2026 Annual Groundwater Monitoring and Corrective Action Report

PLANT McMANUS

Former Ash Pond 1 (AP-1)

Prepared for:

GEORGIA POWER COMPANY

Atlanta, Georgia

Georgia Power

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creative thinking. custom solutions.

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July 31, 2026

Georgia Power Company

2026 Annual Groundwater Monitoring and Corrective Action Report

Plant McManus
Former Ash Pond 1 (AP-1)

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CERTIFICATION STATEMENT

This 2026 *Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company - Plant McManus– Former Ash Pond 1 (AP-1)* has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual 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 EnSafe Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.

EnSafe, Inc.

Signature: Steven B. Hodskins

Steven Hodskins, P.E.

Date: 7-31-26

SUMMARY

This summary of the 2026 Annual Groundwater Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program from July 2025 through June 2026 (the Annual reporting period) at Georgia Power Company's (Georgia Power's) Former Ash Pond (AP) AP-1 at Plant McManus (the Site). This summary was prepared by EnSafe Inc. on behalf of Georgia Power to meet the requirements listed in Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste 391-3-4-.10, and by reference, Part A, Section 6[1] of the U.S. Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant McManus is located at 1 Crispen Island Drive in Glynn County, Georgia, approximately 5.37 miles northwest of the city of Brunswick. The plant property is bordered by the Turtle River to the west and by Burnett Creek to the north. The former AP-1 is located on the northeastern portion of the plant property. The former AP-1 was an approximately 80-acre ash pond that was built in the late 1950's. Ash sluicing operations at AP-1 commenced in 1959 and ceased in 1972. Closure of AP-1 commenced in 2016. As part of closure, AP-1 was dewatered sufficiently to remove the free liquids, and ash was removed and disposed of in an offsite permitted landfill. A certification of removal report demonstrating completion of removal activities was submitted to the Georgia Environmental Protection Division (GA EPD) on November 27, 2019. Based on review of the report and an inspection of AP-1 on December 13, 2019, GA EPD acknowledged the completion of CCR removal on January 10, 2020. The final CCR Permit for the Plant McManus Ash Pond was issued by GA EPD Friday June 18, 2021 (063-030D (CCR)).

Former Ash Pond (AP-1) and the Site.

Groundwater at the Site is monitored using a comprehensive monitoring network that meets federal and state monitoring requirements. Routine sampling and reporting began after the background groundwater conditions were established between August 2016 and May 2018. Based on groundwater conditions at the Site, an assessment monitoring program and assessment of corrective measures were established in August 2019 and July 2020, respectively. An *Assessment of Corrective Measures Report* was subsequently prepared for the former AP-1 (Arcadis, 2020b) and submitted to GA EPD in December 2020. During the semiannual reporting period, the Site remained in assessment monitoring as corrective measures were evaluated. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD in February 2023 with revisions provided on January 18, 2024. Following the approval of GA EPD Watershed and Land Branch approval of the *MCM-06 Pilot Study Workplan* (Arcadis 2024b) on June 26 and August 2, 2024, respectively, a pilot study was initiated at former AP-1 in support of the ongoing remedy selection

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

process. Post-injection performance monitoring was completed in accordance with the *MCM-06 Pilot Study Workplan*. A *Pilot Study Summary Report* was submitted to EPD, dated August 29, 2025, under separate cover. On December 17, 2025, GA EPD issued a letter, concurring with the summary report conclusions. In February 2026, Georgia Power submitted a letter to GA EPD proposing to hold a public meeting, in accordance with 40 CFR §257.96(e), during the second quarter of 2026 to present strategy and accept comments from the public pertaining to the proposed remedy strategy. The public meeting was conducted on May 28th, 2026 at the Brunswick public library in Brunswick, Georgia. Comments collected at the May 2026 Public Meeting will be considered in the remedy screening process to be submitted with the final Remedy Selection Report.

During the 2026 Annual reporting period, EnSafe conducted the semiannual groundwater and surface water sampling events in September 2025 and March 2026. Samples were submitted to GEL Laboratories (GEL) for analysis. Per the CCR rule, groundwater results were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III[2] and Appendix IV[3] constituents in wells provided in the table below.

Appendix III Constituents	**September 2025**	**March 2026**
Boron	MCM-12 and MCM-17	MCM-12 and MCM-17
Calcium	MCM-05 and MCM-06	MCM-05, MCM-06 and MCM-14
pH	MCM-05, MCM-06, MCM-07, MCM-12, MCM-14 and MCM-17	MCM-05, MCM-06, MCM-07, MCM-12, MCM-14 and MCM-17
Appendix IV Parameter[4]	**September 2025**	**March 2026**
Arsenic	MCM-06	MCM-06
Lithium	DPZ-02	DPZ-02

Based on review of the Appendix III and Appendix IV statistical results, the Site will continue in assessment monitoring. An alternate source demonstration (ASD) was approved for lithium at wells MCM-06 and DPZ-02 on May 1, 2023 by GA EPD (Arcadis 2023). Georgia Power will continue routine groundwater monitoring, reporting, and groundwater remedy evaluation at the Site. Reports will be posted to the Georgia Power CCR website and provided to GA 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

[4] An SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent's MCL, if available, the CCR rule specified level (RSL), if no MCL is available, or the calculated background interwell tolerance limit.

TABLE OF CONTENTS

1.0 INTRODUCTION 7
1.1 SITE LOCATION AND DESCRIPTION 7
1.1.1 Regional Geology 8
1.1.2 Site Geology and Hydrogeology 8
1.2 GROUNDWATER MONITORING SYSTEM 9
2.0 GROUNDWATER AND SURFACE WATER MONITORING ACTIVITIES 11
2.1 WELL INSTALLATION, MAINTENANCE, AND ABANDONMENTS 11
2.2 ASSESSMENT MONITORING 11
2.3 ADDITIONAL EVALUATIONS 12
2.4 ASSESSMENT OF CORRECTIVE MEASURES 12
2.5 SURFACE WATER SAMPLING 12
3.0 SAMPLE METHODOLOGY & ANALYSES 14
3.1 GROUNDWATER ELEVATION MEASUREMENT 14
3.2 GROUNDWATER GRADIENT AND HORIZONTAL FLOW VELOCITY 14
3.3 GROUNDWATER SAMPLING 15
3.4 LABORATORY ANALYSES 16
3.5 QUALITY ASSURANCE AND QUALITY CONTROL 16
4.0 STATISTICAL ANALYSIS 18
4.1 METHODS 18
4.1.1 Appendix III Constituents 18
4.1.2 Appendix IV Constituents 18
4.2 STATISTICAL ANALYSES RESULTS 19
5.0 NATURE AND EXTENT 20
6.0 MONITORING PROGRAM STATUS 21
6.1 ASSESSMENT MONITORING STATUS 21
6.2 ASSESSMENT OF CORRECTIVE MEASURES 21
6.3 ANNUAL POTABLE WELL SURVEY 22
7.0 CONCLUSIONS & FUTURE ACTIONS 23
8.0 REFERENCES 24

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TABLES

Table 1 Monitoring Well Network Summary
Table 2 Piezometer Network Summary
Table 3 Summary of Groundwater and Surface Water Elevations
Table 4 Groundwater Event Summary
Table 5 Groundwater Analytical Data Summary
Table 5A Summary of Corrective Action Piezometer Groundwater Analytical Data
Table 6 Surface Water Analytical Data Summary
Table 7 Groundwater Flow Velocity Calculations
Table 8 Summary of Background Levels and GWPS – September 2025
Table 9 Summary of Background Levels and GWPS – March 2026

FIGURES

Figure 1 Site Location Map
Figure 2 Well and Piezometer Location Map
Figure 3 Potentiometric Surface Map – Low Tide September 8, 2025
Figure 4 Potentiometric Surface Map – High Tide September 11, 2025
Figure 5 Potentiometric Surface Map – Low Tide March 10, 2026
Figure 6 Potentiometric Surface Map – High Tide March 11, 2026
Figure 7 Dike ACM Potentiometric Surface Map – Low Tide September 8, 2025
Figure 8 Dike ACM Potentiometric Surface Map – High Tide September 11, 2025
Figure 9 Dike ACM Potentiometric Surface Map – Low Tide March 10, 2026
Figure 10 Dike ACM Potentiometric Surface Map – High Tide March 11, 2026
Figure 11 Surface Water Sample Locations
Figure 12 Arsenic Isoconcentration Map – September 2025
Figure 13 Arsenic Isoconcentration Map – March 2026

APPENDICES

Appendix A Well Installation, Maintenance and Repair Documentation
Appendix B Pilot Study Summary Report
Appendix C Groundwater Laboratory Analytical, Data Validation and Field Sampling Reports
Appendix D Surface Water Laboratory Analytical Results and Field Sampling Reports
Appendix E Statistical Analyses
Appendix F Annual Potable Well Survey

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D; published in 80 FR 21302-21501, April 17, 2015) and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, this *2026 Annual Groundwater Monitoring and Corrective Action Report* has been prepared to document groundwater monitoring activities conducted at Georgia Power Company's (Georgia Power's) Plant McManus Former Ash Pond AP-1 (the Site) and satisfy the requirements of § 257.90(e). To specify groundwater monitoring requirements, Georgia EPD rule 391-3-4-.10(6)(a) incorporates by reference the USEPA CCR rule (40 Code of Federal Regulations [CFR] 257 Subpart D; published in 80 FR 21302-21501, April 17, 2015). For ease of reference, the USEPA CCR rules are cited within this report.

Groundwater monitoring and reporting for the former AP-1 is performed in accordance with the monitoring requirements of 40 CFR 257.90 through 257.95 of the USEPA CCR rule, and Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6).

This report documents annual monitoring activities completed from July 2025 through June 2026 (the reporting period) and includes the required report components in accordance with 40 CFR 257.90(e).

1.1 SITE LOCATION AND DESCRIPTION

The Site is located at 1 Crispen Island Drive in Glynn County, Georgia, approximately 5.37 miles northwest of the city of Brunswick. The plant property is bordered by the Turtle River to the west and by Burnett Creek to the north. The former AP-1 is located on the northeastern portion of the plant property (Figure 1).

The former AP-1 was an approximately 80-acre ash pond that was built in the late 1950's. Ash sluicing operations at AP-1 commenced in 1959 and ceased in 1972. Closure of AP-1 commenced in 2016. As part of closure, AP-1 was dewatered sufficiently to remove the free liquids, and ash was removed and disposed of in an off-site, permitted landfill. A certification of removal report demonstrating completion of removal activities was submitted to GA EPD on November 27, 2019. Based on review of the report and an inspection of AP-1 on December 13, 2019, GA EPD acknowledged the completion of CCR removal on January 10, 2020. The final CCR Permit (No. 063-030D(CCR)) for the Plant McManus Ash Pond was issued by GA EPD on June 18, 2021. A 5-year Permit Review document package was submitted to GA EPD on December 12th, 2025, and subsequently approved on April 17th, 2026. The former AP-1 is monitored by an on-site network of piezometers and wells to define groundwater elevation, flow direction, and monitor groundwater condition. The locations of the wells and piezometers are shown on Figure 2; well and piezometer construction details are listed in Tables 1 and 2, respectively.

1.1.1 Regional Geology

The aquifer systems in Brunswick, Glynn County, GA are: (1) the surficial aquifer, (2) the Brunswick aquifer (Upper and Lower) and (3) the Floridan aquifer system (Upper and Lower). The Floridian aquifer system can extend to depths beyond 2,000 feet or more (Clark et al. 1990, Maslia and Prowell,1990; Jones et.al 2002). The uppermost regional aquifer is the surficial aquifer. In the Brunswick area, this aquifer extends to a depth of approximately 180 feet. Although the surficial aquifer is defined on a regional scale as extending to approximately 180 feet below ground surface, Clarke et al. (1990) acknowledge that localized lower permeability units can create confined or semi-confined conditions within limited areas of the surficial aquifer (ATC Associates Inc., 1997).

Regionally, the surficial aquifer is composed of geologic formations overlying the Hawthorn Formation. These formations include the Satilla, Charlton, and Raysor Formations, as well as undifferentiated Holocene, Pleistocene, Pliocene and late-Miocene deposits. In the Brunswick area, the Satilla is described as extending to approximately 28 feet below ground surface and the Cypresshead to approximately 50 feet below ground surface. Underlying the Satilla and Cypresshead Formations are sands, gravels, and clays which have been described by Weems and Edwards (2001) as two pairs of alternating confining units and water-bearing zones of the Ebenezer Formation. These alternating units of the Ebenezer Formation are described as an uppermost confining unit extending from approximately 50 to 75 feet below ground surface, followed by a water-bearing zone from approximately 75 to 110 feet below ground surface, another confining unit from approximately 110 to 150 feet below ground surface, and then another water-bearing zone from approximately 150 to 185 feet below ground surface. Depositionally, these sediments represent marginal to shallow marine beds, that are overlain by marine terrace deposits. Fluvial or residual deposits overlay the terrace deposits (Miller, 1986; Clarke et al, 1990).

The regional surficial aquifer is underlain by approximately 90 feet of lower-permeability portions (Miocene Unit A) of the Hawthorn Formation. This stratum forms the upper confining bed for the Brunswick aquifer system. The Brunswick aquifer system is composed of two confined aquifers (the Upper Brunswick aquifer and the Lower Brunswick aquifer) which are separated and confined above and below by less permeable units of the Hawthorn Formation. The Upper Brunswick aquifer extends from approximately 270 feet to 350 feet below ground surface, and the Lower Brunswick aquifer extends from approximately 400 feet to 470 feet below ground surface (Clarke *et al*, 1990).

1.1.2 Site Geology and Hydrogeology

Based on information collected during subsurface investigations, Plant McManus is underlain by very fine sands and clays from land surface (or beneath a shallow fill layer) to depths ranging from 33 to 43 feet below land surface. Very fine sands are predominant, but discontinuous clay layers of varying thickness were encountered during drilling activities. The clay layers varied from less than one inch to approximately ten feet in thickness. These very fine sands and discontinuous clay layers are interpreted to be the Upper Satilla Formation (ATC Associates, Inc., 1997).

Underlying the Upper Satilla Formation are fine to medium sands with greater silt content, and apparently lower permeability, than the sands of the Upper Satilla. These siltier sands, which were interpreted to be the Lower Satilla Formation, were encountered at depths greater than 35 feet below ground surface during the Site investigation performed in the 1990s (ATC Associates Inc., 1997). These sands may also correspond to the Cypresshead Formation of Huddleston (1988). Sands and clays below the Cypresshead and above the confining unit of the Brunswick aquifer system have been described by Weems and Edwards (2001) as two pairs of alternating confining units and water-bearing zones of the Ebenezer Formation, extending from approximately 50 to 185 feet below ground surface in the Brunswick area.

The regional surficial aquifer that contains the Upper and Lower Satilla Formations is underlain by approximately 90 feet of lower-permeability portions (Miocene Unit A) of the Hawthorn Formation. This stratum forms the upper confining bed for the Brunswick aquifer system.

The surficial aquifer underlying the mainland, marsh, and island is composed of the very fine to fine grain sand with discontinuous clay layers of the Upper and Lower Satilla Formation. In the marsh, the groundwater elevation at low tide is below the top of the marsh surface. The upper portion of the aquifer in the marsh has been cut by tidal creeks, which meander through the marsh. In addition to current and historically recent (pre-ash pond construction) tidal channels, the marsh is also likely to have paleo (pre-historic) tidal channels present throughout the upper portion of the aquifer in the marsh area, which may provide zones of higher hydraulic conductivity or isolated pockets of groundwater. Vertically, the Satilla formation fines downward to a silty fine sand of the Lower Satilla Formation. The aquifer is generally unconfined, with localized clay layers. Groundwater flowing within the surficial aquifer is separated from deeper aquifers by approximately 90 feet of lower-permeability portions of the Hawthorn Formation (Miocene Unit A) that form the upper confining bed for the Brunswick aquifer system (Clarke et al, 1990).

Groundwater flows from two directions toward the former AP-1. One groundwater flow component originates on the mainland, northeast of the facility, and flows southwest, while the other flow component originates on Crispen Island and flows north and northeast (Figures 3-10). Groundwater elevations in the monitoring wells on the mainland (MCM-02, -15, and -16) and on the island (MCM-08, and -11) have consistently exhibited higher groundwater elevations than the monitoring wells and piezometers installed along the dikes (Table 3), with MCM-01 and -04 exhibiting intermediate elevations between the mainland and dike wells. The potentiometric surface of the surficial aquifer and the resultant groundwater flow direction in the vicinity of the former AP-1 is a reflection of the topography of the mainland, Crispen Island, and the tidal marsh surrounding the area.

1.2 GROUNDWATER MONITORING SYSTEM

Pursuant to § 257.91, Georgia Power installed a groundwater monitoring system within the uppermost aquifer around former AP-1. The monitoring system is designed to monitor groundwater passing the waste boundary of the former AP-1 within the uppermost aquifer. As

part of the assessment monitoring program, DPZ-02, an assessment monitoring well, was added to the program during the 2020 semiannual monitoring period to vertically characterize the nature and extent of groundwater downgradient of former AP-1.

An on-site network of piezometers is used to gauge water levels to define groundwater flow direction and gradients. The piezometers may be sampled as needed to support the Assessment of Corrective Measures (ACM) program.

The construction and location of the detection monitoring wells, assessment wells, and piezometers are shown on Tables 1 and 2 and Figure 2.

2.0 GROUNDWATER AND SURFACE WATER MONITORING ACTIVITIES

As required by § 257.90(e), the following describes monitoring-related activities performed during the reporting period and discusses any change in status of the monitoring program.

2.1 WELL INSTALLATION, MAINTENANCE, AND ABANDONMENTS

Monitoring wells are inspected semiannually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In September 2025 and March 2026, monitoring wells were inspected, necessary corrective actions were identified and subsequently completed, as documented in Appendix A. In summary, maintenance activities for this reporting period included:

- Visual inspection of well conditions prior to sampling, recording Site conditions, and performing exterior maintenance to perform sampling under safe and clean conditions.
- Replacement AquaTroll 200 transducer installed in MCM-06 in September 2025 after faulty unit was removed.
- Replacement AquaTroll 200 transducers installed in PT-01 and PT-04D in March 2026 after faulty units were removed.

On October 10, 2025, GA EPD approved a *Request for Minor Modification to Update Groundwater Monitoring Network* submitted by Georgia Power to abandon 18 piezometers and to remove an additional 10 piezometers from the groundwater monitoring network that were previously used for routine water level gauging. Abandonment procedures began on October 13, 2025 and concluded on October 17, 2025. *Well Abandonment Report, Plant McManus Former Ash Pond 1,* was submitted on December 3, 2025 and is included in Appendix A. A 5-Year Permit Review document package was submitted to Georgia EPD on December 12th, 2025, and subsequently approved on April 17th, 2026 with the updated groundwater monitoring network.

The well maintenance and repair documentation from July 2025 through June 2026 is presented in Appendix A.

2.2 ASSESSMENT MONITORING

Based on results of the August 2019 *Annual Groundwater Monitoring and Corrective Action Report*, assessment monitoring was initiated at the Site. Currently identified SSLs of Appendix IV constituents exceeding their respective Groundwater Protection Standard (GWPS) at former AP-1 include arsenic in MCM-06 and lithium in DPZ-02. An alternate source demonstration (ASD) was approved by GA EPD for lithium at wells MCM-06 and DPZ-02 on May 1, 2023 (Arcadis, 2023).

Plant McManus entered Assessment Monitoring and Assessment of Corrective Measures in 2019 and 2020, respectively. Following the evaluation of several potential remedies, geochemical injections were proposed in the 2023/2024 *Draft Remedy Selection Report* (Arcadis, 2023).

Following EPD concurrence, pilot testing was completed on site and results submitted to EPD in 2025.

With EPD's consent and as required by the CCR Rules, Georgia Power held a Public Meeting requesting community input on the proposed remedy on May 28th, 2026. Comments collected during the public comment process will be considered in the upcoming final Remedy Selection Report and submitted to GA EPD for review. In accordance with § 257.96(b), groundwater continues to be monitored at the former AP-1 under the assessment monitoring program while the ACM phase is implemented.

Pursuant to § 257.95(b), the monitoring wells of the certified compliance monitoring network were sampled for the complete list of Appendix III and Appendix IV parameters during the monitoring event conducted in September 2025 and March 2026 (Table 4). A summary of the analyses collected is provided in Table 5. Details of these events and analytical results are discussed in Section 3, with the field sampling and calibration reports and laboratory analytical reports presented in Appendix C. The statistical results are discussed in Section 4.

2.3 ADDITIONAL EVALUATIONS

Groundwater samples were collected from MCM-05 and MCM-06 during the September 2025 monitoring event and were analyzed for iron and sulfide. During the March 2026 monitoring event, groundwater samples were collected from all monitoring wells and analyzed for iron, magnesium, potassium, and sodium; additional samples from MCM-05 and MCM-06 were also collected and analyzed for sulfide. A supplemental groundwater sample was collected from MCM-06 and analyzed for arsenic in June 2026 and will be included in the next semi-annual report. These samples were collected in support of evaluating, as necessary, the geochemical composition of the groundwater at the Site. The laboratory reports associated with the September and March data are provided in Appendix C.

2.4 ASSESSMENT OF CORRECTIVE MEASURES

Corrective action piezometers (INW-01, DR-02, DR-03, PT-01, PT-02, PT-03) were sampled during the 2025 annual reporting period to collect data supporting future corrective action. Groundwater samples were analyzed for arsenic, iron, and sulfide. A summary of the analytical results from corrective action piezometers is presented in Table 5A. Refer to Section 6.2 for details of the Assessment of Corrective Measures.

2.5 SURFACE WATER SAMPLING

To assess horizontal delineation of arsenic, Georgia Power has proactively completed additional sampling to assess concentrations of arsenic in surface water in the tidal salt marsh since February 2020. Surface water samples are collected in accordance with USEPA Region 4 Science and Ecosystem Support Division (SESD), Operating Procedure, Surface Water Sampling SESDPROC-201-R6 (April 22, 2023).

September 2025 and March 2026 Sampling

In September 2025 and March (May) 2026, surface water samples were collected during high tide (HT, HTS) from each point along Transect 2 (T2) (Figure 11). Low tide surface water samples (LT) were collected from T2 at the fourth location (i.e., T2-4LT). Background samples were collected at high tide background location BG-2HT, located in the Turtle River, north of its confluence with Gibson Creek, and low tide background location BG-1LT, in Cowpen Creek, north of its confluence with Burnett Creek.

For the March 2026 event, the reporting limit and method detection limit values reported by the laboratory for arsenic exceeded historical reporting standard requirements due to dilution factors associated with matrix interference upon analysis at GEL. A resample event was completed on May 14th, 2026 for all surface water sample locations and the samples were submitted to Eurofins for analysis. All results from the May 2026 sampling event met reporting standard requirements.

Surface water collected during the events was analyzed for arsenic, Appendix III parameters, and additional geochemical parameters (magnesium, potassium, sodium, alkalinity). The laboratory reports associated with the surface water sampling events are provided in Appendix D and a summary of the results are presented in Table 6. Surface water data from this reporting period are consistent with historical results. Surface water sampling will continue on a semiannual basis to support ongoing assessment monitoring.

3.0 SAMPLE METHODOLOGY & ANALYSES

The following sections describe the methods used to conduct groundwater and surface water monitoring, as well as the sampling results that were obtained from sampling events at the former AP-1 during the reporting period.

3.1 GROUNDWATER ELEVATION MEASUREMENT

Prior to each sampling event, groundwater levels were recorded from piezometers and monitoring wells in the network at the former AP-1. Groundwater measurements were taken from transducers installed in 16 wells (MCM-01, -02, -04 through -07, -11, -12, -14 through -20, and DPZ-02) and 9 piezometers (MCM-08, MCM-10, PZ-09, PZ-11, DPZ-01, DPZ-03, PT-01, PT-02 and PT-04D). When other wells and piezometers in the network are utilized for potentiometric surface maps, they are gauged by hand using a Heron water level indicator. Groundwater elevations calculated during the September 2025 and March 2026 monitoring events are summarized in Table 3. Groundwater elevation data was used to develop a high tide and low tide potentiometric surface elevation contour map for each event (Figures 3-10). Groundwater flow at the Site is discussed in Section 1.1.

During the September 2025 sampling event, the transducer for former AP-1 was inoperable, and no elevation measurements could be collected. Therefore, the surface water elevation of former AP-1 during the September 2025 event is not depicted on the potentiometric surface maps (Figures 3, 4, 7, 8, and 12). The surface water monitor was replaced in November 2025 and an accompanying stage gauge to prevent this occurrence in the future.

3.2 GROUNDWATER GRADIENT AND HORIZONTAL FLOW VELOCITY

The horizontal groundwater flow velocity at the former AP-1 was calculated using a derivation of Darcy's Law. Specifically,

$$V = \frac{K * i}{\eta_e}$$

Where:

$V =$ Groundwater flow velocity $\left(\frac{feet}{day}\right)$

$K =$ Average Hydraulic Conductivity $\left(\frac{feet}{day}\right)$

$i =$ Horizontal hydraulic gradient $\left(\frac{feet}{feet}\right)$

$\eta_e =$ Effective porosity

Horizontal groundwater flow velocities were calculated for two well pairs at high and low tide using groundwater elevations collected on September 8, 2025, September 11, 2025, March 10, 2026 and March 11, 2026. Groundwater flow velocities representing groundwater historically flowing

from the mainland to former AP-1 (between MCM-16 and MCM-02) and from the island to former AP-1 (between MCM-11 and MCM-12) are presented in Table 7.

Groundwater flow between MCM-16 and MCM-02 was 0.013 feet per day (ft/day) at low tide and 0.011 ft/ day at high tide in September 2025, while groundwater flow between MCM-11 and MCM-12 was 0.029 ft/ day at both low tide and high tide. During the September 2025 event, the gradient was positive (approximately 0.03 ft/day), indicating a flow from MCM-16 toward MCM-02. As described in Section 3.1, the former AP-1 pond level transducer malfunctioned during the September 2025 sampling event and no surface water elevation could be obtained. Based on tidal elevation being greater than groundwater elevations on the dikes, it appears the groundwater flow is inward towards the pond. Additionally, the pond effluent is now equipped with a floating weir to manage pond level and allows for surface water/pond water exchange. The overall groundwater conditions at the pond still appear to yield a net outward flow given the periodicity and extent of the tidal conditions compared to adjacent monitoring well groundwater elevations. Additional water level gauging during the March 2026 event displayed a similar gradient from the mainland to the pond, with a groundwater flow velocity of 0.006 ft/day at high tide and 0.011 ft/day at low tide between MCM-16 and MCM-02. Groundwater flow between MCM-11 and MCM-12 during the March 2026 event was recorded at 0.028 ft/day at low tide and 0.026 ft/day at high tide. Groundwater flow between MCM-11 and MCM-18 during the March 2026 event was calculated to be 0.023 ft/day at both low and high tides. A groundwater flow outward from the pond was observed during the March 2026 event at both high and low tide.

Groundwater elevation fluctuations along the western dike have been previously observed due to the tidal influence interaction between the marsh-side surface water and groundwater well elevations. Previous groundwater observations have displayed an approximate 40-minute delay from when surface water reaches its greatest elevation until groundwater elevations are influenced. The groundwater gradient from MCM-11 to MCM-12 indicates a groundwater flow direction from the island to the marsh at both high and low tides. For September 2025, groundwater flow velocities were 4.19 (MCM-16 to -02) and 10.51 (MCM-11 to -12) feet per year (ft/yr) at high tide and 4.66 (MCM-16 to -02) and 10.67 (MCM-11 to -12) ft/yr at low tide. For March 2026, groundwater flow velocities were 2.33 (MCM-16 to -02) and 9.58 (MCM-11 to -12) feet per year (ft/yr) at high tide and 4.19 (MCM-16 to -02) and 10.28 (MCM-11 to -12) ft/yr at low tide. Similarly, the groundwater gradient from MCM-11 to MCM-18 indicates a groundwater flow direction from the island towards the marsh at both high and low tides. For March 2026, groundwater flow velocities were 8.43 (MCM-11 to -18) feet per year (ft/yr) at high tide and 8.39 (MCM-11 to -18) ft/yr at low tide

3.3 GROUNDWATER SAMPLING

Groundwater samples were collected from the compliance well network and select piezometers using low-flow sampling procedures in accordance with § 257.93(a). Purging and sampling were performed using a peristaltic pump with the intake tubing lowered to the midpoint of the well screen (or as appropriate determined by the water level). QED dedicated pumps are utilized in monitoring wells MCM-01, MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, MCM-15, MCM-16,

and MCM-17. Non-disposable equipment was decontaminated before use and between well locations.

An AquaTroll 400 (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, dissolved oxygen (DO), temperature, and oxidation reduction potential [ORP]) during well purging to verify stabilization prior to sampling. Turbidity was monitored using a LaMotte 2020we (or similar) 1970-USEPA and ISO Compliant Model turbidity meter.

Groundwater samples were collected when the following stabilization criteria were met:

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

Once stabilization was achieved, samples were collected in appropriately preserved laboratory-supplied containers and placed in ice-packed coolers. No filtered samples were collected during this reporting period for Appendix III and IV analyses.

Upon completion of the sampling events in September 2025 and March 2026, samples were submitted to GEL for Appendix III and IV analysis and Eurofins for sulfide analysis. Sample submittals followed chain-of-custody protocol. The field sampling forms generated during this reporting period are included in Appendix C.

3.4 LABORATORY ANALYSES

Laboratory analysis was performed by GEL and Eurofins, which are accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all Appendix III and Appendix IV constituents and geochemical parameters analyzed for this project.

The groundwater analytical results from this reporting period are summarized in Table 5 and 5A, and the laboratory analytical reports are provided in Appendix C. The surface water results for the reporting period are summarized in Table 6, and the laboratory analytical reports are provided in Appendix D. The pH field measurements recorded during the groundwater and surface water sampling events are also provided in Tables 5, 5A, and 6, respectively.

3.5 QUALITY ASSURANCE AND QUALITY CONTROL

During each sampling event, quality assurance/quality control samples (QA/QC) are collected at a rate of at least one set of field blanks (FB), field equipment rinsate blanks (EB), and duplicate

(FD) samples per every 10 samples collected. QA/QC sample data were evaluated during groundwater data validation (as described below) and are included in Appendix C.

Groundwater quality data for the assessment events were independently validated by Environmental Standards in accordance with USEPA guidance (USEPA, 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences (RPDs), post digestion spikes, laboratory and field duplicate RPDs, field and equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags are applied to the data using USEPA procedures as guidance (USEPA, 2017). Based on the data validation, the data collected during the reporting period are acceptable for meeting project objectives. The associated data validation results are provided in Appendix C with the laboratory reports.

4.0 STATISTICAL ANALYSIS

Statistical analysis of the reporting period groundwater monitoring data was performed by Groundwater Stats Consulting, LLC (GSC), following the *Groundwater Monitoring Plan, 5-Year Permit Review* (EnSafe, 2025). The reports generated from the statistical analyses are provided in Appendix E (GSC, 2025, 2026). A summary of methods and results is provided in the following sections.

4.1 METHODS

The statistical method used at the Site was developed by GSC using methodology presented in Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 2009, US EPA 530/ R-09-007 (US EPA, 2009). To develop the statistical methods, analytical data collected during the background period were evaluated and used to develop statistical limits for each Appendix III and IV parameter. Sanitas groundwater statistical software was used to screen the data and perform the statistical analyses. Sanitas is a decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by US EPA regulations.

Appendix III statistical analysis was performed to determine if Appendix III constituents have returned to background levels. Appendix IV constituents were evaluated to determine if concentrations statistically exceeded the established GWPS. Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in the statistical analysis reports provided in Appendix E and summarized in Sections 4.1.1 and 4.1.2.

4.1.1 Appendix III Constituents

The statistical test used to evaluate the groundwater monitoring data was the interwell prediction limit (PL) method for Appendix III constituents (boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids [TDS]) combined with the option of a 1-of-2 verification resampling strategy. Interwell prediction limits, constructed from all available pooled upgradient well data were used to evaluate the most recent compliance sample from each downgradient well reported during the September 2025 and March 2026 sampling events.

If data from a sampling event initially exceeds the PL, the resampling strategy may be used to verify the result. In 1-of-2 resampling, one independent resample may be collected and evaluated within 90 days to determine whether the initial exceedance is verified. If the resample exceeds the PL, the initial exceedance is verified, and an SSI is determined. When the resample result does not verify the initial result, there is no SSI. If resampling is not performed, the initial exceedance is a confirmed exceedance.

4.1.2 Appendix IV Constituents

To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix IV constituents in each downgradient detection and assessment

monitoring well with a minimum of four samples. In accordance with Section 21.1.1 of the Unified Guidance (USEPA, 2009), four independent data are the minimum population size recommended to construct confidence intervals required to assess SSLs for Appendix IV constituents. Due to supplemental (or ACM investigation) sampling, some Appendix IV constituents at a well location have differing number of analytical data points.

The confidence intervals are compared to the GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its GWPS. If a confidence interval exceeds a GWPS, an SSL exceedance is identified. GWPS were established for statistical comparison of Appendix IV constituents and are presented in Tables 8 and 9.

4.2 STATISTICAL ANALYSES RESULTS

Based on review of the full Appendix III statistical analysis discussion presented in Appendix E, groundwater conditions have not returned to background and assessment monitoring should continue. Review of the Sanitas results indicates that using the GWPS established according to both 40 CFR §257.95(h) and 391-3-4-.10(6)(a), the following Appendix IV SSLs were identified during the current reporting period:

<u>September 2025 Assessment Monitoring Event</u>
AP-1 (Federal and GA EPD CCR Rule):

- Arsenic: MCM-06
- Lithium: DPZ-02

<u>March 2026 Assessment Monitoring Event</u>
AP-1 (Federal and GA EPD CCR Rule):

- Arsenic: MCM-06
- Lithium: DPZ-02

An ASD was approved for lithium at MCM-06 and DPZ-02 by GA EPD on May 1, 2023 (Arcadis 2023).

Based on EPD guidance, groundwater trends at wells with SSLs were further evaluated by GSC using the Sen's Slope/Mann Kendall trend tests. Statistically-significant decreasing trends were identified for arsenic at MCM-06 and lithium at DPZ-02 following the September 2025 and March 2026 groundwater sampling events. Trends will continue to be evaluated as data is collected in future monitoring events. The full report generated from the analyses is provided in Appendix E.

5.0 NATURE AND EXTENT

The SSL previously identified for arsenic at MCM-06 is vertically delineated below the GWPS by assessment well DPZ-02.

As described in Section 2.3.2, to assess horizontal delineation of arsenic, Georgia Power proactively collected surface water samples from along Transect T2 in the tidal marsh adjacent to well MCM-06 of former AP-1. Arsenic was not detected above the Georgia instream water quality standard for dissolved arsenic for marine estuary environments (0.036 mg/L) using a laboratory reporting limit of 0.005 mg/L in surface water samples collected to date (Table 6); therefore, no impacts to surface water have been detected and horizontal delineation is complete.

The groundwater data from the September 2025 and March 2026 assessment monitoring events was used to generate the arsenic iso-concentration maps presented on Figures 12 and 13, respectively. Additional data from performance monitoring events that were utilized to create these maps can be found in Appendix C.

6.0 MONITORING PROGRAM STATUS

6.1 ASSESSMENT MONITORING STATUS

Pursuant to 40 CFR 257.96(b), Georgia Power will continue to monitor the groundwater at the former AP-1 in accordance with the assessment monitoring program regulations of 40 CFR 257.95 as corrective measures to address arsenic in MCM-06 are evaluated. Pursuant to § 257. 95(g)(1)(iv), the assessment wells will continue to be sampled as part of the ongoing semiannual assessment groundwater monitoring program.

6.2 ASSESSMENT OF CORRECTIVE MEASURES

A *Draft Remedy Selection Report* was submitted to GA EPD on February 28, 2023 (Arcadis 2023). A revision to the *Draft Remedy Selection Report* was submitted on January 18, 2024 (Arcadis 2024) to correct a typographical error. The *Draft Remedy Selection Report* was submitted under a separate cover. The report summarizes:

(i) the current conceptual site model applicable to evaluating groundwater corrective measures proposed in the ACM Report (Arcadis, 2020b);
(ii) an evaluation of each corrective measure retained for further consideration following the completed investigations; and,
(iii) an evaluation of corrective measure options using the comparative criteria such as long-term and short-term effectiveness and protectiveness, source control effectiveness, and ease of implementation. The *Draft Remedy Selection Report* presents geochemical approaches (in-situ injections) as the proposed groundwater remedy for former AP-1.

In the interim of GA EPD's review of the *Draft Remedy Selection Report*, the state agency issued a letter on February 16, 2024, stating their support for Georgia Power to initiate a pilot study at the former AP-1 to facilitate further remedy design. As discussed in Section 2.3.1, Georgia Power collected baseline data from wells prior to implementation of a remedial action pilot study. Georgia Power submitted a pilot study workplan and in situ injection request to GA EPD on April 30, 2024 that summarizes the baseline data collected to date, treatability study results, and additional data to support corrective action design. The GA EPD Watershed Protection Branch approved the UIC request in a letter dated June 26, 2024. The GA EPD Land Protection Branch approved the implementation of the pilot study in a letter dated August 2, 2024. Post-injection monitoring was completed in April 2025, and Georgia Power submitted a Pilot Study Summary Report as a stand-alone document, dated August 29, 2025. The report provided a summary of the pilot study activities and performance results, which can be found in Appendix B. GA EPD issued a letter on December 17, 2025, concurring with the summary report conclusions.

In February 2026, Georgia Power submitted a letter to GA EPD proposing to hold a public meeting, in accordance with 40 CFR §257.96(e), in the second quarter of 2026 to present the proposed remedial strategy at AP-1. The public meeting was held May 28, 2026 at the Brunswick

public library. Comments collected at the May 2026 Public Meeting will be considered in the remedy screening process to be submitted with the final Remedy Selection Report. Monitoring of corrective action piezometers continued during the 2025 annual reporting period to collect data supporting future corrective action. The groundwater analytical results from September 2025 and March 2026 corrective action piezometers are summarized in Table 5A; the laboratory reports and field logs associated with these results are provided in Appendix C.

6.3 ANNUAL POTABLE WELL SURVEY

As requested by EPD, a survey of water wells has been conducted within a two-mile radius from the site. The survey incorporated records from federal, state, and county sources cited in previously completed well surveys and additional data identified during the annual update. A current Environmental Data Resources (EDR) GeoCheck® Report is included in Appendix F. The wells identified were consistent with previous well surveys with the following updates. In 2025, existing data were compared to water meter locations provided on the recently published Brunswick-Glynn Joint Water & Sewer Commission (BGJWSC) Service Line Inventory Map. Approximately 250 developed parcels were identified as not having a BGJWSC water meter. A BGJWSC representative confirmed that the Service Line Inventory Map is up to date as of the 2024 reporting period and water meter data are representative of properties currently serviced by the commission. BGJSCW further confirmed that properties that do not have a water meter are serviced by a private or community well. The figure in Appendix F has been updated to correspond with the BGJWSC service line inventory.

7.0 CONCLUSIONS & FUTURE ACTIONS

This *2026 Annual Groundwater Monitoring and Corrective Action Report for Georgia Power's Plant McManus Former Ash Pond 1 (AP-1)* was prepared to fulfill the requirements of USEPA's CCR Rule and GA EPD rule 391-3-4-.10(6)(c). Statistical evaluations of the groundwater monitoring data from the September 2025 and March 2026 events at the former AP-1 identified the continued presence of SSLs for arsenic in detection well MCM-06 and lithium in assessment well DPZ-02. The lithium SSL in DPZ-02 has been addressed by an ASD with final approval from EPD on May 1, 2023. The arsenic SSL in MCM-06 is vertically delineated below the GWPS by DPZ-02. Surface water data along Transect 2 (T2) will continue to be collected as needed and analyzed for arsenic semiannually and reported in semiannual and annual groundwater monitoring reports. Arsenic was not detected above the Georgia instream water quality standard for dissolved arsenic for marine estuary environments in surface water samples collected to date; therefore, no impacts to surface water have been detected and horizontal delineation is complete.

Georgia Power will continue to monitor groundwater in the vicinity of former AP-1 under the current assessment monitoring program and adaptively manage the Site as new data become available. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on February 28, 2023. In the interim of GA EPD's review of the *Draft Remedy Selection Report*, the state agency issued a letter on February 16, 2024, stating their support for Georgia Power to initiate a pilot study at the former AP-1 to facilitate further remedy design. Georgia Power submitted a *Pilot Study Work Plan* and Pilot Test Notification Form for EPD review prior to initiating pilot testing. Pilot study injections activities were performed from August 13 to August 20, 2024 and post-injection performance monitoring has been implemented and completed. Georgia Power submitted a comprehensive *Pilot Study Summary Report*, dated August 29, 2025, as a stand-alone document which provided findings and recommendations for the design and implementation of the full-scale remedy. GA EPD issued a letter on December 17, 2025, concurring with the summary report conclusions. In February 2026, Georgia Power submitted a letter to GA EPD proposing to hold a public meeting in the second quarter of 2026 to present the proposed remedial strategy at AP-1. The public meeting was performed on May 28, 2026 outlining the proposed remedial strategy and allowed for the submittal of public comments . Comments collected at the May 2026 Public Meeting will be considered in the remedy screening process to be submitted with the final Remedy Selection Report.

The next routine semiannual assessment monitoring event for former AP-1 is scheduled for September 2026.

8.0 REFERENCES

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TABLES

Table 1
Monitoring Well Network Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn 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
MCM-01	Detection	Upgradient	443727.31	852732.08	5.70	8.63	-7.93	-17.93	27.32	SP	07/07/2016
MCM-02	Detection	Upgradient	444496.53	852663.64	8.25	11.25	-5.22	-15.22	27.35	SP	07/06/2016
MCM-04	Detection	Downgradient	444804.73	851695.27	9.50	12.39	-5.18	-15.18	28.57	SP	06/30/2016
MCM-05	Detection	Downgradient	444716.63	851309.91	7.80	10.04	-7.25	-17.25	28.05	SW	07/09/2016
MCM-06	Detection	Downgradient	444407.22	850782.11	7.87	10.15	-6.27	-16.27	27.20	SP	07/08/2016
MCM-07	Detection	Downgradient	444059.38	850195.96	7.52	10.20	-2.76	-12.76	23.75	SP	07/08/2016
MCM-11	Detection	Upgradient	442429.80	851072.91	7.52	10.23	-3.34	-13.34	24.00	SP	07/12/2016
MCM-12	Detection	Downgradient	442821.17	851312.45	8.99	11.87	-6.12	-16.12	29.00	SP	07/12/2016
MCM-14	Detection	Downgradient	443358.82	852317.59	8.66	11.50	-6.23	-16.23	28.11	SP	07/09/2016
MCM-15	Detection	Upgradient	444825.53	851949.02	10.18	12.84	-4.53	-14.53	26.60	SP	06/30/2016
MCM-16	Detection	Upgradient	444551.32	852716.60	13.04	16.02	-1.72	-11.72	28.39	SP	07/06/2019
MCM-17	Detection	Downgradient	443074.41	851899.68	9.09	11.49	-5.62	-15.62	27.44	SC	09/29/2016
MCM-18	Detection	Upgradient	442067.07	851698.41	6.01	9.00	-8.76	-18.76	27.86	SP	10/30/2019
MCM-19	Detection	Upgradient	441157.82	852338.86	5.77	8.71	-9.53	-19.53	28.32	SP	10/30/2019
MCM-20	Detection	Upgradient	440944.40	852185.15	7.07	10.07	-2.98	-12.98	23.05	SP	10/30/2019
DPZ-02	Assessment	Downgradient	444391.02	850757.94	7.34	9.54	-28.84	-33.84	43.46	SP	03/10/2020

Notes:

Elevations shown are in datum NAVD88, which indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.

Georgia State Plane NAD83 East Zone referenced for horizontal datum.

Survey points measured from nail or known reference point.

Well screen elevations are calculated by subtracting the depths to top and bottom of the well screen from the ground surface elevation.

Groundwater screened zone uses USCS designations for soil type.

Table 2
Piezometer Network Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

Well ID	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
MW-01R	Upgradient	443612.59	852690.25	9.91	12.40	-0.04	-15.04	27.44	SM	01/20/2009
MW-02	Downgradient	443349.44	852303.86	8.27	10.95	-0.85	-15.85	26.80	SP	09/11/1996
MW-03	Downgradient	443083.39	851911.86	8.81	11.17	-0.83	-15.83	27.00	SP	09/11/1996
MW-04	Downgradient	442850.60	851411.19	6.43	9.17	-3.23	-18.23	27.40	SP	09/11/1996
MW-05	Upgradient	442565.17	850741.75	10.53	13.29	0.69	-14.31	27.60	SP	09/11/1996
MW-06R	Upgradient	442413.05	850563.17	10.36	13.36	3.36	-6.64	20.00	SM	03/06/2018
MW-07	Upgradient	442815.97	850259.66	7.87	9.72	3.22	-11.78	21.50	SC	09/16/1996
MW-09	Downgradient	443747.22	849935.65	6.94	9.81	0.61	-14.39	24.20	SP	09/10/1996
MW-10	Downgradient	444057.81	850184.95	7.60	10.27	-1.83	-16.83	27.10	SC	09/05/1996
MW-11	Downgradient	444358.91	850694.98	7.66	10.27	-6.93	-21.93	32.20	SP	09/10/1996
MW-12	Downgradient	444635.59	851177.23	7.29	9.74	-7.56	-22.56	32.30	SP	09/10/1996
MCM-03*	Upgradient	444414.88	851984.67	7.10	9.97	-7.73	-17.73	27.70	SP	07/06/2016
MCM-08	Downgradient	443758.80	849716.96	6.55	9.42	-1.84	-11.84	28.29	SP	07/11/2016
MCM-10	Upgradient	442791.88	850453.05	8.61	11.75	-1.25	-11.25	23.96	SC	07/11/2016
MCM-13*	Downgradient	443030.23	851826.19	9.79	12.56	-4.90	-14.90	27.46	SM	07/09/2016
PZ-09	Downgradient	444082.13	849471.64	6.57	9.41	-4.56	-14.56	24.05	SP	10/31/2019
PZ-10*	Downgradient	444949.09	851673.98	9.74	12.17	-0.26	-10.26	22.91	SP	11/01/2019
PZ-11	Downgradient	443222.86	849280.51	6.57	9.37	-4.63	-9.63	19.08	SC	11/22/2019
PZ-12*	Downgradient	443593.34	849396.87	5.02	7.90	-5.72	-10.72	18.70	SP	11/22/2019
DPZ-01	Downgradient	444695.71	851277.40	7.36	9.71	-25.99	-30.99	40.78	SP	03/10/2020
DPZ-03	Downgradient	444073.16	850218.83	7.04	9.46	-33.03	-38.03	47.57	SP	03/11/2020
DPZ-04*	Downgradient	443062.60	851881.94	8.96	11.45	-34.70	-39.70	51.23	SP	03/12/2020
DPZ-05*	Downgradient	443376.32	852342.11	8.60	11.00	-35.12	-40.12	51.20	SP	03/11/2020
DPZ-06*	Upgradient	444614.79	851846.27	9.59	12.04	-23.38	-28.38	40.50	SP	03/12/2020
RW-1*	Downgradient	444093.78	850251.19	7.64	9.46	-6.96	-16.96	26.42	CL	04/20/2017
RW-2*	Downgradient	444161.86	850367.10	7.29	9.76	-7.51	-17.51	27.27	CL	04/20/2017
RW-3*	Downgradient	444228.54	850479.64	7.23	9.69	-12.60	-22.60	32.29	SP	04/21/2017
RW-4*	Downgradient	444299.42	850599.01	7.40	9.43	-7.45	-17.45	26.88	SP	04/21/2017
RW-5*	Downgradient	444369.89	850714.06	7.42	9.98	-7.24	-17.24	37.22	SP	04/22/2017
RW-6*	Downgradient	444436.29	850831.76	7.50	10.07	-6.51	-26.51	36.58	SP	04/22/2017
RW-7*	Downgradient	444504.22	850949.51	7.27	9.72	-13.45	-28.45	38.17	SP	04/23/2017
RW-8*	Downgradient	444572.83	851064.32	7.32	9.95	-6.67	-21.67	31.62	SP	04/23/2017
RW-9*	Downgradient	444641.26	851181.25	7.55	10.05	-12.66	-27.66	37.71	SP	04/23/2017
RW-10*	Downgradient	444706.81	851295.35	7.64	10.36	-12.44	-27.44	37.80	SP	04/24/2017
DR-01	Downgradient	444407.62	850777.93	7.86	7.58	-8.14	-23.14	30.58	SP	05/26/2022
DR-02	Downgradient	444411.68	850784.46	7.90	7.49	-8.10	-23.10	30.03	SP	05/26/2022
DR-03	Downgradient	444422.02	850792.49	7.65	7.40	-8.25	-23.25	31.96	SP	06/01/2024
INW-01	Downgradient	444418.01	850792.41	7.50	7.18	-8.45	-23.45	30.78	SP	06/01/2024
PT-01	Downgradient	444408.70	850768.53	7.82	7.49	-6.89	-16.89	24.38	SP	05/26/2022
PT-02	Downgradient	444414.19	850777.91	7.91	7.64	-6.74	-16.74	24.38	SP	05/31/2022
PT-03	Downgradient	444418.92	850785.95	7.93	7.45	-7.91	-17.91	25.36	SP	06/01/2022
PT-04D	Downgradient	444400.23	850753.07	7.80	7.51	-23.34	-33.34	40.85	SP	05/25/2022

Notes:

Elevations shown are in datum NAVD88, which indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.

Georgia State Plane NAD83 East Zone referenced for horizontal datum.

Survey points measured from nail or known reference point.

Well screen elevations are calculated by subtracting the depths to top and bottom of the well screen from the ground surface elevation.

Groundwater screened zone references USCS designations for soil type.

Piezometers INW-01, PT-01 through PT-04D, and DR-01 through DR-03 were installed in support of a pre-design investigation and are not included in the monitoring well network.

* - wells were abandoned in October 2025, separate Abandonment Report submitted

Table 3
Summary of Groundwater and Surface Water Elevations
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

			September 2025		March 2026	
Well ID	Top of Casing Elevation (feet)	Tidal Stage	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
DPZ-01	9.71	LT	7.52	2.19	A/R	A/R
		HT	5.17	4.54	A/R	A/R
DPZ-02	9.54	LT	7.61	1.93	8.18	1.36
		HT	5.77	3.77	7.30	2.24
DPZ-03	9.46	LT	7.16	2.30	A/R	A/R
		HT	5.98	3.48	A/R	A/R
DPZ-04	11.45	LT	8.62	2.83	A/R	A/R
		HT	7.76	3.69	A/R	A/R
DPZ-05	11.00	LT	8.10	2.90	A/R	A/R
		HT	6.36	4.64	A/R	A/R
DPZ-06	12.04	LT	7.77	4.27	A/R	A/R
		HT	7.61	4.43	A/R	A/R
DR-01	7.58	LT	5.71	1.87	6.29	1.29
		HT	3.64	3.94	5.33	2.25
DR-02	7.49	LT	5.63	1.86	6.18	1.31
		HT	3.43	4.06	5.20	2.29
DR-03	7.40	LT	5.87	1.53	6.41	0.99
		HT	3.51	3.89	5.39	2.01
INW-01	7.18	LT	**	**	6.10	1.08
		HT	3.50	3.68	5.15	2.03
MCM-01	8.63	LT	3.75	4.88	4.55	4.08
		HT	3.40	5.23	4.52	4.11
MCM-02	11.25	LT	3.99	7.26	5.25	6.00
		HT	4.00	7.25	5.30	5.95
MCM-03	9.97	LT	5.73	4.24	A/R	A/R
		HT	5.61	4.36	A/R	A/R

Table 3
Summary of Groundwater and Surface Water Elevations
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

			September 2025		March 2026	
Well ID	Top of Casing Elevation (feet)	Tidal Stage	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MCM-04	12.39	LT	8.81	3.58	9.75	2.64
		HT	8.03	4.36	9.40	2.99
MCM-05	10.04	LT	7.58	2.46	8.10	1.94
		HT	5.71	4.33	7.32	2.72
MCM-06	10.15	LT	8.22	1.93	8.84	1.31
		HT	6.17	3.98	7.92	2.23
MCM-07	10.20	LT	7.13	3.07	7.85	2.35
		HT	6.50	3.70	7.68	2.52
MCM-08	9.42	LT	5.79	3.63	7.29	2.13
		HT	5.85	3.57	7.36	2.06
MCM-10	11.75	LT	6.17	5.58	7.13	4.62
		HT	6.42	5.33	7.14	4.61
MCM-11	10.23	LT	5.14	5.09	6.06	4.17
		HT	5.30	4.93	6.24	3.99
MCM-12	11.87	LT	8.16	3.71	9.03	2.84
		HT	8.30	3.57	9.12	2.75
MCM-13	12.56	LT	9.51	3.05	A/R	A/R
		HT	9.18	3.38	A/R	A/R
MCM-14	11.50	LT	9.67	1.83	10.06	1.44
		HT	7.36	4.14	9.11	2.39
MCM-15	12.84	LT	8.36	4.48	9.54	3.30
		HT	8.16	4.68	9.45	3.39
MCM-16	16.02	LT	8.66	7.36	10.11	5.91
		HT	8.68	7.34	10.12	5.90
MCM-17	11.49	LT	8.50	2.99	9.34	2.15
		HT	8.15	3.34	9.14	2.35

Table 3
Summary of Groundwater and Surface Water Elevations
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

			September 2025		March 2026	
Well ID	Top of Casing Elevation (feet)	Tidal Stage	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MCM-18	9.00	LT	5.28	3.72	6.54	2.46
		HT	5.49	3.51	6.73	2.27
MCM-19	8.71	LT	6.54	2.17	7.47	1.24
		HT	5.01	3.70	7.12	1.59
MCM-20	10.07	LT	8.31	1.76	9.21	0.86
		HT	6.35	3.72	9.23	0.84
MW-01R	12.40	LT	8.16	4.24	A/R	A/R
		HT	7.36	5.04	A/R	A/R
MW-02	10.95	LT	7.22	3.73	A/R	A/R
		HT	6.92	4.03	A/R	A/R
MW-03	11.17	LT	7.58	3.59	A/R	A/R
		HT	7.65	3.52	A/R	A/R
MW-04	9.17	LT	5.60	3.57	A/R	A/R
		HT	5.58	3.59	A/R	A/R
MW-05	13.29	LT	6.32	6.97	7.95	5.34
		HT	5.71	7.58	7.92	5.37
MW-06R	13.36	LT	6.39	6.97	7.82	5.54
		HT	6.64	6.72	7.73	5.63
MW-07	9.72	LT	4.20	5.52	5.16	4.56
		HT	4.43	5.29	5.22	4.50
MW-09	9.81	LT	6.19	3.62	A/R	A/R
		HT	6.22	3.59	A/R	A/R
MW-10	10.27	LT	7.21	3.06	A/R	A/R
		HT	6.55	3.72	A/R	A/R
MW-11	10.27	LT	9.08	1.19	9.50	0.77
		HT	6.62	3.65	8.30	1.97

Table 3
Summary of Groundwater and Surface Water Elevations
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

			September 2025		March 2026	
Well ID	Top of Casing Elevation (feet)	Tidal Stage	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-12	9.74	LT	7.72	2.02	A/R	A/R
		HT	5.51	4.23	A/R	A/R
PT-01	7.49	LT	5.62	1.87	6.34	1.15
		HT	3.54	3.95	5.28	2.21
PT-02	7.64	LT	5.76	1.88	6.36	1.28
		HT	3.60	4.04	5.44	2.20
PT-03	7.45	LT	5.63	1.82	6.13	1.32
		HT	3.33	4.12	5.18	2.27
PT-04D	7.51	LT	5.52	1.99	6.07	1.44
		HT	3.51	4.00	5.12	2.39
PZ-09	9.41	LT	5.73	3.68	7.70	1.71
		HT	5.99	3.42	7.78	1.63
PZ-10	12.17	LT	8.98	3.19	A/R	A/R
		HT	8.11	4.06	A/R	A/R
PZ-11	9.37	LT	5.60	3.77	6.69	2.68
		HT	5.43	3.94	6.76	2.61
PZ-12	7.90	LT	4.93	2.97	A/R	A/R
		HT	4.19	3.71	A/R	A/R
RW-1	9.46	LT	6.58	2.88	A/R	A/R
		HT	6.64	2.82	A/R	A/R
RW-2	9.76	LT	6.84	2.92	A/R	A/R
		HT	6.87	2.89	A/R	A/R
RW-3	9.69	LT	6.57	3.12	A/R	A/R
		HT	6.21	3.48	A/R	A/R
RW-4	9.43	LT	6.18	3.25	A/R	A/R
		HT	5.96	3.47	A/R	A/R

Table 3
Summary of Groundwater and Surface Water Elevations
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

			September 2025		March 2026	
Well ID	Top of Casing Elevation (feet)	Tidal Stage	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
RW-5	9.98	LT	8.12	1.86	A/R	A/R
		HT	6.41	3.57	A/R	A/R
RW-6	10.07	LT	7.23	2.84	A/R	A/R
		HT	6.28	3.79	A/R	A/R
RW-7	9.72	LT	8.07	1.65	A/R	A/R
		HT	5.80	3.92	A/R	A/R
RW-8	9.95	LT	7.12	2.83	A/R	A/R
		HT	6.16	3.79	A/R	A/R
RW-9	10.05	LT	7.97	2.08	A/R	A/R
		HT	5.80	4.25	A/R	A/R
RW-10	10.36	LT	8.16	2.20	A/R	A/R
		HT	6.22	4.14	A/R	A/R
Oil Dock SW Monitor (Burnett Creek)	NA	LT	NA	-3.75	NA	-3.40
		HT	NA	4.98	NA	1.45
Ash Pond Monitor	NA	LT	NA	**	NA	3.39
		HT	NA	**	NA	3.25

Notes:

NAVD88 indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.

LT - Low Tide Measurement

HT - High Tide Measurement

Surface water transducer monitors used for surface water elevations

NA - indicates not applicaple

** - value unavailable at time of water level sweep

Piezometers INW-01, PT-01 through PT-04D, and DR-01 through DR-03 were installed in support of a pre-design investigation and are not included in the monitoring well network

A/R - well was abandoned or removed from network prior to water level sweep

Table 4
Groundwater Event Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

			September 09 2025 - September 11 2025	March 10 2026 - March 11 2026
			Assessment Event	Assessment Event
Well ID	Hydraulic Location	Compliance Purpose		
MCM-01	Upgradient	Detection	X	X
MCM-02	Upgradient	Detection	X	X
MCM-04	Downgradient	Detection	X	X
MCM-05	Downgradient	Detection	X	X
MCM-06	Downgradient	Detection	X	X
MCM-07	Downgradient	Detection	X	X
MCM-11	Upgradient	Detection	X	X
MCM-12	Downgradient	Detection	X	X
MCM-14	Downgradient	Detection	X	X
MCM-15	Upgradient	Detection	X	X
MCM-16	Upgradient	Detection	X	X
MCM-17	Downgradient	Detection	X	X
MCM-18	Upgradient	Detection	X	X
MCM-19	Upgradient	Detection	X	X
MCM-20	Upgradient	Detection	X	X
DPZ-02	Downgradient	Assessment	X	X

Notes:

X - Indicates well sampled during event

Assessment Event analytical suite includes App III Metals (B, Ca), App IV Metals (Sb, As, Ba, Be, Ca, Cr, Co, Pb, Li, Hg, Mo, Se, Tl), Inorganics (Cl F, SO4), Total Dissolved Solids, and Radium 226/228

Table 5
Groundwater Analytical Data Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

	Sample Location	MCM-01	MCM-01	MCM-02	MCM-02	MCM-04	MCM-04	MCM-05	MCM-05	MCM-06
	Sample Date	09/09/2025	03/10/2026	09/10/2025	03/11/2026	09/10/2025	03/10/2026	09/09/2025	03/10/2026	09/09/2025
ANALYTE	UNITS									
Appendix III										
Boron	mg/L	0.0522	0.0393	0.0910	0.0843	0.0612	0.0411	0.669	1.06	0.799
Calcium	mg/L	7.83	7.90	6.85	5.45	4.36	4.03	245	240	240
Chloride	mg/L	14.4	16.6	15.4	13.7	21.5	10.0	4910	6240	5860
Fluoride	mg/L	0.0772 J	0.0665 J	0.0373 J	< 0.0330	< 0.0330	0.0536 J	0.719	0.486 J	0.272 J
pH, Field	SU	5.01	5.12	5.30	5.09	5.42	5.07	6.85	6.72	6.72
Sulfate	mg/L	24.9	24.1	23.9	23.9	25.8	17.6	560	644	775
TDS	mg/L	129	70.0	85.0	83.0	106	54.0	9300	9900	11700
Appendix IV										
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	0.00159 J	< 0.00500	< 0.00100
Arsenic	mg/L	0.00658	0.00449 J	< 0.00200	< 0.00200	0.00382 J	0.00403 J	0.0629	0.0877	0.0777
Barium	mg/L	0.0742	0.0723	0.0472	0.0602	0.0285	0.0326	0.0834	0.110	0.338
Beryllium	mg/L	0.000216 J	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.00100	< 0.000200	< 0.00100
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.00150	< 0.000300
Chromium	mg/L	< 0.00300	< 0.00300	< 0.00300	< 0.00300	0.00448 J	< 0.00300	< 0.00300	< 0.00300	< 0.00300
Cobalt	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	0.00158	0.00240	< 0.000300	< 0.000300	< 0.000300
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.00250	< 0.000500
Lithium	mg/L	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	0.0533	0.0541	0.0616
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.000218 J	< 0.000200	0.00212	0.00224 J	0.000587 J
Combined Radium 226 + 228	pCi/L	2.27	4.46	0.597 U	1.30	2.28	2.57	7.73	8.42	11.8
Selenium	mg/L	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00750	< 0.00750	< 0.00750
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.00300	< 0.000600
Fluoride	mg/L	0.0772 J	0.0665 J	0.0373 J	< 0.0330	< 0.0330	0.0536 J	0.719	0.486 J	0.272 J
Additional Parameters										
Bicarbonate Alkalinity as CaCO3	mg/L	NA	4.44	NA	8.10	NA	4.00	NA	345	NA
Carbonate Alkalinity as CaCO3	mg/L	NA	< 0.806	NA	< 0.725	NA	< 0.725	NA	< 0.725	NA
Total Alkalinity as CaCO3	mg/L	NA	4.44	NA	8.10	NA	4.00	NA	345	NA
Iron	mg/L	NA	1.62	NA	0.639	NA	0.811	0.138	0.0721 J	0.0724 J
Magnesium	mg/L	NA	1.54	NA	1.87	NA	1.69	NA	444	NA
Potassium	mg/L	NA	1.76	NA	0.847	NA	7.13	NA	98.6	NA
Sodium	mg/L	NA	10.5	NA	15.0	NA	5.10	NA	4620	NA
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	46	56	35

Table 5
Groundwater Analytical Data Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

	Sample Location	MCM-06	MCM-07	MCM-07	MCM-11	MCM-11	MCM-12	MCM-12	MCM-14	MCM-14
	Sample Date	03/10/2026	09/11/2025	03/11/2026	09/10/2025	03/11/2026	09/09/2025	03/11/2026	09/09/2025	03/10/2026
ANALYTE	UNITS									
Appendix III										
Boron	mg/L	1.15	0.906	0.880	0.0854	0.0334	1.32	1.31	0.776	0.810
Calcium	mg/L	245	132	168	20.7	4.74	4.43	4.55	178	206
Chloride	mg/L	6820	3210	3760	82.5	7.98	281	285	4230	5360
Fluoride	mg/L	0.280 J	0.589	0.603	0.359	0.131	1.51	1.58	< 0.165	0.224 J
pH, Field	SU	6.50	6.44	6.55	5.29	4.73	6.38	6.29	6.51	6.26
Sulfate	mg/L	868	457	566	41.0	23.3	0.343 J	1.28	563	733
TDS	mg/L	12500	5990	8120	282	68.0	1130	1150	8750	10700
Appendix IV										
Antimony	mg/L	< 0.00500	< 0.00100	< 0.00500	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00500
Arsenic	mg/L	0.0821	0.0104 J	0.00829	0.0206	0.0104	< 0.00200	< 0.00200	< 0.0100	< 0.0100
Barium	mg/L	0.370	0.0733	0.0863	0.0702	0.0292	0.0611	0.0606	0.121	0.143
Beryllium	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.00155	0.00131	< 0.00100	< 0.000200
Cadmium	mg/L	< 0.00150	< 0.000300	< 0.00150	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.00150
Chromium	mg/L	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	0.00736 J	0.00748 J	< 0.00300	< 0.00300
Cobalt	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	0.000456 J	0.000445 J	< 0.000300	< 0.000300
Lead	mg/L	< 0.00250	< 0.000500	< 0.00250	< 0.000500	< 0.000500	0.000730 J	< 0.000500	< 0.000500	< 0.00250
Lithium	mg/L	0.0560	0.0161	0.0123	0.00642 J	< 0.00300	0.0102	0.00893 J	0.0348 J	0.0349
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	< 0.00100	0.000526 J	< 0.00100	0.000294 J	< 0.000200	0.000438 J	0.000451 J	< 0.000200	< 0.00100
Combined Radium 226 + 228	pCi/L	11.1	6.67	2.91	2.95	1.12 U	2.52	2.49	8.36	6.97
Selenium	mg/L	< 0.00750	< 0.00750	0.00197 J	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00750	< 0.00750
Thallium	mg/L	< 0.00300	< 0.000600	< 0.00300	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.00300
Fluoride	mg/L	0.280 J	0.589	0.603	0.359	0.131	1.51	1.58	< 0.165	0.224 J
Additional Parameters										
Bicarbonate Alkalinity as CaCO3	mg/L	211	NA	180	NA	11.3	NA	461	NA	143
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	NA	< 0.725	NA	< 0.725	NA	< 0.725	NA	< 0.725
Total Alkalinity as CaCO3	mg/L	211	NA	180	NA	11.3	NA	461	NA	143
Iron	mg/L	< 0.0330	NA	< 0.0330	NA	4.83	NA	0.192	NA	< 0.0330
Magnesium	mg/L	460	NA	333	NA	1.30	NA	7.27	NA	412
Potassium	mg/L	109	NA	76.3	NA	0.491 J	NA	17.5	NA	91.1
Sodium	mg/L	4380	NA	2940	NA	13.0	NA	407	NA	3280
Sulfide	mg/L	21	NA	NA	NA	NA	NA	NA	NA	NA

Table 5
Groundwater Analytical Data Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

	Sample Location	MCM-15	MCM-15	MCM-16	MCM-16	MCM-17	MCM-17	MCM-18	MCM-18
	Sample Date	09/09/2025	03/11/2026	09/10/2025	03/12/2026	09/11/2025	03/10/2026	09/09/2025	03/10/2026
ANALYTE	UNITS								
Appendix III									
Boron	mg/L	0.0726	0.0547	0.0540	0.0488	2.21	1.72	0.190	0.227
Calcium	mg/L	6.52	5.47	3.98	4.69	60.7	46.2	15.4	21.7
Chloride	mg/L	14.2	12.2	5.99	5.87	2550	2450	835	1230
Fluoride	mg/L	0.0538 J	0.0579 J	0.0442 J	0.0547 J	0.995	0.858	0.369 J	0.433
pH, Field	SU	5.33	5.44	4.73	5.20	6.42	6.06	4.29	4.55
Sulfate	mg/L	14.3	12.4	24.7	23.5	286	226	140	209
TDS	mg/L	107	75.0	54.0	57.0	5530	4830	1640	2260
Appendix IV									
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	mg/L	0.00381 J	0.00216 J	< 0.00200	< 0.00200	< 0.0100	< 0.00200	0.00246 J	0.00296 J
Barium	mg/L	0.0422	0.0410	0.0866	0.0847	0.0682	0.0588	0.124	0.123
Beryllium	mg/L	0.000375 J	0.000242 J	0.000203 J	< 0.000200	< 0.00100	< 0.000200	0.00266	0.00224
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Chromium	mg/L	< 0.00300	< 0.00300	< 0.00300	< 0.00300	0.00513 J	0.00501 J	< 0.00300	< 0.00300
Cobalt	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Lithium	mg/L	< 0.00300	< 0.00300	< 0.00300	< 0.00300	0.0213 J	0.0188	0.00343 J	< 0.00300
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	0.000716 J	0.000663 J	< 0.000200	< 0.000200	0.000272 J	0.000374 J	< 0.000200	< 0.000200
Combined Radium 226 + 228	pCi/L	2.57	1.26	3.03	1.65	5.59	6.70	7.52	10.4
Selenium	mg/L	< 0.00150	0.00152 J	< 0.00150	< 0.00150	< 0.00750	0.00194 J	0.00473 J	0.00810
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
Fluoride	mg/L	0.0538 J	0.0579 J	0.0442 J	0.0547 J	0.995	0.858	0.369 J	0.433
Additional Parameters									
Bicarbonate Alkalinity as CaCO3	mg/L	NA	21.0	NA	4.80	NA	319	NA	1.80 J
Carbonate Alkalinity as CaCO3	mg/L	NA	< 0.725	NA	< 0.725	NA	< 0.806	NA	< 0.725
Total Alkalinity as CaCO3	mg/L	NA	21.0	NA	4.80	NA	319	NA	1.80 J
Iron	mg/L	NA	0.737	NA	0.583	NA	0.125	NA	32.0
Magnesium	mg/L	NA	0.941	NA	1.74	NA	114	NA	68.6
Potassium	mg/L	NA	4.88	NA	1.19 J	NA	68.3	NA	10.1
Sodium	mg/L	NA	12.6	NA	7.87	NA	1890	NA	800
Sulfide	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

Table 5
Groundwater Analytical Data Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

	Sample Location	MCM-19	MCM-19	MCM-20	MCM-20	DPZ-02	DPZ-02
	Sample Date	09/09/2025	03/11/2026	09/09/2025	03/12/2026	09/10/2025	03/10/2026
ANALYTE	UNITS						
Appendix III							
Boron	mg/L	0.838	0.272	0.885	0.855	1.34	1.25
Calcium	mg/L	143	39.5	86.6	93.2	163	182
Chloride	mg/L	5800	1390	4040	4640	4150	4370
Fluoride	mg/L	0.778	0.381 J	3.20	0.421 J	0.370 J	3.19
pH, Field	SU	4.94	5.06	3.67	3.51	7.17	7.11
Sulfate	mg/L	824	163	784	977	505	501
TDS	mg/L	10900	2710	8360	8860	8230	8500
Appendix IV							
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00500	< 0.00100	< 0.00500
Arsenic	mg/L	0.0262	0.00459 J	0.0262	0.0236 J	0.0351	0.0611
Barium	mg/L	0.0906	0.133	0.0921	0.0956	0.0463	0.0535
Beryllium	mg/L	0.0147	0.00606	0.0159	0.0138	< 0.00100	< 0.00100
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.00150	< 0.000300	< 0.00150
Chromium	mg/L	0.00562 J	< 0.00300	0.00615 J	< 0.0150	< 0.00300	< 0.0150
Cobalt	mg/L	< 0.000300	< 0.000300	0.0234	0.0233	< 0.000300	< 0.00150
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.00250	< 0.000500	< 0.00250
Lithium	mg/L	0.0153 J	0.0107	0.0220 J	0.0188 J	0.0660	0.0696
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.00100	0.000393 J	< 0.00100
Combined Radium 226 + 228	pCi/L	20.7	9.97	30.8	30.5	6.24	4.31
Selenium	mg/L	0.0727	0.0115	0.0365	0.0461	< 0.00750	< 0.00750
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.00300	< 0.000600	< 0.00300
Fluoride	mg/L	0.778	0.381 J	3.20	0.421 J	0.370 J	3.19
Additional Parameters							
Bicarbonate Alkalinity as CaCO3	mg/L	NA	25.0	NA	< 0.725	NA	3840
Carbonate Alkalinity as CaCO3	mg/L	NA	< 0.725	NA	< 0.725	NA	< 0.725
Total Alkalinity as CaCO3	mg/L	NA	25.0	NA	< 0.725	NA	3840
Iron	mg/L	NA	38.3	NA	99.0	NA	0.0451 J
Magnesium	mg/L	NA	86.1	NA	272	NA	295
Potassium	mg/L	NA	21.6	NA	57.4	NA	90.5
Sodium	mg/L	NA	903	NA	3270	NA	3220
Sulfide	mg/L	NA	NA	NA	NA	NA	NA

Table 5
Groundwater Analytical Data Summary
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, US-GA

Notes:
TDS - Total Dissolved Solids
mg/L - milligrams per liter
pCi/L - picocuries per liter
SU - Standard Units
NA - Indicates not analyzed
< 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 method detection limit, but below the laboratory reporting limit.
Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.

Table 5A
Summary of Corrective Action Piezometer Groundwater Analytical Data
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

	Sample Location	DR-02	DR-02	DR-03	DR-03	INW-01	INW-01	PT-01	PT-02	PT-03	PT-03
	Sample Date	09/10/2025	03/12/2026	09/10/2025	03/11/2026	09/10/2025	03/11/2026	03/10/2026	03/12/2026	09/10/2025	03/11/2026
ANALYTE	UNITS										
Appendix III											
pH, Field	SU	7.16	6.97	7.18	7.27	6.47	6.74	6.90	6.69	6.51	6.73
Appendix IV											
Arsenic	mg/L	0.148	0.143	< 0.0100	0.00653	< 0.0100	< 0.0100	0.0219 J	0.0133	0.0443	0.0923
Additional Parameters											
Iron	mg/L	0.636	0.148	1.34	2.22	4.52	0.402	0.100	0.463	< 0.165	0.329
Sulfide	mg/L	34	38	10	13	3.0	12	NA	NA	20	25

Notes:
mg/L - milligrams per liter
SU - Standard Units
NA - Indicates not analyzed
< 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 method detection limit, but below the laboratory reporting limit.
Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U.
The MDC varies depending upon the sample amount and elapsed time of the measurement.

Table 6
Surface Water Analytical Data Summary
Georgia Power Company
Plant McManus - Ash Pond 1
Glynn County, GA

Sample Location		BG-1LT	BG-1LT	BG-2HT	BG-2HT	T2-1HT
Sample Date		09/17/2025	5/14/2026	09/18/2025	5/14/2026	09/18/2025
ANALYTE	UNITS					
Appendix III						
Boron	mg/L	2.69	2.80	3.03	2.70	2.75
Calcium	mg/L	285	290	336	280	264
Chloride	mg/L	9390	18000	10600	17000	9750
Fluoride	mg/L	0.684 J	< 100	0.722 J	< 100	0.704 J
pH, Field	SU	7.12	7.37	7.34	7.36	7.24
Sulfate	mg/L	1900	2600	2030	2400 J	1710
TDS	mg/L	18000	30000	19700	32000	18300
Appendix IV						
Arsenic	mg/L	< 0.0100	0.0034 J	< 0.0100	0.0030 J	< 0.0100
Fluoride	mg/L	0.684 J	< 100	0.722 J	< 100	0.704 J
Additional Parameters						
Alkalinity Total as CaCO3	mg/L	103	120	107	120	104
Bicarbonate Alkalinity as CaCO3	mg/L	103	120	107	120	104
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	< 2.2	< 1.04	< 2.2	< 0.725
Magnesium	mg/L	640	970	716	1000	636
Potassium	mg/L	214	270	246	310	208
Sodium	mg/L	6090	8000	7050	8500	6330

Table 6
Surface Water Analytical Data Summary
Georgia Power Company
Plant McManus - Ash Pond 1
Glynn County, GA

Sample Location		T2-1HT	T2-2HT	T2-2HT	T2-2HTS	T2-2HTS
Sample Date		5/14/2026	09/18/2025	5/14/2026	09/18/2025	5/14/2026
ANALYTE	UNITS					
Appendix III						
Boron	mg/L	2.80	2.58	2.90	2.59	2.80
Calcium	mg/L	290	272	280	285	280
Chloride	mg/L	14000	9740	17000	9670	16000
Fluoride	mg/L	< 100	< 0.660	< 100	0.714 J	< 100
pH, Field	SU	7.06	7.18	7.25	7.21	7.19
Sulfate	mg/L	2100 J	1510	2500	1770	2400 J
TDS	mg/L	30000	18100	31000	18200	32000
Appendix IV						
Arsenic	mg/L	0.0015 J	< 0.0100	< 0.0013	< 0.0100	< 0.0013
Fluoride	mg/L	< 100	< 0.660	< 100	0.714 J	< 100
Additional Parameters						
Alkalinity Total as CaCO3	mg/L	120	104	120	101	120
Bicarbonate Alkalinity as CaCO3	mg/L	120	104	120	101	120
Carbonate Alkalinity as CaCO3	mg/L	< 2.2	< 0.725	< 2.2	< 0.725	< 2.2
Magnesium	mg/L	1200	620	1000	623	990
Potassium	mg/L	350	205	310	209	290
Sodium	mg/L	9000	6090	9300	5710	7800

Table 6
Surface Water Analytical Data Summary
Georgia Power Company
Plant McManus - Ash Pond 1
Glynn County, GA

Sample Location		T2-3HT	T2-3HT	T2-3HTS	T2-3HTS	T2-4HT
Sample Date		09/18/2025	5/14/2026	09/18/2025	5/14/2026	09/18/2025
ANALYTE	UNITS					
Appendix III						
Boron	mg/L	2.68	2.90	2.83	2.90	2.58
Calcium	mg/L	303	270	299	290	251
Chloride	mg/L	9500	21000	9670	18000	9590
Fluoride	mg/L	0.686 J	< 100	0.678 J	< 100	0.740 J
pH, Field	SU	7.19	7.26	7.23	7.23	7.23
Sulfate	mg/L	1600	2900	1910	2600	1660
TDS	mg/L	17900	31000	18000	31000	18300
Appendix IV						
Arsenic	mg/L	< 0.0100	0.0016 J	< 0.0100	< 0.0013	< 0.0100
Fluoride	mg/L	0.686 J	< 100	0.678 J	< 100	0.740 J
Additional Parameters						
Alkalinity Total as CaCO3	mg/L	103	120	106	120	103
Bicarbonate Alkalinity as CaCO3	mg/L	103	120	106	120	103
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	< 2.2	< 0.725	< 2.2	< 0.725
Magnesium	mg/L	639	970	627	1000	639
Potassium	mg/L	213	280	208	350	215
Sodium	mg/L	6010	7600	6050	8900	6210

Table 6
Surface Water Analytical Data Summary
Georgia Power Company
Plant McManus - Ash Pond 1
Glynn County, GA

Sample Location		T2-4HT	T2-4HTS	T2-4HTS	T2-4LT	T2-4LT
Sample Date		5/14/2026	09/18/2025	5/14/2026	09/17/2025	5/14/2026
ANALYTE	UNITS					
Appendix III						
Boron	mg/L	2.80	2.62	2.90	2.47	2.60
Calcium	mg/L	290	302	290	290	190
Chloride	mg/L	17000	9490	17000	9230	16000
Fluoride	mg/L	< 100	< 0.660	< 100	0.700 J	< 100
pH, Field	SU	7.28	7.27	7.28	7.20	7.25
Sulfate	mg/L	2500	1430	2500	1620	2300 J
TDS	mg/L	31000	18000	31000	17200	27000
Appendix IV						
Arsenic	mg/L	0.0024 J	< 0.0100	0.0013 J	< 0.0100	0.0027 J
Fluoride	mg/L	< 100	< 0.660	< 100	0.700 J	< 100
Additional Parameters						
Alkalinity Total as CaCO3	mg/L	120	103	120	105	120
Bicarbonate Alkalinity as CaCO3	mg/L	120	103	120	105	120
Carbonate Alkalinity as CaCO3	mg/L	< 2.2	< 0.725	< 2.2	< 0.725	< 2.2
Magnesium	mg/L	1200	613	1000	615	980
Potassium	mg/L	320	204	300	207	250
Sodium	mg/L	9500	5910	8900	6060	8000

Table 6
Surface Water Analytical Data Summary
Georgia Power Company
Plant McManus - Ash Pond 1
Glynn County, GA

Notes:
mg/L - milligrams per liter
SU - Standard Units
TDS - Total Dissolved Solids
< indicates the substance was not detected above the reporting limit (RL). The value displayed is the RL.
J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.

Table 7
Groundwater Flow Velocity Calculations
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

Gauging Event	Well Pair	Tidal Stage	Groundwater Elevations in Well Pairs (ft)		Change in Elevation (ft)	Distance Between Well 1 and Well 2 (ft)	Hydraulic Gradient (ft/ft)	Average Hydraulic Conductivity (K) (ft/day)	Estimated Effective Porosity (ne)	Calculated Groundwater Flow Velocity (ft/day)	Calculated Groundwater Flow Velocity (ft/year)
September 2025	MCM-11 to MCM-12	LT	5.09	3.71	1.38	458.76	0.0030	3.40	0.35	0.029	10.67
		HT	4.93	3.57	1.36	458.76	0.0030	3.40	0.35	0.029	10.51
	MCM-16 to MCM-02	LT	7.36	7.26	0.1	76.17	0.0013	3.40	0.35	0.013	4.66
		HT	7.34	7.25	0.09	76.17	0.0012	3.40	0.35	0.011	4.19
	MCM-11 to MCM-18	LT	5.09	3.72	1.37	723.07	0.0019	3.40	0.35	0.018	6.72
		HT	4.93	3.51	1.42	723.07	0.0020	3.40	0.35	0.019	6.96
March 2026	MCM-11 to MCM-12	LT	4.17	2.84	1.33	458.76	0.0029	3.40	0.35	0.028	10.28
		HT	3.99	2.75	1.24	458.76	0.0027	3.40	0.35	0.026	9.58
	MCM-16 to MCM-02	LT	5.91	6.00	0.09	76.17	0.0012	3.40	0.35	0.011	4.19
		HT	5.90	5.95	0.05	76.17	0.0007	3.40	0.35	0.006	2.33
	MCM-11 to MCM-18	LT	4.17	2.46	1.71	723.07	0.0024	3.40	0.35	0.023	8.39
		HT	3.99	2.27	1.72	723.07	0.0024	3.40	0.35	0.023	8.43

Notes:
ft – feet
HT - High Tide Measurement
LT- Low Tide Measurement
In-situ hydraulic conductivity (slug) tests in the Upper Satilla Formation at the Site ranged from 0.27 to 52.72 feet/day with an average of 3.40 feet/day
Effective porosity of 35% was selected for the alluvial coastal deposits of very fine to fine sands ranging from the surface to 33-34ft below ground surface identified during the subsurface investigations at the site
See figures for illustrated flow path
Groundwater flow velocity equation: V= (K* i)ne
where:
V = groundwater flow velocity
K = average hydraulic conductivity
i = horizontal hydraulic gradient
ne = estimated effective porosity

Table 8
Summary of Background Levels and GWPS - September 2025
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

Analyte	Units	EPA MCL	Federal CCR Rules Specified Limit	Background Limit	GWPS
Antimony	mg/L	0.006		0.003	0.006
Arsenic	mg/L	0.01		0.032	0.032
Barium	mg/L	2		0.22	2
Beryllium	mg/L	0.004		0.021	0.021
Cadmium	mg/L	0.005		0.0043	0.005
Chromium	mg/L	0.1		0.011	0.1
Cobalt	mg/L		0.006	0.036	0.036
Combined Radium 226 + 228	pCi/L	5		34.9	34.9
Fluoride	mg/L	4		3.98	4
Lead	mg/L		0.015	0.002	0.015
Lithium	mg/L		0.04	0.049	0.049
Mercury	mg/L	0.002		0.0007	0.002
Molybdenum	mg/L		0.1	0.002	0.1
Selenium	mg/L	0.05		0.073	0.073
Thallium	mg/L	0.002		0.002	0.002

Notes:
GWPS- Groundwater Protection Standard
MCL - Maximum Contaminant Level
mg/L - milligrams per liter
pCi/L - picocuries per liter
The background limits are used when determining the groundwater protection standard (GWPS) under 40 CFR § 257.95(h) and 391-3-4-.10(6)(a).
Under existing EPD rules, the GWPS is: (i) the MCL or RSL, (ii) where the MCL or RSL is not established, the background concentration, or
(iii) background levels for constituents where the background level is higher than the MCL or RSL

Table 9
Summary of Background Levels and GWPS - March 2026
Georgia Power Company
Plant McManus - Former Ash Pond 1
Glynn County, GA

Analyte	Units	EPA MCL	Federal CCR Rules Specified GWPS	Background Limit	GWPS
Antimony	mg/L	0.006		0.003	0.006
Arsenic	mg/L	0.01		0.032	0.032
Barium	mg/L	2		0.22	2
Beryllium	mg/L	0.004		0.021	0.021
Cadmium	mg/L	0.005		0.0043	0.005
Chromium	mg/L	0.1		0.05	0.1
Cobalt	mg/L		0.006	0.036	0.036
Combined Radium 226 + 228	pCi/L	5		34.9	34.9
Fluoride	mg/L	4		3.98	4
Lead	mg/L		0.015	0.01	0.015
Lithium	mg/L		0.04	0.049	0.049
Mercury	mg/L	0.002		0.0007	0.002
Molybdenum	mg/L		0.1	0.005	0.1
Selenium	mg/L	0.05		0.073	0.073
Thallium	mg/L	0.002		0.002	0.002

Notes:
GWPS- Groundwater Protection Standard
MCL - Maximum Contaminant Level
mg/L - milligrams per liter
pCi/L - picocuries per liter
The background limits are used when determining the groundwater protection standard (GWPS) under 40 CFR § 257.95(h) and 391-3-4-.10(6)(a).
Under existing EPD rules, the GWPS is: (i) the MCL or RSL, (ii) where the MCL or RSL is not established, the background concentration, or (iii) background levels for constituents where the background level is higher than the MCL or RSL

FIGURES

2026 Annual Groundwater Monitoring and Corrective Action Report

ENSAFE

1080 Holcomb Bridge Road
Building 200, Suite 340
Roswell, GA 30076

Plant McManus Former AP-1
Site Location Map

Brunswick, GA

Legend

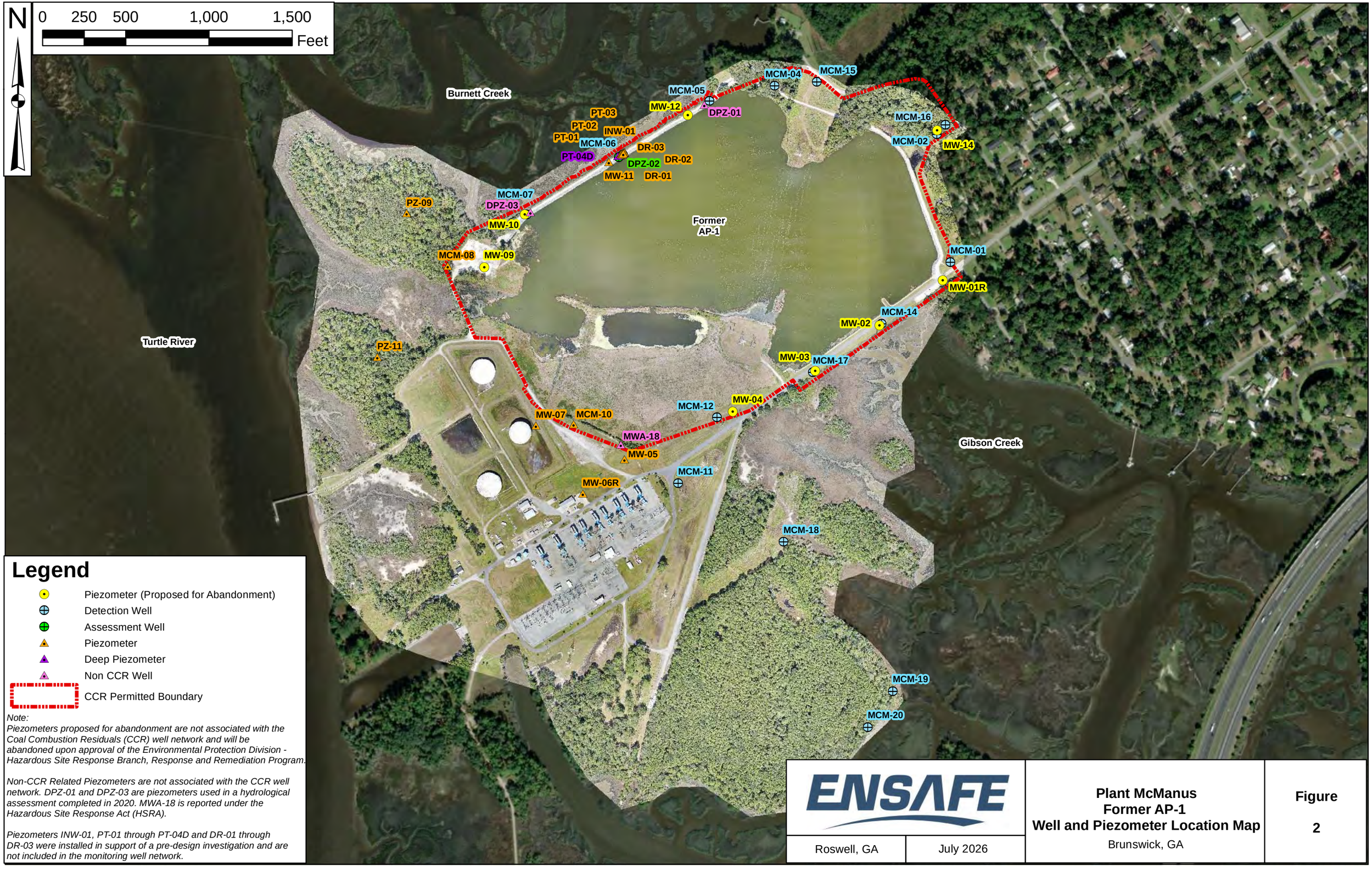
CCR Permitted Boundary

0 500 1,000 2,000 Feet

N

Figure 1

July 2026



Legend

- Piezometer (Proposed for Abandonment)
- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Non CCR Well
- CCR Permitted Boundary

Note:
Piezometers proposed for abandonment are not associated with the Coal Combustion Residuals (CCR) well network and will be abandoned upon approval of the Environmental Protection Division - Hazardous Site Response Branch, Response and Remediation Program.

Non-CCR Related Piezometers are not associated with the CCR well network. DPZ-01 and DPZ-03 are piezometers used in a hydrological assessment completed in 2020. MWA-18 is reported under the Hazardous Site Response Act (HSRA).

Piezometers INW-01, PT-01 through PT-04D and DR-01 through DR-03 were installed in support of a pre-design investigation and are not included in the monitoring well network.

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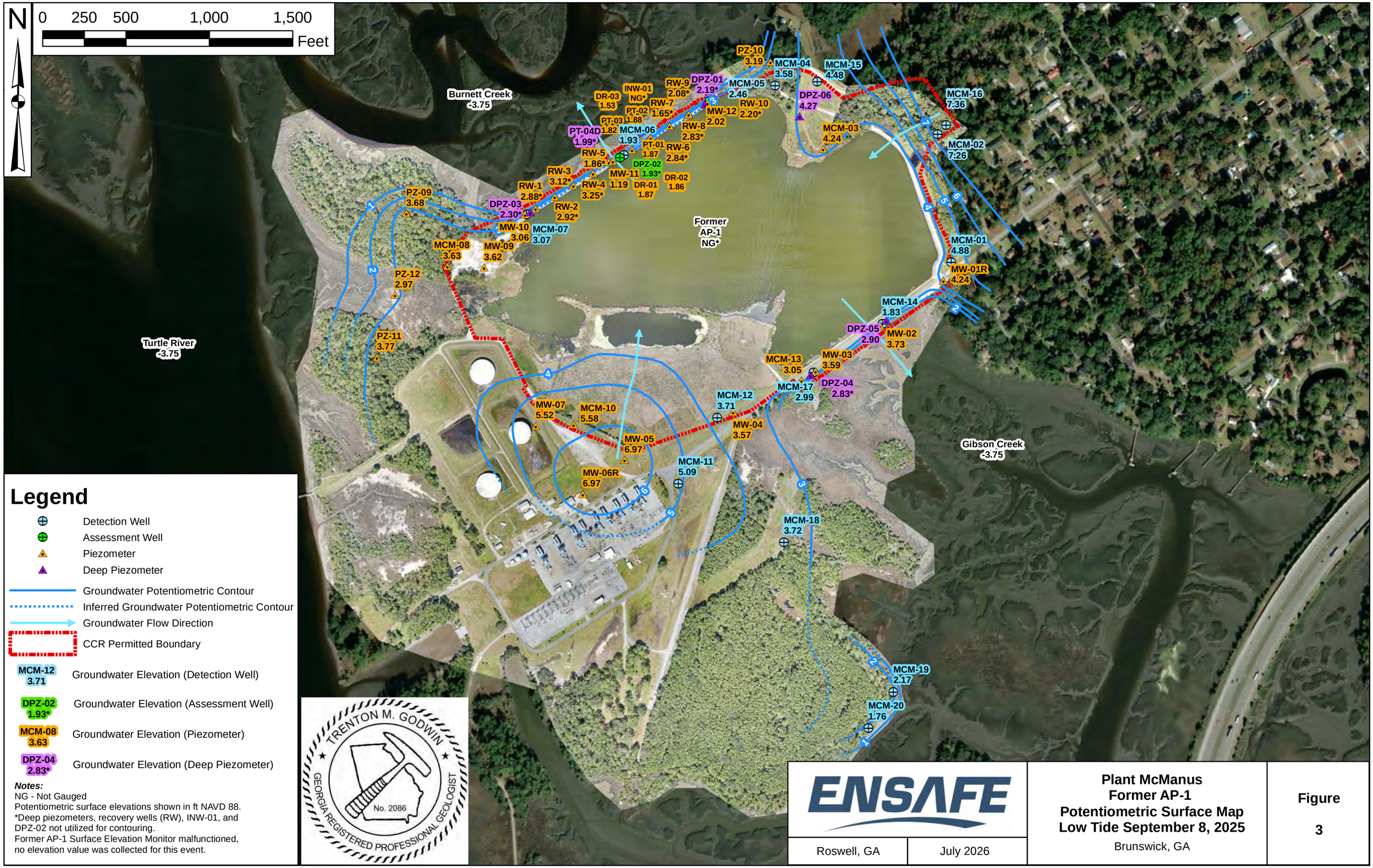
Roswell, GA | July 2026

Plant McManus
Former AP-1
Well and Piezometer Location Map
Brunswick, GA

Figure
2

2026 Annual Groundwater Monitoring and Corrective Action Report



Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Groundwater Potentiometric Contour
- Inferred Groundwater Potentiometric Contour
- Groundwater Flow Direction
- CCR Permitted Boundary
- MCM-12 3.71 — Groundwater Elevation (Detection Well)
- DPZ-02 1.93* — Groundwater Elevation (Assessment Well)
- MCM-08 3.63 — Groundwater Elevation (Piezometer)
- DPZ-04 2.83* — Groundwater Elevation (Deep Piezometer)

Notes:
NG - Not Gauged
Potentiometric surface elevations shown in ft NAVD 88.
*Deep piezometers, recovery wells (RW), INW-01, and DPZ-02 not utilized for contouring.
Former AP-1 Surface Elevation Monitor malfunctioned, no elevation value was collected for this event.

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No. 2086

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Plant McManus
Former AP-1
Potentiometric Surface Map
Low Tide September 8, 2025
Brunswick, GA

Figure
3

2026 Annual Groundwater Monitoring and Corrective Action Report

N

0 250 500 1,000 1,500

Feet

Burnett Creek 4.98

Turtle River 4.98

Gibson Creek 4.98

Former AP-1 NG*

PZ-10 4.06
MCM-04 4.36
MCM-15 4.68
RW-9 4.25*
DPZ-01 4.54*
MCM-05 4.33
DPZ-06 4.43
MCM-16 7.34
DR-03 3.89
INW-01 3.68*
RW-7 3.92*
RW-10 4.14*
PT-02 4.04
MW-12 4.23
PT-03 4.12
RW-8 3.79*
MCM-03 4.36
PT-04D 4.00*
MCM-06 3.98
MCM-02 7.25
PT-01 3.95
RW-6 3.79*
RW-5 3.57*
DPZ-02 3.77*
RW-3 3.48*
MW-11 3.65
DR-02 4.06
RW-1 2.82*
RW-4 3.47*
DR-01 3.94
PZ-09 3.42
DPZ-03 3.48*
RW-2 2.89*
MW-10 3.72
MCM-07 3.70
MCM-01 5.23
MCM-08 3.57
MW-09 3.59
MW-01R 5.04
PZ-12 3.71
MCM-14 4.14
DPZ-05 4.64
MW-02 4.03
PZ-11 3.94
MCM-17 3.34
MCM-13 3.38
MW-03 3.52
MCM-12 3.57
DPZ-04 3.69*
MW-07 5.29
MCM-10 5.33
MW-04 3.59
MW-05 6.66
MCM-11 4.93
MW-06R 6.72
MCM-18 3.51
MCM-19 3.70
MCM-20 3.72

Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Inferred Groundwater Potentiometric Contour
- Groundwater Flow Direction
- Groundwater Potentiometric Contour
- CCR Permitted Boundary
- MCM-12 3.57 — Groundwater Elevation (Detection Well)
- DPZ-02 3.77* — Groundwater Elevation (Assessment Well)
- MCM-08 3.57 — Groundwater Elevation (Piezometer)
- DPZ-04 2.96* — Groundwater Elevation (Deep Piezometer)

Notes:
NG - Not Gauged
Potentiometric surface elevations shown in ft NAVD 88.
*Deep piezometers, recovery wells (RW), INW-01, and DPZ-02 not utilized for contouring.
Former AP-1 Surface Elevation Monitor malfunctioned, no elevation value was collected for this event.

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Roswell, GA | July 2026

Plant McManus
Former AP-1
Potentiometric Surface Map
High Tide September 11, 2025
Brunswick, GA

Figure
4

2026 Annual Groundwater Monitoring and Corrective Action Report

N

0 250 500 1,000 1,500

Feet

Burnett Creek
-3.40

Turtle River
-3.40

Gibson Creek
-3.40

Former
AP-1
3.39

PT-02
1.28

INW-01
1.08*

PT-03
1.32

DR-03
0.99

MCM-06
1.31

PT-01
1.15

PT-04D
1.44*

DPZ-02
1.36*

DR-02
1.31

MW-11
0.77

DR-01
1.29

MCM-04
2.64

MCM-15
3.30

MCM-05
1.94

MCM-16
5.91

MCM-02
6.00

MCM-07
2.35

PZ-09
1.71

MCM-08
2.13

MCM-01
4.08

MCM-14
1.44

PZ-11
2.68

MCM-17
2.15

MCM-12
2.84

MW-07
4.56

MCM-10
4.62

MW-05
5.34

MCM-11
4.17

MW-06R
5.54

MCM-18
2.46

MCM-19
1.24

MCM-20
0.86

1 2 3 4 5

Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Groundwater Potentiometric Contour
- Inferred Groundwater Potentiometric Contour
- Groundwater Flow Direction
- CCR Permitted Boundary

MCM-12 2.84 — Groundwater Elevation (Detection Well)

DPZ-02 1.36* — Groundwater Elevation (Assessment Well)

MCM-08 2.13 — Groundwater Elevation (Piezometer)

PT-04D 1.44* — Groundwater Elevation (Deep Piezometer)

Notes:
Potentiometric surface elevations shown in ft NAVD 88.
*Deep piezometers, INW-01, and DPZ-02 not utilized for contouring.

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No. 2086

2026 Annual Groundwater Monitoring and Corrective Action Report

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Plant McManus
Former AP-1
Potentiometric Surface Map
Low Tide March 10, 2026
Brunswick, GA

Figure

5

N

0 250 500 1,000 1,500

Feet

Burnett Creek
1.45

Turtle River
1.45

Gibson Creek
1.45

Former
AP-1
3.25

INW-01
2.03*

PT-02
2.20

PT-03
2.27

DR-03
2.01

MCM-06
2.23

PT-01
2.21

PT-04D
2.39*

DPZ-02
2.24*

DR-02
2.29

MW-11
1.97

DR-01
2.25

MCM-04
2.99

MCM-05
2.72

MCM-15
3.39

MCM-16
5.90

MCM-02
5.95

MCM-01
4.11

MCM-14
2.39

MCM-17
2.35

MCM-12
2.75

MCM-18
2.27

MCM-19
1.59

MCM-20
0.84

MCM-11
3.99

MW-05
5.37

MW-06R
5.63

MW-07
4.50

MCM-10
4.61

MCM-07
2.52

MCM-08
2.06

PZ-09
1.63

PZ-11
2.61

1

2

3

4

5

Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Groundwater Potentiometric Contour
- Inferred Groundwater Potentiometric Countour
- Groundwater Flow Direction
- CCR Permitted Boundary
- MCM-12 2.75 — Groundwater Elevation (Detection Well)
- DPZ-02 2.24* — Groundwater Elevation (Assessment Well)
- MCM-08 2.06 — Groundwater Elevation (Piezometer)
- PT-04D 2.39* — Groundwater Elevation (Deep Piezometer)

Notes:
Potentiometric surface elevations shown in ft NAVD 88.
*Deep piezometers, INW-01, and
DPZ-02 not utilized for contouring.

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Roswell, GA | July 2026

Plant McManus
Former AP-1
Potentiometric Surface Map
High Tide March 11, 2026
Brunswick, GA

Figure
6

2026 Annual Groundwater Monitoring and Corrective Action Report

Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Groundwater Potentiometric Contour
- Inferred Groundwater Potentiometric Contour
- CCR Permitted Boundary
- MCM-06 1.93 — Groundwater Elevation (Detection Well)
- DPZ-02 1.93* — Groundwater Elevation (Assessment Well)
- DR-01 1.87 — Groundwater Elevation (Piezometer)
- PT-04D 1.99* — Groundwater Elevation (Deep Piezometer)

Notes:
NG - Not Gauged
Potentiometric surface elevations shown in ft NAVD 88.
*Deep piezometers, INW-01, and DPZ-02 not utilized for contouring.
Former AP-1 Surface Elevation Monitor malfunctioned, no elevation value was collected for this event.

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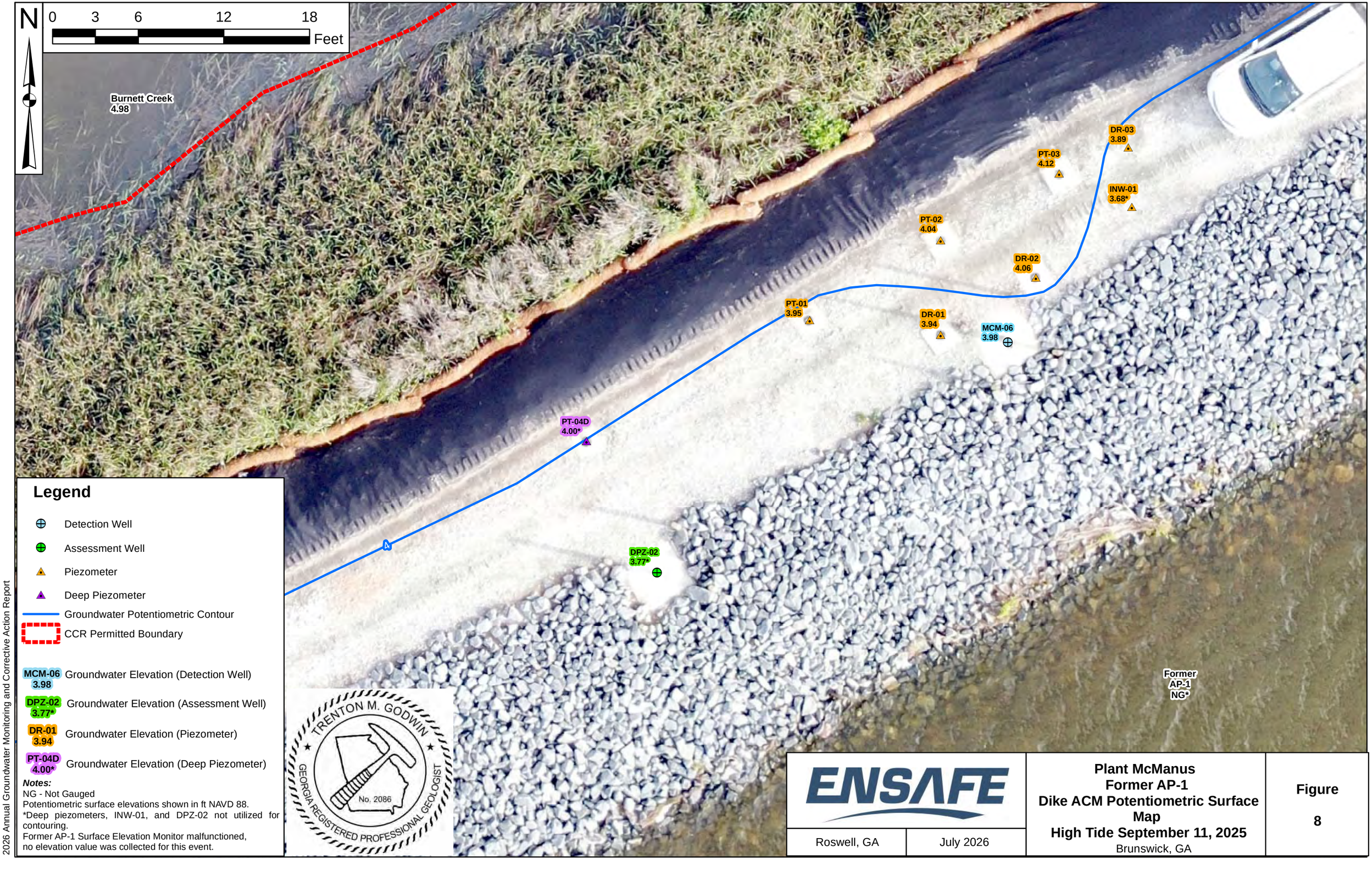
Roswell, GA | July 2026

Plant McManus
Former AP-1
Dike ACM Potentiometric Surface Map
Low Tide September 8, 2025
Brunswick, GA

Figure
7

2026 Annual Groundwater Monitoring and Corrective Action Report



Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Groundwater Potentiometric Contour
- CCR Permitted Boundary

- MCM-06 3.98 — Groundwater Elevation (Detection Well)
- DPZ-02 3.77* — Groundwater Elevation (Assessment Well)
- DR-01 3.94 — Groundwater Elevation (Piezometer)
- PT-04D 4.00* — Groundwater Elevation (Deep Piezometer)

Notes:
NG - Not Gauged
Potentiometric surface elevations shown in ft NAVD 88.
*Deep piezometers, INW-01, and DPZ-02 not utilized for contouring.
Former AP-1 Surface Elevation Monitor malfunctioned, no elevation value was collected for this event.

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Plant McManus
Former AP-1
Dike ACM Potentiometric Surface Map
High Tide September 11, 2025
Brunswick, GA

Figure
8

2026 Annual Groundwater Monitoring and Corrective Action Report

Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Groundwater Potentiometric Contour
- Inferred Groundwater Potentiometric Contour
- CCR Permitted Boundary
- MCM-06 1.31 — Groundwater Elevation (Detection Well)
- DPZ-02 1.36* — Groundwater Elevation (Assessment Well)
- DR-01 1.29 — Groundwater Elevation (Piezometer)
- PT-04D 1.44* — Groundwater Elevation (Deep Piezometer)

Notes:
Potentiometric surface elevations shown in ft NAVD 88.
*Deep piezometers, INW-01, and DPZ-02 not utilized for contouring.

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2026 Annual Groundwater Monitoring and Corrective Action Report

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Roswell, GA | July 2026

Plant McManus
Former AP-1
Dike ACM Potentiometric Surface Map
Low Tide March 10, 2026
Brunswick, GA

Figure
9

Legend

- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Groundwater Potentiometric Contour
- Inferred Groundwater Potentiometric Contour
- CCR Permitted Boundary
- MCM-06 2.23 — Groundwater Elevation (Detection Well)
- DPZ-02 2.24* — Groundwater Elevation (Assessment Well)
- DR-01 2.25 — Groundwater Elevation (Piezometer)
- PT-04D 2.39* — Groundwater Elevation (Deep Piezometer)

Notes:
Potentiometric surface elevations shown in ft NAVD 88.
*Deep piezometers, INW-01, and DPZ-02 not utilized for contouring.

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No. 2086

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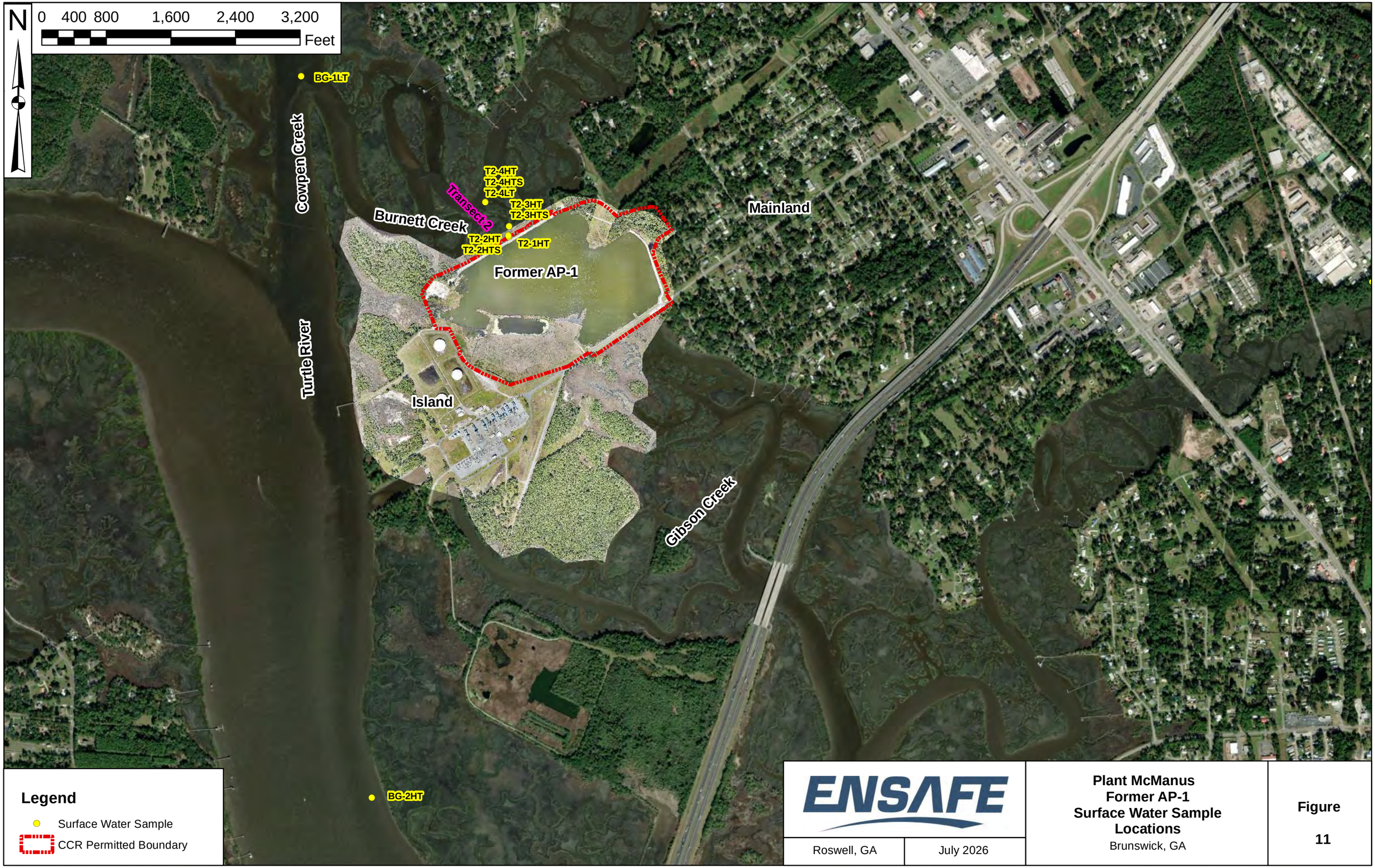
Roswell, GA | July 2026

Plant McManus
Former AP-1
Dike ACM Potentiometric Surface Map
High Tide March 11, 2026
Brunswick, GA

Figure
10

2026 Annual Groundwater Monitoring and Corrective Action Report



Legend

- Surface Water Sample
- CCR Permitted Boundary

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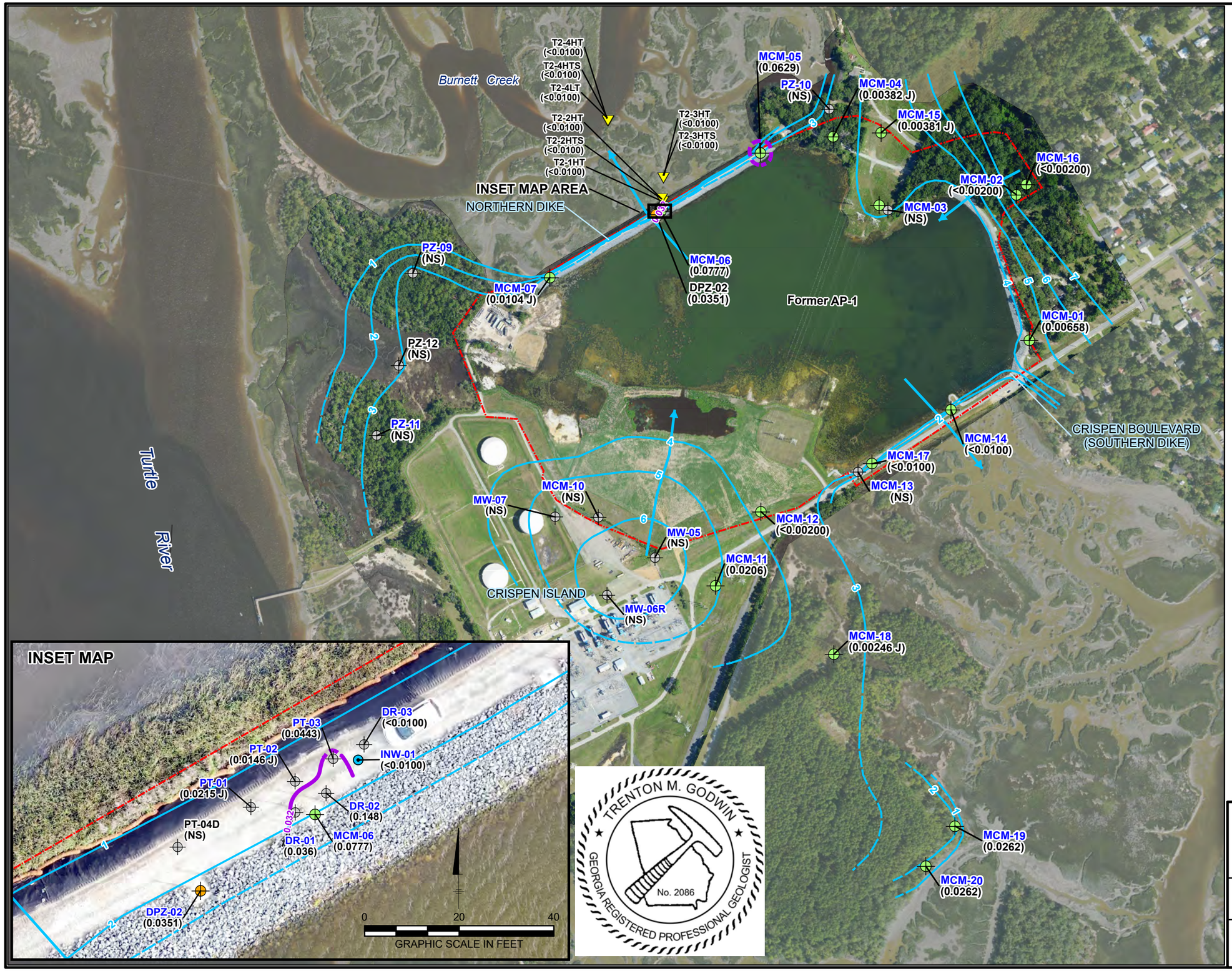
Roswell, GA | July 2026

Plant McManus
Former AP-1
Surface Water Sample Locations
Brunswick, GA

Figure

11

2026 Annual Groundwater Monitoring and Corrective Action Report



LEGEND

- PERMITTED CCR BOUNDARY
- DETECTION WELL
- INJECTION WELL
- PIEZOMETER
- ASSESSMENT WELL
- SURFACE WATER SAMPLE
- ARSENIC ISCONCENTRATION LINE (SEPTEMBER 2025) DASHED WHERE INFERRED
- MCM-01 (0.0043) WELL ID WITH ARSENIC CONCENTRATION (SEPTEMBER 2025 EXCEPT WHERE NOTED)
- 4 GROUNDWATER ELEVATION CONTOUR, FEET NAVD88

NOTES:

1. BLUE LABELS INDICATE WELL WAS USED FOR GROUNDWATER ELEVATION CONTOURING. BLACK LABELS ARE ARSENIC CONCENTRATIONS.
2. CONCENTRATIONS REPORTED IN MILLIGRAMS PER LITER (MG/L).
3. ASSESSMENT WELL DPZ-02 DATA ARE NOT USED IN ISOCONTOUR DEVELOPMENT.
4. NS = NOT SAMPLED.
5. J = ESTIMATED VALUE.
6. CCR = COAL COMBUSTION RESIDUALS
7. < = NOT DETECTED AT OR ABOVE METHOD DETECTION LIMIT.
8. ARSENIC GROUNDWATER PROTECTION STANDARD = 0.032 MILLIGRAMS PER LITER.
9. LOW TIDE GROUNDWATER CONTOURS BASED ON INTERPRETATION PRESENTED IN THE SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT (ENSAFE 2026).
10. ARSENIC RESULTS AT PIEZOMETERS PT-01, PT-02, AND DR-01 ARE FROM SAMPLES COLLECTED DURING APRIL 2025 SAMPLING EVENT.

COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA EAST FIPS 1001 FEET
NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988.

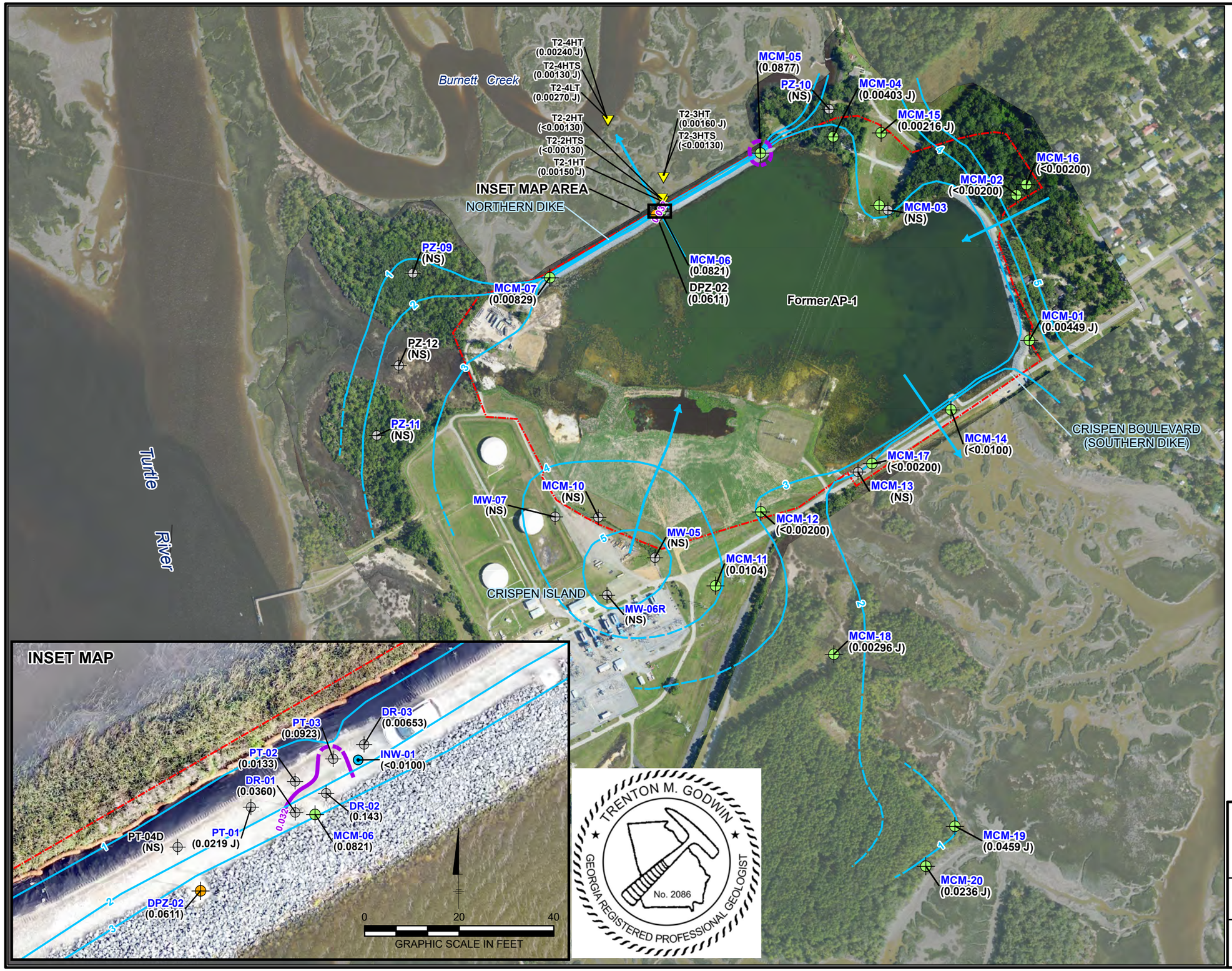
Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

ARSENIC ISOCONCENTRATION MAP SEPTEMBER 2025

ARCADIS

FIGURE **12**



LEGEND

- PERMITTED CCR BOUNDARY
- DETECTION WELL
- INJECTION WELL
- PIEZOMETER
- ASSESSMENT WELL
- SURFACE WATER SAMPLE
- ARSENIC ISCONCENTRATION LINE (MARCH 2026) DASHED WHERE INFERRED
- MCM-01 (0.0043) WELL ID WITH ARSENIC CONCENTRATION (MARCH 2026 EXCEPT WHERE NOTED)
- 4 GROUNDWATER ELEVATION CONTOUR, FEET NAVD88

NOTES:

1. BLUE LABELS INDICATE WELL WAS USED FOR GROUNDWATER ELEVATION CONTOURING. BLACK LABELS ARE ARSENIC CONCENTRATIONS.
2. CONCENTRATIONS REPORTED IN MILLIGRAMS PER LITER (MG/L).
3. ASSESSMENT WELL DPZ-02 DATA ARE NOT USED IN ISOCONTOUR DEVELOPMENT.
4. NS = NOT SAMPLED.
5. J = ESTIMATED VALUE.
6. CCR = COAL COMBUSTION RESIDUALS
7. < = NOT DETECTED AT OR ABOVE METHOD DETECTION LIMIT.
8. ARSENIC GROUNDWATER PROTECTION STANDARD = 0.032 MILLIGRAMS PER LITER.
9. LOW TIDE GROUNDWATER CONTOURS MARCH 2026.
10. ARSENIC RESULT AT PIEZOMETER DR-01 IS FROM THE SAMPLE COLLECTED DURING THE APRIL 2025 SAMPLING EVENT.
11. SURFACE WATER RESULTS FROM RESAMPLE EVENT IN MAY 2026.

0 500 1,000
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA EAST FIPS 1001 FEET
NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988.

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No. 2086
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST

Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

ARSENIC ISOCONCENTRATION MAP MARCH 2026

ARCADIS

FIGURE 13

APPENDIX A

WELL INSTALLATION, MAINTENANCE AND REPAIR DOCUMENTATION

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creative thinking. custom solutions.

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 9/8/2025

Permit Number: 063-030D (CCR)

Field Conditions: 80/67, 0% Rain

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)
MCM-01	YES	YES	NO	YES
MCM-02	YES	YES	NO	YES
MCM-04	YES	YES	NO	YES
MCM-05	YES	YES	NO	YES
MCM-06	YES	YES	NO	YES
MCM-07	YES	YES	NO	YES
MCM-11	YES	YES	NO	YES
MCM-12	YES	YES	NO	YES
MCM-14	YES	YES	NO	YES
MCM-15	YES	YES	NO	YES
MCM-16	YES	YES	NO	YES
MCM-17	YES	YES	NO	YES
MCM-18	YES	YES	NO	YES
MCM-19	YES	YES	NO	YES
MCM-20	YES	YES	NO	YES
DPZ-02	YES	YES	NO	YES
MW-01R	YES	YES	NO	YES
MW-02	YES	YES	NO	YES
MW-03	YES	YES	NO	YES
MW-04	YES	YES	NO	YES
MW-05	YES	YES	NO	YES
MW-06R	YES	YES	NO	YES
MW-07	YES	YES	NO	YES
MW-09	YES	YES	NO	YES
MW-10	YES	YES	NO	YES
MW-11	YES	YES	NO	YES
MW-12	YES	YES	NO	YES
MCM-03	YES	YES	NO	YES
MCM-08	YES	YES	NO	YES
MCM-10	YES	YES	NO	YES
MCM-13	YES	YES	NO	YES
PZ-09	YES	YES	NO	YES
PZ-10	YES	YES	NO	YES
PZ-11	YES	YES	NO	YES
PZ-12	YES	YES	NO	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 9/8/2025

Permit Number: 063-030D (CCR)

Field Conditions: 80/67, 0% Rain

	Location/Identification			
Well ID:	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)
DPZ-01	YES	YES	NO	YES
DPZ-03	YES	YES	NO	YES
DPZ-04	YES	YES	NO	YES
DPZ-05	YES	YES	NO	YES
DPZ-06	YES	YES	NO	YES
RW-1	YES	YES	NO	YES
RW-2	YES	YES	NO	YES
RW-3	YES	YES	NO	YES
RW-4	YES	YES	NO	YES
RW-5	YES	YES	NO	YES
RW-6	YES	YES	NO	YES
RW-7	YES	YES	NO	YES
RW-8	YES	YES	NO	YES
RW-9	YES	YES	NO	YES
RW-10	YES	YES	NO	YES
DR-01	YES	YES	NO	YES
DR-02	YES	YES	NO	YES
PT-01	YES	YES	NO	YES
PT-02	YES	YES	NO	YES
PT-03	YES	YES	NO	YES
PT-04D	YES	YES	NO	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 9/8/2025

Permit Number: 063-030D (CCR)

Field Conditions: 80/67, 0% Rain

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
MCM-01	YES	YES	YES	YES	YES
MCM-02	YES	YES	YES	YES	YES
MCM-04	YES	YES	YES	YES	YES
MCM-05	YES	YES	YES	YES	YES
MCM-06	YES	YES	YES	YES	YES
MCM-07	YES	YES	YES	YES	YES
MCM-11	YES	YES	YES	YES	YES
MCM-12	YES	YES	YES	YES	YES
MCM-14	YES	YES	YES	YES	YES
MCM-15	YES	YES	YES	YES	YES
MCM-16	YES	YES	YES	YES	YES
MCM-17	YES	YES	YES	YES	YES
MCM-18	YES	YES	YES	YES	YES
MCM-19	YES	YES	YES	YES	YES
MCM-20	YES	YES	YES	YES	YES
DPZ-02	YES	YES	YES	YES	YES
MW-01R	YES	YES	YES	YES	YES
MW-02	YES	YES	YES	YES	YES
MW-03	YES	YES	YES	YES	YES
MW-04	YES	YES	YES	YES	YES
MW-05	YES	YES	NO	YES	YES
MW-06R	YES	YES	YES	YES	YES
MW-07	YES	YES	YES	YES	YES
MW-09	YES	YES	YES	YES	YES
MW-10	YES	YES	YES	YES	YES
MW-11	YES	YES	YES	YES	YES
MW-12	YES	YES	YES	YES	YES
MCM-03	YES	YES	YES	YES	YES
MCM-08	YES	YES	YES	YES	YES
MCM-10	YES	YES	YES	YES	YES
MCM-13	YES	YES	YES	YES	YES
PZ-09	YES	YES	YES	YES	YES
PZ-10	YES	YES	YES	YES	YES
PZ-11	YES	YES	YES	YES	YES
PZ-12	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 9/8/2025

Permit Number: 063-030D (CCR)

Field Conditions: 80/67, 0% Rain

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
DPZ-01	YES	YES	YES	YES	YES
DPZ-03	YES	YES	YES	YES	YES
DPZ-04	YES	YES	YES	YES	YES
DPZ-05	YES	YES	YES	YES	YES
DPZ-06	YES	YES	YES	YES	YES
RW-1	YES	YES	YES	YES	YES
RW-2	YES	YES	YES	YES	YES
RW-3	YES	YES	YES	YES	YES
RW-4	YES	YES	YES	YES	YES
RW-5	YES	YES	YES	YES	YES
RW-6	YES	YES	YES	YES	YES
RW-7	YES	YES	YES	YES	YES
RW-8	YES	YES	YES	YES	YES
RW-9	YES	YES	YES	YES	YES
RW-10	YES	YES	YES	YES	YES
DR-01	YES	YES	YES	YES	YES
DR-02	YES	YES	YES	YES	YES
PT-01	YES	YES	YES	YES	YES
PT-02	YES	YES	YES	YES	YES
PT-03	YES	YES	YES	YES	YES
PT-04D	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 9/8/2025

Permit Number: 063-030D (CCR)

Field Conditions: 80/67, 0% Rain

	Surface Pad			Internal Casing		
Well ID:	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
MCM-01	YES	YES	YES	YES	YES	YES
MCM-02	YES	YES	YES	YES	YES	YES
MCM-04	YES	YES	YES	YES	YES	YES
MCM-05	YES	YES	YES	YES	YES	YES
MCM-06	YES	YES	YES	YES	YES	YES
MCM-07	YES	YES	YES	YES	YES	YES
MCM-11	YES	YES	YES	YES	YES	YES
MCM-12	YES	YES	YES	YES	YES	YES
MCM-14	YES	YES	YES	YES	YES	YES
MCM-15	YES	YES	YES	YES	YES	YES
MCM-16	YES	YES	YES	YES	YES	YES
MCM-17	YES	YES	YES	YES	YES	YES
MCM-18	YES	YES	YES	YES	YES	YES
MCM-19	YES	YES	YES	YES	YES	YES
MCM-20	YES	YES	YES	YES	YES	YES
DPZ-02	YES	YES	YES	YES	YES	YES
MW-01R	YES	YES	YES	YES	YES	YES
MW-02	NO	YES	YES	YES	YES	YES
MW-03	YES	YES	YES	YES	YES	YES
MW-04	YES	YES	YES	YES	YES	YES
MW-05	YES	YES	YES	YES	YES	YES
MW-06R	YES	YES	YES	YES	YES	YES
MW-07	YES	YES	YES	YES	YES	YES
MW-09	YES	YES	YES	YES	YES	YES
MW-10	YES	YES	YES	YES	YES	YES
MW-11	YES	YES	YES	YES	YES	YES
MW-12	YES	YES	YES	YES	YES	YES
MCM-03	YES	YES	YES	YES	YES	YES
MCM-08	YES	YES	YES	YES	YES	YES
MCM-10	YES	YES	YES	YES	YES	YES
MCM-13	YES	YES	YES	YES	YES	YES
PZ-09	YES	YES	YES	YES	YES	YES
PZ-10	YES	YES	YES	YES	YES	YES
PZ-11	YES	YES	YES	YES	YES	YES
PZ-12	YES	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 9/8/2025

Permit Number: 063-030D (CCR)

Field Conditions: 80/67, 0% Rain

	Surface Pad			Internal Casing		
Well ID:	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
DPZ-01	YES	YES	YES	YES	YES	YES
DPZ-03	YES	YES	YES	YES	YES	YES
DPZ-04	YES	YES	YES	YES	YES	YES
DPZ-05	YES	YES	YES	YES	YES	YES
DPZ-06	YES	YES	YES	YES	YES	YES
RW-1	YES	YES	YES	YES	YES	YES
RW-2	YES	YES	YES	YES	YES	YES
RW-3	YES	YES	YES	YES	YES	YES
RW-4	YES	YES	YES	YES	YES	YES
RW-5	YES	YES	YES	YES	YES	YES
RW-6	YES	YES	YES	YES	YES	YES
RW-7	YES	YES	YES	YES	YES	YES
RW-8	YES	YES	YES	YES	YES	YES
RW-9	YES	YES	YES	YES	YES	YES
RW-10	YES	YES	YES	YES	YES	YES
DR-01	YES	YES	YES	YES	YES	YES
DR-02	YES	YES	YES	YES	YES	YES
PT-01	YES	YES	YES	YES	YES	YES
PT-02	YES	YES	YES	YES	YES	YES
PT-03	YES	YES	YES	YES	YES	YES
PT-04D	YES	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 9/8/2025

Permit Number: 063-030D (CCR)

Field Conditions: 80/67, 0% Rain

Well ID:	Corrective actions as needed, by date:
MCM-01	
MCM-02	
MCM-04	
MCM-05	
MCM-06	
MCM-07	
MCM-11	
MCM-12	
MCM-14	
MCM-15	
MCM-16	
MCM-17	
MCM-18	
MCM-19	Ballard needs replacement
MCM-20	
DPZ-02	
MW-01R	
MW-02	
MW-03	
MW-04	
MW-05	Weep hole will be drilled during next sampling event
MW-06R	
MW-07	
MW-09	
MW-10	
MW-11	
MW-12	
MCM-03	
MCM-08	
MCM-10	
MCM-13	
PZ-09	
PZ-10	
PZ-11	
PZ-12	

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 9/8/2025

Permit Number: 063-030D (CCR)

Field Conditions: 80/67, 0% Rain

Well ID:	Corrective actions as needed, by date:
DPZ-01	
DPZ-03	
DPZ-04	
DPZ-05	
DPZ-06	
RW-1	
RW-2	
RW-3	
RW-4	
RW-5	
RW-6	
RW-7	
RW-8	
RW-9	
RW-10	
DR-01	
DR-02	
PT-01	
PT-02	
PT-03	
PT-04D	

WELL ABANDONMENT REPORT

PLANT McMANUS
FORMER ASH POND 1
GLYNN COUNTY, GEORGIA

FOR

Georgia Power

December 2025

ENSAFE

1080 Holcomb Bridge Road, Building 200 Suite 340, Roswell, Georgia 30076

TABLE OF CONTENTS

TABLE OF CONTENTS.....II
I. CERTIFICATION..... 1
1. INTRODUCTION..... 2
2. WELL ABANDONMENTS..... 3

LIST OF FIGURES

Figure 1 – Well and Piezometer Location Map

LIST OF TABLES

Table 1 – Piezometer Construction Data

APPENDIX

Appendix A – Well Abandonment Logs

I. CERTIFICATION

I hereby certify that this *Well Abandonment Report, Plant McManus Former Ash Pond 1* was prepared by, or under the direct supervision of, a "Qualified Groundwater Scientist," in accordance with the Rules of Solid Waste Management. According to 391-3-4-.01(57), a Qualified Groundwater Scientist is "a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action." The design of the groundwater monitoring system was developed in compliance with the Georgia Environmental Protection Division (EPD) Rules of Solid Waste Management, Chapter 391-3-4.10(6)

Signature: _____

Date: December 4, 2025

1. INTRODUCTION

This report has been prepared to summarize abandonment of the following wells: MCM-03, MCM-13, DPZ-04, DPZ-05, DPZ-06, RW-1, RW-2, RW-3, RW-4, RW-5, RW-6, RW-7, RW-8, RW-9, RW-10, PZ-10, PZ-12, and PZ-14A (**Figure 1**). Abandonment procedures began on October 13th 2025 and concluded on October 17th 2025. This report contains the Well Abandonment Logs (**Appendix A**) for each well.

Additionally, this report certifies that temporary piezometers TPZ-1 through TPZ-5 were previously abandoned. In March 2019, temporary piezometers (TPZ-1 through -5) were placed inside the former AP-1 and in the marsh, north of the northern dike and south of the Crispen Island Drive dike in order to further evaluate both groundwater flow directions/velocities and the tidal influence in the groundwater system. These piezometers consisted of one 5-foot section of 1-inch well screen that was manually (by hand) advanced approximately 1.5 feet into the soft sediment of the respective location. Temporary piezometers TPZ-3, TPZ-4, and TPZ-5 were decommissioned prior to January 23, 2020 by manually removing the 5-foot well screen and transducer from the sediment at which time the soft sediments would immediately collapse upon itself. The *Hydrological Assessment Report (HAR) Rev4*, dated June 2020, notes piezometers TPZ-3 through TPZ-5 as abandoned in Table 3, *Groundwater Elevation Data*. TPZ-1 and TPZ-2 were located in the marsh outside of the permit boundary of former AP-1. They were maintained until June of 2020 and were decommissioned using a procedure consistent with the that described for TPZ-3 through TPZ-5 above. The TPZ locations were visually inspected during the 2025 abandonment activities to verify removal. No evidence of the TPZ piezometers was observed.

2. WELL ABANDONMENTS

Georgia Power submitted a *Request for Minor Modification to Update Groundwater Monitoring Network*, dated September 12, 2025, to Georgia Environmental Protection Division (GA EPD) as notification of intent to abandon 18 piezometers and to remove an additional 10 piezometers from routine water level gauging as part of the groundwater monitoring network. GA EPD approved the *Request for Minor Modification to Solid Waste Handling Permit* (Minor Modification) in a letter dated October 10, 2025. In accordance with the approval letter, Georgia Power abandoned these wells under "Option 2" which states "The use of fine sand for backfill in the screened interval of the wells then tremie grout to surface with a high total dissolved solids (TDS) clay/cement mix. This option also includes removal of the upper three feet of well casing at ground surface."

The well abandonments were conducted in accordance with the *Groundwater Monitoring Plan, Plant McManus – Inactive Ash Pond AP-1, Glynn County, Georgia*, dated February 2021, and the United States Environmental Protection Agency, Region 4 Science and Ecosystem Support Division, Operating Procedure for *Design and Installation of Monitoring Wells* (SESDGUID-101-R2 January 16, 2018). Well abandonments were conducted by UES and overseen by a Georgia-licensed professional geologist (PG)).

Piezometer abandonments were completed using the following procedures:

- The well screened interval was filled with fine sand and measured to assure the sand was above the well screen. The remainder of the casing was backfilled with the appropriate grout material (80% Portland cement and 20% high TDS clay). The backfill material was placed into the well casing from the top of the sand backfill, bottom to the top, utilizing pressure grouting with the positive displacement method (Tremie method).

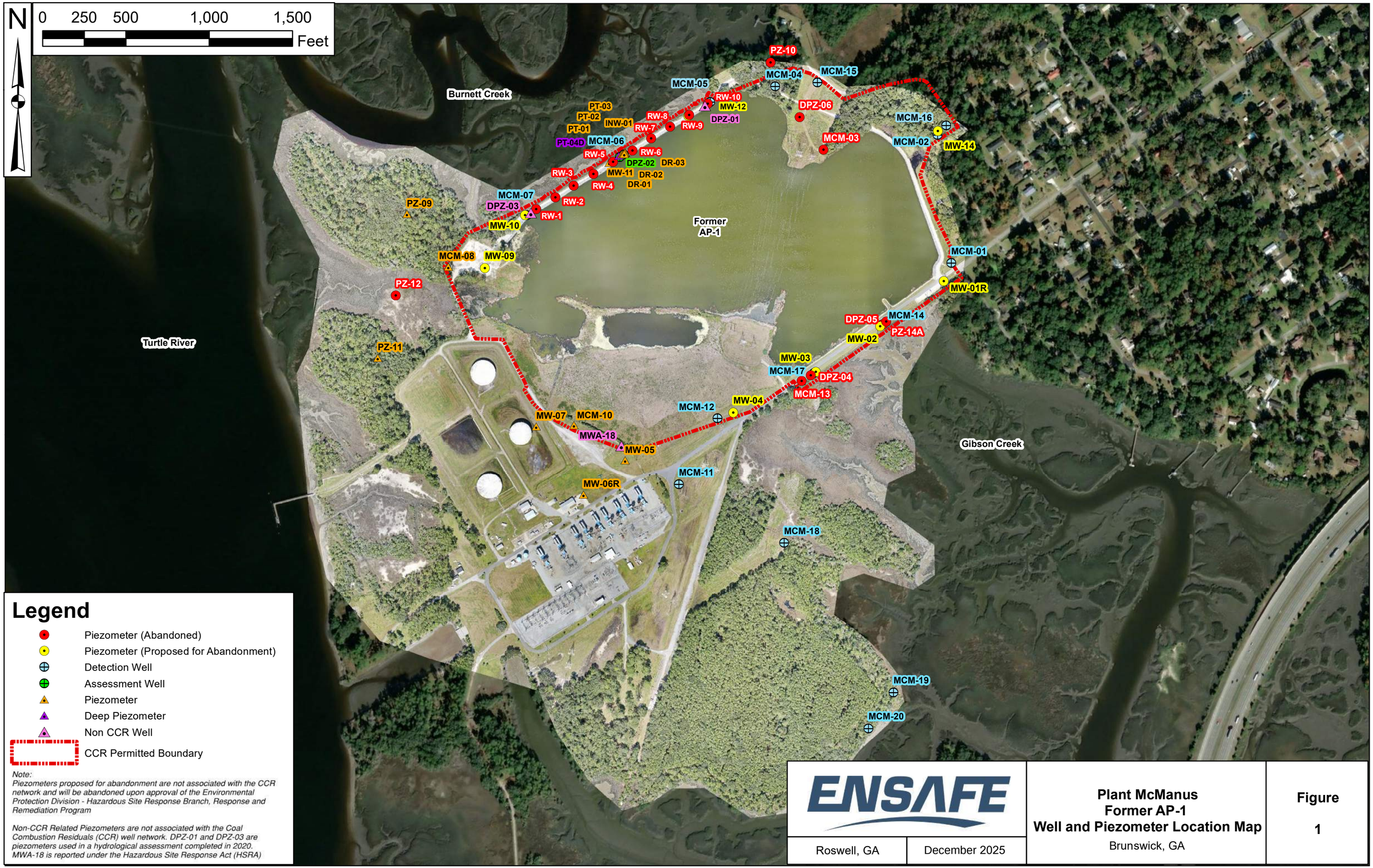
- The grout mixture was allowed a 24-hour setting period, after which the surface completions (e.g., concrete well pads, steel casings, bollards) were removed and segregated for proper disposal.

- Well casing was removed from top of casing to a depth of approximately one foot below ground surface (bgs) for wells located on the dikes to maintain dike stability, and to a depth of approximately three feet bgs for wells located off the dikes, using an excavator. Additional grout was added to the top of the remaining well casing, if needed, to inhibit infiltration.

- Former piezometer surface completion depressions that remained after the abandonment were restored to match surrounding surface conditions.

Well abandonment logs (**Appendix A**) were completed for each location to document the date of well abandonment, abandonment method, length of casing extracted and/or left in the ground, volume of sand and grout emplaced, and any other pertinent information regarding issues encountered during the well decommissioning process.

Figure 1 – Well and Piezometer Location Map



Legend

- Piezometer (Abandoned)
- Piezometer (Proposed for Abandonment)
- Detection Well
- Assessment Well
- Piezometer
- Deep Piezometer
- Non CCR Well
- CCR Permitted Boundary

Note:
Piezometers proposed for abandonment are not associated with the CCR network and will be abandoned upon approval of the Environmental Protection Division - Hazardous Site Response Branch, Response and Remediation Program

Non-CCR Related Piezometers are not associated with the Coal Combustion Residuals (CCR) well network. DPZ-01 and DPZ-03 are piezometers used in a hydrological assessment completed in 2020. MWA-18 is reported under the Hazardous Site Response Act (HSRA)

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Roswell, GA | December 2025

Plant McManus
Former AP-1
Well and Piezometer Location Map
Brunswick, GA

Figure
1

Table 1 – Piezometer Construction Data

Table 1
Well Abandonments
Piezometer Construction Data
Plant McManus
Brunswick, GA

Well ID	Top of Casing Elevation (ft NAVD 88)	March 2025			Total Depth (ft BTOC)	Well Bottom Elevation (ft NAVD 88)	Top of Screen Elevation (ft NAVD 88)
		Tidal Stage	Depth to Water (ft BTOC)	Groundwater Elevation (ft NAVD 88)			
MCM-03	9.97	LT	5.88	4.09	27.70	-17.73	-7.73
		HT	5.79	4.18			
MCM-13	12.56	LT	10.13	2.43	27.46	-14.90	-4.90
		HT	9.66	2.90			
PZ-10	12.17	LT	9.22	2.95	22.91	-10.26	-0.26
		HT	8.74	3.43			
PZ-12	7.90	LT	5.35	2.55	18.70	-10.72	-5.72
		HT	5.31	2.59			
DPZ-04	11.45	LT	9.27	2.18	51.23	-39.70	-34.70
		HT	8.49	2.96			
DPZ-05	11.00	LT	8.22	2.78	51.20	-40.12	-35.12
		HT	7.70	3.30			
DPZ-06	12.04	LT	8.03	4.01	40.50	-28.38	-23.38
		HT	7.79	4.25			
RW-1	9.46	LT	7.45	2.01	26.42	-16.96	-6.96
		HT	7.56	1.90			
RW-2	9.76	LT	7.52	2.24	27.27	-17.51	-7.51
		HT	7.70	2.06			
RW-3	9.69	LT	7.07	2.62	32.29	-22.60	-12.60
		HT	6.81	2.88			
RW-4	9.43	LT	6.73	2.70	26.88	-17.45	-7.45
		HT	6.55	2.88			
RW-5	9.98	LT	8.61	1.37	37.22	-17.24	-7.24
		HT	7.32	2.66			
RW-6	10.07	LT	7.71	2.36	36.58	-26.51	-6.51
		HT	7.20	2.87			
RW-7	9.72	LT	8.44	1.28	38.17	-28.45	-13.45
		HT	7.05	2.67			
RW-8	9.95	LT	7.77	2.18	31.62	-21.67	-6.67
		HT	7.21	2.74			
RW-9	10.05	LT	8.24	1.81	37.71	-27.66	-12.66
		HT	6.98	3.07			
RW-10	10.36	LT	8.46	1.90	37.80	-27.44	-12.44
		HT	7.27	3.09			
Non-CCR Well Network Piezometer							
PZ-14A*	11.10	NA	NA	NA	15.10	-4.00	6.10

Notes:

* PZ-14A is a piezometer not associated with the CCR well network that is located within the CCR Permit Boundary of former AP-1.

Elevations shown are in datum NAVD88, which indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.

ft BTOC - feet below top of casing

LT - Low Tide Measurement

HT - High Tide Measurement

NA - indicates not applicable

Appendix A – Well Abandonment Logs

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WELL ABANDONMENT DATA

PROJECT: Plant McManus Former Ash Pond 1 (AP-1) Well Abandonment		**WELL NO.:** DPZ-04	
SITE: Plant McManus Former Ash Pond 1		**COORDINATES:**	N 443062.60 E 851881.94
FORM PREPARED BY: Natalie Piparo **ABANDONMENT BY:** UES		**DATE GROUTED:**	10/14/2025
METHOD OF FILLING: Fine Sand, Bentonite-Portland Mix via Tremie Pipe		**VOLUME USED:**	6.5 gallons grout mix, 66 gallons of sand
TOP OF CASING ELEVATION:	11.45 ft	**WELL OUTER DIAMETER:**	2 in
DEPTH SOUNDED BELOW TOC PRIOR TO FILLING/GROUTING:	51.17 ft	**DEPTH TO WATER BELOW TOC PRIOR TO GROUTING:**	7.86 ft

		DEPTH:	ELEV.:
	GROUND SURFACE	0.00 ft	8.96 ft
GROUT	GROUT (to surface)	27.53 ft	-18.55 ft
SAND	SAND TOP OF SCREEN	43.68 ft	-34.7 ft
	BOTTOM OF WELL	48.68 ft	-39.7 ft

REMARKS:

Grout mix was approximately 80% Portland cement and 20% high TDS clay

Sand and grout were placed via tremie method

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WELL ABANDONMENT DATA

PROJECT: Plant McManus Former Ash Pond 1 (AP-1) Well Abandonment		**WELL NO.:** DPZ-05	
SITE: Plant McManus Former Ash Pond 1		**COORDINATES:**	N 443376.32 E 852342.11
FORM PREPARED BY: Natalie Piparo **ABANDONMENT BY:** UES		**DATE GROUTED:**	10/14/2025
METHOD OF FILLING: Fine Sand, Bentonite-Portland Mix via Tremie Pipe		**VOLUME USED:**	5 gallons grout mix, 76 gallons of sand
TOP OF CASING ELEVATION:	11.00 ft	**WELL OUTER DIAMETER:**	2 in
DEPTH SOUNDED BELOW TOC PRIOR TO FILLING/GROUTING:	51.11 ft	**DEPTH TO WATER BELOW TOC PRIOR TO GROUTING:**	6.61 ft

			DEPTH:	ELEV.:
	GROUND SURFACE		0.00 ft	8.6 ft
GROUT	GROUT (to surface)		24.58 ft	-15.99 ft
SAND	SAND TOP OF SCREEN		43.71 ft	-35.12 ft
	BOTTOM OF WELL		48.71 ft	-40.12 ft

REMARKS:

Grout mix was approximately 80% Portland cement and 20% high TDS clay

Sand and grout were placed via tremie method

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WELL ABANDONMENT DATA

PROJECT: Plant McManus Former Ash Pond 1 (AP-1) Well Abandonment		**WELL NO.:** DPZ-06	
SITE: Plant McManus Former Ash Pond 1		**COORDINATES:**	N 444614.79 E 851846.27
FORM PREPARED BY: Natalie Piparo **ABANDONMENT BY:** UES		**DATE GROUTED:**	10/15/2025
METHOD OF FILLING: Fine Sand, Bentonite-Portland Mix via Tremie Pipe		**VOLUME USED:**	2 gallons grout mix, 81 gallons of sand
TOP OF CASING ELEVATION:	12.04 ft	**WELL OUTER DIAMETER:**	2 in
DEPTH SOUNDED BELOW TOC PRIOR TO FILLING/GROUTING:	40.48 ft	**DEPTH TO WATER BELOW TOC PRIOR TO GROUTING:**	8.02 ft

			DEPTH:	ELEV.:
	GROUND SURFACE		0.00 ft	9.59 ft
GROUT	GROUT (to surface)		12.1 ft	-2.45 ft
SAND	SAND TOP OF SCREEN		33.03 ft	-23.38 ft
	BOTTOM OF WELL		38.03 ft	-28.38 ft

REMARKS:

Grout mix was approximately 80% Portland cement and 20% high TDS clay

Sand and grout were placed via tremie method

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WELL ABANDONMENT DATA

PROJECT: Plant McManus Former Ash Pond 1 (AP-1) Well Abandonment		**WELL NO.:** MCM-03	
SITE: Plant McManus Former Ash Pond 1		**COORDINATES:**	N 444414.88 E 851984.67
FORM PREPARED BY: Natalie Piparo **ABANDONMENT BY:** UES		**DATE GROUTED:**	10/15/2025
METHOD OF FILLING: Fine Sand, Bentonite-Portland Mix via Tremie Pipe		**VOLUME USED:**	4 gallons grout mix, 48 gallons of sand
TOP OF CASING ELEVATION:	9.97 ft	**WELL OUTER DIAMETER:**	2 in
DEPTH SOUNDED BELOW TOC PRIOR TO FILLING/GROUTING:	27.72 ft	**DEPTH TO WATER BELOW TOC PRIOR TO GROUTING:**	5.67 ft

			DEPTH:	ELEV.:
	GROUND SURFACE		0.00 ft	7.1 ft
GROUT	GROUT (to surface)		9.43 ft	-2.31 ft
SAND	SAND TOP OF SCREEN		14.85 ft	-7.73 ft
	BOTTOM OF WELL		24.85 ft	-17.73 ft

REMARKS:

Grout mix was approximately 80% Portland cement and 20% high TDS clay

Sand and grout were placed via tremie method

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WELL ABANDONMENT DATA

PROJECT: Plant McManus Former Ash Pond 1 (AP-1) Well Abandonment		**WELL NO.:** MCM-13	
SITE: Plant McManus Former Ash Pond 1		**COORDINATES:**	N 443030.23 E 851826.19
FORM PREPARED BY: Natalie Piparo **ABANDONMENT BY:** UES		**DATE GROUTED:**	10/14/2025
METHOD OF FILLING: Fine Sand, Bentonite-Portland Mix via Tremie Pipe		**VOLUME USED:**	5 gallons grout mix, 53 gallons of sand
TOP OF CASING ELEVATION:	12.56 ft	**WELL OUTER DIAMETER:**	2 in
DEPTH SOUNDED BELOW TOC PRIOR TO FILLING/GROUTING:	27.48 ft	**DEPTH TO WATER BELOW TOC PRIOR TO GROUTING:**	9.26 ft

			DEPTH:	ELEV.:
	GROUND SURFACE		0.00 ft	9.79 ft
GROUT	GROUT (to surface)		7.73 ft	2.08 ft
SAND	SAND TOP OF SCREEN		14.71 ft	-4.9 ft
	BOTTOM OF WELL		24.71 ft	-14.9 ft

REMARKS:

Grout mix was approximately 80% Portland cement and 20% high TDS clay

Sand and grout were placed via tremie method

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WELL ABANDONMENT DATA

PROJECT: Plant McManus Former Ash Pond 1 (AP-1) Well Abandonment		**WELL NO.:** PZ-10	
SITE: Plant McManus Former Ash Pond 1		**COORDINATES:**	N 444949.09 E 851673.98
FORM PREPARED BY: Natalie Piparo **ABANDONMENT BY:** UES		**DATE GROUTED:**	10/15/2025
METHOD OF FILLING: Fine Sand, Bentonite-Portland Mix via Tremie Pipe		**VOLUME USED:**	1 gallon grout mix, 52 gallons of sand
TOP OF CASING ELEVATION:	12.17 ft	**WELL OUTER DIAMETER:**	2 in
DEPTH SOUNDED BELOW TOC PRIOR TO FILLING/GROUTING:	22.94 ft	**DEPTH TO WATER BELOW TOC PRIOR TO GROUTING:**	12.37 ft

			DEPTH:	ELEV.:
	GROUND SURFACE		0.00 ft	9.74 ft
GROUT	GROUT (to surface)		3.87 ft	6.38 ft
SAND	SAND TOP OF SCREEN		10.51 ft	-0.26 ft
	BOTTOM OF WELL		20.51 ft	-10.26 ft

REMARKS:

Grout mix was approximately 80% Portland cement and 20% high TDS clay

Sand and grout were placed via tremie method

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WELL ABANDONMENT DATA

PROJECT: Plant McManus Former Ash Pond 1 (AP-1) Well Abandonment		**WELL NO.:** PZ-12	
SITE: Plant McManus Former Ash Pond 1		**COORDINATES:**	N 443593.34 E 849396.87
FORM PREPARED BY: Natalie Piparo **ABANDONMENT BY:** UES		**DATE GROUTED:**	10/14/2025
METHOD OF FILLING: Fine Sand, Bentonite-Portland Mix via Tremie Pipe		**VOLUME USED:**	1 gallon grout mix, 31 gallons of sand
TOP OF CASING ELEVATION:	7.90 ft	**WELL OUTER DIAMETER:**	2 in
DEPTH SOUNDED BELOW TOC PRIOR TO FILLING/GROUTING:	18.70 ft	**DEPTH TO WATER BELOW TOC PRIOR TO GROUTING:**	5.02 ft

			DEPTH:	ELEV.:
	GROUND SURFACE		0.00 ft	5.02 ft
GROUT	GROUT (to surface)		2.94 ft	-0.72 ft
SAND	SAND TOP OF SCREEN		10.82 ft	-5.72 ft
	BOTTOM OF WELL		15.82 ft	-10.72 ft

REMARKS:

Grout mix was approximately 80% Portland cement and 20% high TDS clay

Sand and grout were placed via tremie method

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WELL ABANDONMENT DATA

PROJECT: Plant McManus Former Ash Pond 1 (AP-1) Well Abandonment		**WELL NO.:** PZ-14A	
SITE: Plant McManus Former Ash Pond 1		**COORDINATES:**	N 443362.29 E 852322.73
FORM PREPARED BY: Natalie Piparo **ABANDONMENT BY:** UES		**DATE GROUTED:**	10/14/2025
METHOD OF FILLING: Fine Sand, Bentonite-Portland Mix via Tremie Pipe		**VOLUME USED:**	1 gallon grout mix, 40 gallons of sand
TOP OF CASING ELEVATION:	11.10 ft	**WELL OUTER DIAMETER:**	2 in
DEPTH SOUNDED BELOW TOC PRIOR TO FILLING/GROUTING:	15.11 ft	**DEPTH TO WATER BELOW TOC PRIOR TO GROUTING:**	6.88 ft

			DEPTH:	ELEV.:
	GROUND SURFACE		0.00 ft	8.48 ft
GROUT	GROUT (to surface)		0.05 ft	5.96
SAND	SAND TOP OF SCREEN		2.64 ft	3.37 ft
	BOTTOM OF WELL		12.64 ft	-6.63 ft

REMARKS:

Grout mix was approximately 80% Portland cement and 20% high TDS clay

Sand and grout were placed via tremie method

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WELL ABANDONMENT DATA

PROJECT: Plant McManus Former Ash Pond 1 (AP-1) Well Abandonment		**WELL NO.:** RW-1	
SITE: Plant McManus Former Ash Pond 1		**COORDINATES:**	N 444093.78 E 850251.19
FORM PREPARED BY: Natalie Piparo **ABANDONMENT BY:** UES		**DATE GROUTED:**	10/15/2025
METHOD OF FILLING: Fine Sand, Bentonite-Portland Mix via Tremie Pipe		**VOLUME USED:**	15 gallons grout mix, 462 gallons of sand
TOP OF CASING ELEVATION:	9.46 ft	**WELL OUTER DIAMETER:**	6 in
DEPTH SOUNDED BELOW TOC PRIOR TO FILLING/GROUTING:	26.65 ft	**DEPTH TO WATER BELOW TOC PRIOR TO GROUTING:**	6.42 ft

			DEPTH:	ELEV.:
	GROUND SURFACE		0.00 ft	7.64 ft
GROUT	GROUT (to surface)		8.48 ft	-0.61 ft
SAND	SAND TOP OF SCREEN		14.83 ft	-6.96 ft
	BOTTOM OF WELL		24.83 ft	-16.96 ft

REMARKS:

Grout mix was approximately 80% Portland cement and 20% high TDS clay

Sand and grout were placed via tremie method

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WELL ABANDONMENT DATA

PROJECT: Plant McManus Former Ash Pond 1 (AP-1) Well Abandonment		**WELL NO.:** RW-2	
SITE: Plant McManus Former Ash Pond 1		**COORDINATES:**	N 444161.86 E 850367.1
FORM PREPARED BY: Natalie Piparo **ABANDONMENT BY:** UES		**DATE GROUTED:**	10/15/2025
METHOD OF FILLING: Fine Sand, Bentonite-Portland Mix via Tremie Pipe		**VOLUME USED:**	5 gallons grout mix, 460 gallons of sand
TOP OF CASING ELEVATION:	9.76 ft	**WELL OUTER DIAMETER:**	6 in
DEPTH SOUNDED BELOW TOC PRIOR TO FILLING/GROUTING:	27.27 ft	**DEPTH TO WATER BELOW TOC PRIOR TO GROUTING:**	6.04 ft

			DEPTH:	ELEV.:
	GROUND SURFACE		0.00 ft	7.29 ft
GROUT	GROUT (to surface)		8.53 ft	-1.24 ft
SAND	SAND TOP OF SCREEN		14.8 ft	-7.51 ft
	BOTTOM OF WELL		24.8 ft	-17.51 ft

REMARKS:

Grout mix was approximately 80% Portland cement and 20% high TDS clay

Sand and grout were placed via tremie method

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WELL ABANDONMENT DATA

PROJECT: Plant McManus Former Ash Pond 1 (AP-1) Well Abandonment		**WELL NO.:** RW-3	
SITE: Plant McManus Former Ash Pond 1		**COORDINATES:**	N 444228.54 E 850479.64
FORM PREPARED BY: Natalie Piparo **ABANDONMENT BY:** UES		**DATE GROUTED:**	10/15/2025
METHOD OF FILLING: Fine Sand, Bentonite-Portland Mix via Tremie Pipe		**VOLUME USED:**	15 gallons grout mix, 512 gallons of sand
TOP OF CASING ELEVATION:	9.69 ft	**WELL OUTER DIAMETER:**	6 in
DEPTH SOUNDED BELOW TOC PRIOR TO FILLING/GROUTING:	31.3 ft	**DEPTH TO WATER BELOW TOC PRIOR TO GROUTING:**	6.56 ft

			DEPTH:	ELEV.:
	GROUND SURFACE		0.00 ft	7.23 ft
GROUT	GROUT (to surface)		10.74 ft	-4.5 ft
SAND	SAND TOP OF SCREEN		18.84 ft	-12.6 ft
	BOTTOM OF WELL		28.84 ft	-22.6 ft

REMARKS:

Grout mix was approximately 80% Portland cement and 20% high TDS clay

Sand and grout were placed via tremie method

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WELL ABANDONMENT DATA

PROJECT: Plant McManus Former Ash Pond 1 (AP-1) Well Abandonment		**WELL NO.:** RW-4	
SITE: Plant McManus Former Ash Pond 1		**COORDINATES:**	N 444299.42 E 850599.01
FORM PREPARED BY: Natalie Piparo **ABANDONMENT BY:** UES		**DATE GROUTED:**	10/15/2025
METHOD OF FILLING: Fine Sand, Bentonite-Portland Mix via Tremie Pipe		**VOLUME USED:**	15 gallons grout mix, 509 gallons of sand
TOP OF CASING ELEVATION:	9.43 ft	**WELL OUTER DIAMETER:**	6 in
DEPTH SOUNDED BELOW TOC PRIOR TO FILLING/GROUTING:	26.9 ft	**DEPTH TO WATER BELOW TOC PRIOR TO GROUTING:**	6.26 ft

			DEPTH:	ELEV.:
	GROUND SURFACE		0.00 ft	7.4 ft
GROUT	GROUT (to surface)		6.87 ft	0.55 ft
SAND	SAND TOP OF SCREEN		14.87 ft	-7.45 ft
	BOTTOM OF WELL		24.87 ft	-17.45 ft

REMARKS:

Grout mix was approximately 80% Portland cement and 20% high TDS clay

Sand and grout were placed via tremie method

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WELL ABANDONMENT DATA

PROJECT: Plant McManus Former Ash Pond 1 (AP-1) Well Abandonment		**WELL NO.:** RW-5	
SITE: Plant McManus Former Ash Pond 1		**COORDINATES:**	N 444369.89 E 850714.06
FORM PREPARED BY: Natalie Piparo **ABANDONMENT BY:** UES		**DATE GROUTED:**	10/15/2025
METHOD OF FILLING: Fine Sand, Bentonite-Portland Mix via Tremie Pipe		**VOLUME USED:**	22 gallons grout mix, 538 gallons of sand
TOP OF CASING ELEVATION:	9.98 ft	**WELL OUTER DIAMETER:**	6 in
DEPTH SOUNDED BELOW TOC PRIOR TO FILLING/GROUTING:	37.6 ft	**DEPTH TO WATER BELOW TOC PRIOR TO GROUTING:**	8.16 ft

			DEPTH:	ELEV.:
	GROUND SURFACE		0.00 ft	7.42 ft
GROUT	GROUT (to surface)		15.99 ft	1.81 ft
SAND	SAND TOP OF SCREEN		25.04 ft	-7.24 ft
	BOTTOM OF WELL		35.04 ft	-17.24 ft

REMARKS:

Grout mix was approximately 80% Portland cement and 20% high TDS clay

Sand and grout were placed via tremie method

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WELL ABANDONMENT DATA

PROJECT: Plant McManus Former Ash Pond 1 (AP-1) Well Abandonment		**WELL NO.:** RW-6	
SITE: Plant McManus Former Ash Pond 1		**COORDINATES:**	N 444436.29 E 850831.76
FORM PREPARED BY: Natalie Piparo **ABANDONMENT BY:** UES		**DATE GROUTED:**	10/15/2025
METHOD OF FILLING: Fine Sand, Bentonite-Portland Mix via Tremie Pipe		**VOLUME USED:**	15 gallons grout mix, 761 gallons of sand
TOP OF CASING ELEVATION:	10.07 ft	**WELL OUTER DIAMETER:**	6 in
DEPTH SOUNDED BELOW TOC PRIOR TO FILLING/GROUTING:	36.54 ft	**DEPTH TO WATER BELOW TOC PRIOR TO GROUTING:**	7.29 ft

			DEPTH:	ELEV.:
	GROUND SURFACE		0.00 ft	7.5 ft
GROUT	GROUT (to surface)		7.03 ft	0.43 ft
SAND	SAND TOP OF SCREEN		13.97 ft	-6.51 ft
	BOTTOM OF WELL		33.97 ft	-26.51 ft

REMARKS:

Grout mix was approximately 80% Portland cement and 20% high TDS clay

Sand and grout were placed via tremie method

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WELL ABANDONMENT DATA

PROJECT: Plant McManus Former Ash Pond 1 (AP-1) Well Abandonment		**WELL NO.:** RW-7	
SITE: Plant McManus Former Ash Pond 1		**COORDINATES:**	N 444504.22 E 850949.51
FORM PREPARED BY: Natalie Piparo **ABANDONMENT BY:** UES		**DATE GROUTED:**	10/15/2025
METHOD OF FILLING: Fine Sand, Bentonite-Portland Mix via Tremie Pipe		**VOLUME USED:**	15 gallons grout mix, 692 gallons of sand
TOP OF CASING ELEVATION:	9.72 ft	**WELL OUTER DIAMETER:**	6 in
DEPTH SOUNDED BELOW TOC PRIOR TO FILLING/GROUTING:	38.1 ft	**DEPTH TO WATER BELOW TOC PRIOR TO GROUTING:**	7.98 ft

			DEPTH:	ELEV.:
	GROUND SURFACE		0.00 ft	7.27 ft
GROUT	GROUT (to surface)		11.15 ft	-3.95 ft
SAND	SAND TOP OF SCREEN		20.65 ft	-13.45 ft
	BOTTOM OF WELL		35.65 ft	-28.45 ft

REMARKS:

Grout mix was approximately 80% Portland cement and 20% high TDS clay

Sand and grout were placed via tremie method

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WELL ABANDONMENT DATA

PROJECT: Plant McManus Former Ash Pond 1 (AP-1) Well Abandonment		**WELL NO.:** RW-8	
SITE: Plant McManus Former Ash Pond 1		**COORDINATES:**	N 444572.83 E 851064.32
FORM PREPARED BY: Natalie Piparo **ABANDONMENT BY:** UES		**DATE GROUTED:**	10/16/2025
METHOD OF FILLING: Fine Sand, Bentonite-Portland Mix via Tremie Pipe		**VOLUME USED:**	15 gallons grout mix, 531 gallons of sand
TOP OF CASING ELEVATION:	9.95 ft	**WELL OUTER DIAMETER:**	6 in
DEPTH SOUNDED BELOW TOC PRIOR TO FILLING/GROUTING:	32.84 ft	**DEPTH TO WATER BELOW TOC PRIOR TO GROUTING:**	6.77 ft

			DEPTH:	ELEV.:
	GROUND SURFACE		0.00 ft	7.32 ft
GROUT	GROUT (to surface)		11.42 ft	-2.88 ft
SAND	SAND TOP OF SCREEN		15.21 ft	-6.67 ft
	BOTTOM OF WELL		30.21 ft	-21.67 ft

REMARKS:

Grout mix was approximately 80% Portland cement and 20% high TDS clay

Sand and grout were placed via tremie method

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WELL ABANDONMENT DATA

PROJECT: Plant McManus Former Ash Pond 1 (AP-1) Well Abandonment		**WELL NO.:** RW-9	
SITE: Plant McManus Former Ash Pond 1		**COORDINATES:**	N 444641.26 E 851181.25
FORM PREPARED BY: Natalie Piparo **ABANDONMENT BY:** UES		**DATE GROUTED:**	10/16/2025
METHOD OF FILLING: Fine Sand, Bentonite-Portland Mix via Tremie Pipe		**VOLUME USED:**	20 gallons grout mix, 700 gallons of sand
TOP OF CASING ELEVATION:	10.05 ft	**WELL OUTER DIAMETER:**	6 in
DEPTH SOUNDED BELOW TOC PRIOR TO FILLING/GROUTING:	37.26 ft	**DEPTH TO WATER BELOW TOC PRIOR TO GROUTING:**	6.91 ft

			DEPTH:	ELEV.:
	GROUND SURFACE		0.00 ft	7.55 ft
GROUT	GROUT (to surface)		10 ft	-2.9 ft
SAND	SAND TOP OF SCREEN		19.76 ft	-12.66 ft
	BOTTOM OF WELL		34.76 ft	-27.66 ft

REMARKS:

Grout mix was approximately 80% Portland cement and 20% high TDS clay

Sand and grout were placed via tremie method

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WELL ABANDONMENT DATA

PROJECT: Plant McManus Former Ash Pond 1 (AP-1) Well Abandonment		**WELL NO.:** RW-10	
SITE: Plant McManus Former Ash Pond 1		**COORDINATES:**	N 444706.81 E 851295.35
FORM PREPARED BY: Natalie Piparo **ABANDONMENT BY:** UES		**DATE GROUTED:**	10/15/2025
METHOD OF FILLING: Fine Sand, Bentonite-Portland Mix via Tremie Pipe		**VOLUME USED:**	10 gallons grout mix, 828 gallons of sand
TOP OF CASING ELEVATION:	10.36 ft	**WELL OUTER DIAMETER:**	6 in
DEPTH SOUNDED BELOW TOC PRIOR TO FILLING/GROUTING:	37.8 ft	**DEPTH TO WATER BELOW TOC PRIOR TO GROUTING:**	6.76 ft

			DEPTH:	ELEV.:
	GROUND SURFACE		0.00 ft	7.64 ft
GROUT	GROUT (to surface)		5.78 ft	1.86 ft
SAND	SAND TOP OF SCREEN		20.08 ft	-12.44 ft
	BOTTOM OF WELL		35.08 ft	-27.44 ft

REMARKS:

Grout mix was approximately 80% Portland cement and 20% high TDS clay

Sand and grout were placed via tremie method

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 3/10/2026

Permit Number: 063-030D (CCR)

Field Conditions: 82/64, 0% Rain

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)
MCM-01	YES	YES	NO	YES
MCM-02	YES	YES	NO	YES
MCM-04	YES	YES	NO	YES
MCM-05	YES	YES	NO	YES
MCM-06	YES	YES	NO	YES
MCM-07	YES	YES	NO	YES
MCM-11	YES	YES	NO	YES
MCM-12	YES	YES	NO	YES
MCM-14	YES	YES	NO	YES
MCM-15	YES	YES	NO	YES
MCM-16	YES	YES	NO	YES
MCM-17	YES	YES	NO	YES
MCM-18	YES	YES	NO	YES
MCM-19	YES	YES	NO	YES
MCM-20	YES	YES	NO	YES
DPZ-02	YES	YES	NO	YES
MW-05	YES	YES	NO	YES
MW-06R	YES	YES	NO	YES
MW-07	YES	YES	NO	YES
MW-11	YES	YES	NO	YES
MCM-08	YES	YES	NO	YES
MCM-10	YES	YES	NO	YES
PZ-09	YES	YES	NO	YES
PZ-11	YES	YES	NO	YES
DR-01	YES	YES	NO	YES
DR-02	YES	YES	NO	YES
PT-01	YES	YES	NO	YES
PT-02	YES	YES	NO	YES
PT-03	YES	YES	NO	YES
PT-04D	YES	YES	NO	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 3/10/2026

Permit Number: 063-030D (CCR)

Field Conditions: 82/64, 0% Rain

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
MCM-01	YES	YES	YES	YES	YES
MCM-02	YES	YES	YES	YES	YES
MCM-04	YES	YES	YES	YES	YES
MCM-05	YES	YES	YES	YES	YES
MCM-06	YES	YES	YES	YES	YES
MCM-07	YES	YES	YES	YES	YES
MCM-11	YES	YES	YES	YES	YES
MCM-12	YES	YES	YES	YES	YES
MCM-14	YES	YES	YES	YES	YES
MCM-15	YES	YES	YES	YES	YES
MCM-16	YES	YES	YES	YES	YES
MCM-17	YES	YES	YES	YES	YES
MCM-18	YES	YES	YES	YES	YES
MCM-19	YES	YES	YES	YES	YES
MCM-20	YES	YES	YES	YES	YES
DPZ-02	YES	YES	YES	YES	YES
MW-05	YES	YES	NO	YES	YES
MW-06R	YES	YES	YES	YES	YES
MW-07	YES	YES	YES	YES	YES
MW-11	YES	YES	YES	YES	YES
MCM-08	YES	YES	YES	YES	YES
MCM-10	YES	YES	YES	YES	YES
PZ-09	YES	YES	YES	YES	YES
PZ-11	YES	YES	YES	YES	YES
DR-01	YES	YES	YES	YES	YES
DR-02	YES	YES	YES	YES	YES
PT-01	YES	YES	YES	YES	YES
PT-02	YES	YES	YES	YES	YES
PT-03	YES	YES	YES	YES	YES
PT-04D	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 3/10/2026

Permit Number: 063-030D (CCR)

Field Conditions: 82/64, 0% Rain

	Surface Pad			Internal Casing		
Well ID:	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
MCM-01	YES	YES	YES	YES	YES	YES
MCM-02	YES	YES	YES	YES	YES	YES
MCM-04	YES	YES	YES	YES	YES	YES
MCM-05	YES	YES	YES	YES	YES	YES
MCM-06	YES	YES	YES	YES	YES	YES
MCM-07	YES	YES	YES	YES	YES	YES
MCM-11	YES	YES	YES	YES	YES	YES
MCM-12	YES	YES	YES	YES	YES	YES
MCM-14	YES	YES	YES	YES	YES	YES
MCM-15	YES	YES	YES	YES	YES	YES
MCM-16	YES	YES	YES	YES	YES	YES
MCM-17	YES	YES	YES	YES	YES	YES
MCM-18	YES	YES	YES	YES	YES	YES
MCM-19	YES	YES	YES	YES	YES	YES
MCM-20	YES	YES	YES	YES	YES	YES
DPZ-02	YES	YES	YES	YES	YES	YES
MW-05	YES	YES	YES	YES	YES	YES
MW-06R	YES	YES	YES	YES	YES	YES
MW-07	YES	YES	YES	YES	YES	YES
MW-11	YES	YES	YES	YES	YES	YES
MCM-08	YES	YES	YES	YES	YES	YES
MCM-10	YES	YES	YES	YES	YES	YES
PZ-09	YES	YES	YES	YES	YES	YES
PZ-11	YES	YES	YES	YES	YES	YES
DR-01	YES	YES	YES	YES	YES	YES
DR-02	YES	YES	YES	YES	YES	YES
PT-01	YES	YES	YES	YES	YES	YES
PT-02	YES	YES	YES	YES	YES	YES
PT-03	YES	YES	YES	YES	YES	YES
PT-04D	YES	YES	YES	YES	YES	YES

Well Inspection

Site Name: Plant McManus Former AP-1

Date: 3/10/2026

Permit Number: 063-030D (CCR)

Field Conditions: 82/64, 0% Rain

Well ID:	Corrective actions as needed, by date:
MCM-01	
MCM-02	
MCM-04	
MCM-05	
MCM-06	
MCM-07	
MCM-11	
MCM-12	
MCM-14	
MCM-15	
MCM-16	
MCM-17	
MCM-18	
MCM-19	Ballard needs replacement
MCM-20	
DPZ-02	
MW-05	Weep hole will be drilled during next sampling event
MW-06R	
MW-07	
MW-11	
MCM-08	
MCM-10	
PZ-09	
PZ-11	
DR-01	
DR-02	
PT-01	
PT-02	
PT-03	
PT-04D	

APPENDIX B

PILOT STUDY SUMMARY REPORT

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ARCADIS

Georgia Power

Pilot Study Summary Report

Pilot Test No. UPT000071

Plant McManus Former Ash Pond 1 (AP-1)

August 29, 2025

Pilot Study Summary Report

Plant McManus Former Ash Pond 1 (AP-1)

August 29, 2025

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Principal Environmental Engineer

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Contents

Acronyms and Abbreviations iv

Certification Statement 1

1 Background and Purpose 1

2 Pre-Injection Activities 2

2.1 Well Installation 2

2.2 Baseline Sampling 2

2.3 Reagent Selection and Removal Mechanism 3

3 Injection Activities 3

4 Post-Injection Performance Monitoring Activities 5

5 Pilot Study Results 5

5.1 Sustainable Injection Pressure and Flowrate 6

5.2 Radius of Influence 6

5.3 Post-Injection Monitoring: Injectate Efficacy and Dosing 7

5.3.1 Long-term Treatment Performance 8

5.3.2 Temporary Corrective Action Performance Monitoring Piezometers 9

5.3.3 Appendix IV Parameter Results 9

6 Conclusion 9

7 References 10

Figures

Figure 1. Location Map

Figure 2. Pilot Study Temporary Injection Well and Corrective Action Performance Monitoring Piezometer Locations

Figure 3. Cumulative Volume and Flowrate at INW-01

Figure 4. Dose-Response Parameter Results: DR-03

Figure 5. Concentration Time Series: DR-03

Figure 6. Concentration Time Series: PT-03

Tables

Table 1. Pilot Study Well Network Construction Details

Table 2. Summary of Baseline Groundwater Analytical Data

Table 3. Summary of Daily Injection Activities

Table 4. Summary of Injection Dose-Response Monitoring Groundwater Analytical Data

Table 5. Pilot Study Sample Schedule – Post-Injection Monitoring

Table 6. Summary of Pilot Injection Performance Groundwater Analytical Data

Appendices

Appendix A. 2024 Semiannual Pilot Study Progress Summary Report

Appendix B. Well Installation Reports

Appendix C. Injection Event Analytical Laboratory Reports

Appendix D. Field Notes and Calibration Reports

Appendix E. Post-Injection Analytical Laboratory Reports

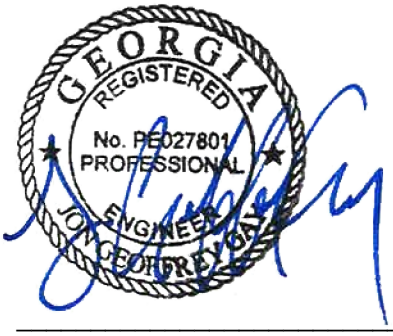
Appendix F. MicroVision SEM/BSE/EDS Report

Acronyms and Abbreviations

ACM	Assessment of Corrective Measures
AP-1	Plant McManus Former Ash Pond 1
Arcadis	Arcadis U.S., Inc.
BSE	backscattered electron imaging
CCR	coal combustion residual
CFR	Code of Federal Regulations
CCR Rule	Coal Combustion Residual Rule
DO	dissolved oxygen
EDS	energy dispersive x-ray spectroscopy
Fe	iron
ferrous chloride	ferrous chloride tetrahydrate
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
gpm	gallons per minute
GWMP	groundwater monitoring plan
GWPS	Groundwater Protection Standard
mg/L	milligram per liter
mV	millivolt
NELAP	National Environmental Laboratory Accreditation Program
ORP	oxidation-reduction potential
psi	pound per square inch
Report	Pilot Study Summary Report
ROI	radius of influence
SCS	Southern Company Services
SEM	scanning electron microscopy
SSL	statistically significant level
UIC	Underground Injection Control
USEPA	United States Environmental Protection Agency
Work Plan	MCM-06 Pilot Study Work Plan
45-Day Report	Pilot Study Post-Injection Event Report
‰	per mil

Certification Statement

This Pilot Study Summary Report, Georgia Power Company – Plant McManus Former Ash Pond 1 (AP-1) has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual 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 Arcadis U.S., Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.



Geoff Gay, P.E. (PE 27801)
Technical Expert (Eng.), Vice President
August 29, 2025

1 Background and Purpose

Arcadis U.S., Inc. (Arcadis) developed this Pilot Study Summary Report (Report) as part of the implementation of Assessment of Corrective Measures (ACM) process at Georgia Power Company's (Georgia Power) Plant McManus Former Ash Pond 1 (AP-1; **Figure 1**). The Draft Remedy Selection Report (Arcadis 2024a) proposed in-situ geochemical injections as the corrective measure to address concentrations of arsenic reported at statistically significant levels (SSLs) above the Groundwater Protection Standard (GWPS) of 0.032 milligram per liter (mg/L) in detection monitoring well MCM-06 (**Figure 2**). The nature and extent of arsenic is documented in the 2024 Semiannual Groundwater Monitoring and Corrective Action Report (EnSafe 2025). As documented in the Draft Remedy Selection Report, in-situ geochemical injections meet the required remedy criteria set forth in the United States Environmental Protection Agency's (USEPA's) Coal Combustion Residuals (CCR) Rule, 40 Code of Federal Regulations (CFR) Part 257 effective October 19, 2015 (CCR Rule) including subsequent revisions and Georgia Environmental Protection Division's (GA EPD's) Rule for Solid Waste Management Rule 391-3-4-.10 for CCR.

In a letter dated February 16, 2024, the GA EPD Solid Waste Management Program reviewed the Draft Remedy Selection Report and provided written concurrence to move forward with pilot testing to inform corrective action design. Arcadis prepared the MCM-06 Pilot Study Work Plan (Work Plan; Arcadis 2024b) detailing the planned injections and subsequent performance monitoring. Both the GA EPD Underground Injection Control (UIC) program and Solid Waste Management Program approved the Work Plan in a letter dated June 26, 2024, authorizing limited pilot test injections with a 90-day duration to inform corrective action design. This Report summarizes the results of the pilot injection study.

Design of an in-situ geochemical injection corrective measure includes multiple assessment and design components such as pilot studies to evaluate injection delivery and the performance of injectates before implementing a full-scale remedy to address arsenic SSLs on site in the vicinity of MCM-06. Specifically, the objectives of this pilot study were:

- Determine the site-specific hydrogeologic and injection parameters necessary to design and implement in-situ treatment (i.e., injection flowrates, injection pressures, radius of influence [ROI], required injection volumes, concentrations, and injection frequency).
- Determine the efficacy of in-situ injections with ferrous chloride tetrahydrate ($FeCl_2 \cdot 4H_2O$) for addressing arsenic concentrations in groundwater.
- Verify that there are no sustained increases in Appendix IV parameters above GWPS due to injections.

This Report provides a summary of pre-injection activities and the in-situ injection pilot study completed at the Site between June 1 and August 20, 2024 and post-injection data monitoring conducted between August 27, 2024 and April 16, 2025.

The following previous reports have been submitted to document pilot study progress:

- 2024 Semiannual Pilot Study Progress Report (Appendix of Ensafe 2025); and
- Pilot Study Post-Injection Event Report (45-Day Report; Arcadis 2024c).

Both are provided within **Appendix A** of this Report.

Georgia Power anticipates receiving written authorization from GA EPD to hold the public meeting with the selected remedy of in-situ injection. After the public meeting, Georgia Power will revise the Draft Remedy Selection Report, incorporating results of the pilot study and public meeting comments.

2 Pre-Injection Activities

Pre-injection activities, completed between June 1 and August 13, 2024, before the initiation of the in-situ pilot study, included well installation, baseline groundwater sampling, and reagent selection.

2.1 Well Installation

A temporary performance monitoring network was installed proximal to detection well MCM-06 in an area where detections of arsenic above the GWPS were expected based on high-resolution site characterization activities. The purpose of this performance monitoring network was to evaluate reagent distribution and pilot study performance for an interim period to inform full-scale corrective action design. This monitoring network consists of temporary dose-response and performance monitoring piezometers and existing detection well MCM-06 shown on **Figure 2.**

Temporary corrective action dose-response piezometers (dose-response piezometers) were installed within the design ROI for the pilot study to be sampled during and after the injection event to track arrival of injection solution. Temporary corrective action performance monitoring piezometers (performance monitoring piezometers) were installed outside of the design ROI and sampled following injection to evaluate the groundwater quality and groundwater flow direction following the completion of injection activities.

The temporary piezometers and temporary injection well INW-01, installed between May 2022 and June 2024, are screened at depths and lithology generally similar to those of detection well MCM-06 and constructed in general accordance with the Permit No. 063-030D(CCR) groundwater monitoring plan (GWMP; Resolute 2021). Cascade Environmental installed the piezometers under contract with Southern Company Services (SCS) Civil Field Services. Well construction details are provided in **Table 1** and completion reports are provided in **Appendix B**.

2.2 Baseline Sampling

Groundwater samples were collected from temporary injection well (INW-01), dose-response piezometers (DR-02, PT-03, and DR-03), performance monitoring piezometers (PT-01, PT-02, and DR-01), and detection monitoring well MCM-06 on June 18 and 19 and July 23, 2024 to establish pre-injection baseline conditions. The results for the baseline sampling events are presented in **Table 2**. The baseline analytical laboratory results and field sampling and equipment calibration forms are provided in the 45-Day Report (Arcadis 2024c; **Appendix A**). These pre-injection baseline groundwater data were evaluated along with historical groundwater sample results provided in Appendix B of the Work Plan (Arcadis 2024b).

Baseline sampling data from June and July 2024 were consistent with historical results and indicated highly reducing conditions based on iron, sulfate, and sulfide data as well as arsenic concentrations greater than the GWPS (**Table 2**). This understanding is supported by:

- Highly negative oxidation reduction potential (ORP) values (range: -58.2 to -353.3 millivolts [mV], average: -250.9 mV), and low levels of dissolved oxygen (DO; less than 1 mg/L) in samples collected from wells located along the dike.
- Bicarbonate alkalinity reflective of the production of bicarbonate as part of microbial reduction processes.
- Elevated sulfide (>20 mg/L) concentrations at sample locations with elevated arsenic content. For example, the two wells with the highest sulfide concentrations (DR-02 and MCM-06) also exhibited the highest total arsenic concentrations. At DR-02, sulfide concentrations in June and July 2024 were 26 and 33 mg/L, and corresponding total arsenic concentrations were 0.0482 to 0.0726 mg/L, respectively. At MCM-06, sulfide concentrations in June and July 2024 were 31 and 42 mg/L, and corresponding total arsenic concentrations were 0.0776 and 0.0762 mg/L, respectively.
- Detections of reduced-phase arsenic species (predominantly thioarsenic species) compared to oxidized forms (arsenate), particularly in DR-02, PT-03, and MCM-06. The reduced-phase arsenic species concentrations were 66.2 µg/L, estimated; 81.0 µg/L, estimated; and 121 µg/L, estimated, respectively, up to two orders of magnitude greater than arsenate concentrations, which were less than the laboratory method detection limit (2.0 µg/L, estimated) at all three locations.

2.3 Reagent Selection and Removal Mechanism

As discussed in the Geochemical Conceptual Site Model Report (Appendix A to the Draft Remedy Selection Report [Arcadis 2024a]), arsenic is present as thioarsenic species in groundwater at detection monitoring well MCM-06. Thioarsenic species formation is linked to iron and sulfur cycling, and elevated concentrations of sulfur compounds (e.g., sulfide and sulfate) present in the groundwater near MCM-06 that are likely promoting thioarsenic species formation through biologically mediated sulfate reduction and other pathways (Herath et al. 2018). As such, an approach to treatment of thioarsenic species in groundwater is to reduce the concentration of dissolved sulfide available in groundwater and thereby disrupt the arsenic-sulfide complex and reduce the solubility of arsenic in groundwater.

The selected reagent, ferrous chloride, readily precipitates with sulfide to form insoluble ferrous sulfide minerals such as mackinawite (FeS) and pyrite (FeS_2). Arsenic liberated from the thioarsenic complex can co-precipitate with or sorb onto the ferrous sulfide minerals or more readily sorb onto existing aquifer minerals. Removal of arsenic from groundwater when ferrous iron is added was demonstrated in bench-scale testing (Appendix C to the Work Plan [Arcadis 2024b]), which showed a reduction in arsenic concentrations in groundwater and a conversion of remaining arsenic into less soluble arsenate and arsenite species. An iron dose of 0.2 percent by weight iron was selected based on the results of bench-scale testing.

3 Injection Activities

Cascade Drilling conducted pilot study injection activities between August 13 and 20, 2024, with technical supervision by Arcadis (45-Day Report [Arcadis 2024c; **Appendix A]**). Injections occurred over a 7-day period between August 13 and 19 with a day of demobilization on August 20, 2024. The work was completed in accordance with the GA EPD-approved Pilot Test Notification Form and the Work Plan (Arcadis 2024b).

The injection solution consisted of a mixture of ferrous chloride, tracer (deuterated water), and potable water from an on-site source designated in the Work Plan (Arcadis 2024b). ProChem, Inc. provided the selected solid ferrous

chloride reagent as ferrous chloride tetrahydrate, an iron chloride with four water molecules included in its crystal structure. Injectate batches consisted of approximately 0.2 percent by weight iron (Fe) and 0.037 percent deuterium tracer administered at the MCM-06 pilot study area.

A total of 4,329 gallons of injection solution was introduced at INW-01 over a 7-day period. An initial leak test was conducted with 50 gallons of potable water on August 13, 2024. Additionally, at the end of each day from August 13 to 19, a 50-gallon batch of potable water was added to the injection well to flush the reagent from the well. The location of temporary injection well INW-01 is shown on **Figure 2**. Injection pressures, flowrates, water levels, and groundwater quality parameters[1] were measured throughout injection and are provided in **Appendix A**. At INW-01, the wellhead pressure remained below 1 pound per square inch (psi) for the duration of the injection, which was well below the limit of 5 psi presented in the Pilot Test Notification Form. Additionally, the daily maximum injection volume remained below the value included in the Pilot Test Notification Form (3,000 gallons per day). Daily maximum wellhead pressure and injected solution volumes are provided in **Table 3** and summarized in **Exhibit 1;** cumulative injected solution volumes are also shown on **Figure 3**. The maximum daily injection volume (748 gallons) occurred on August 16, 2024, and the average daily injection volume was 618 gallons (**Exhibit 1**). A summary of injection activities is included in **Exhibit 1** below.

Exhibit 1. Summary of Injection Activities

Injection	INW-01
Maximum Well Head Pressure (psi)	0.8
Average Flow Rate (gpm)	2.22
Average Daily Injection Volume (gallons)	618
Total Injection Volume (gallons)	4,329
Total Injection Volume Potable Water (gallons)[1]	400

1. Total injection volume of potable water includes 50 gallons from the initial leak test on August 13, 2024 plus a total of 350 gallons used to wash the injection well after daily injection activities (50 gallons per day from August 13 to 19, 2024).

The injection flowrate over the 7-day period decreased from an initial maximum flowrate of 5.5 gallons per minute (gpm) to a final flowrate of 1.1 gpm (**Figure 3**). Batch preparation was adjusted during the first day of injections by reducing each batch size and limiting oxygen contact in order to reduce the potential for injection solution oxidation and formation of precipitates, which can clog the well screen and filter pack. Despite the observed decrease in flowrate, a sufficient volume was injected to observe arrival at dose-response piezometers and for the determination of additional design parameters, as discussed in Section 5.

In addition to flow monitoring, sampling for ferrous iron, total iron, deuterium and field parameter monitoring was conducted in accordance with the Work Plan at dose-response piezometers DR-02, DR-03, and PT-03 to confirm distribution of injected reagent solution and develop breakthrough curves of injection solution to evaluate mobile porosity for full-scale design. These results, as well as initial and final arsenic concentrations, are summarized in **Table 4.** Associated analytical reports are included in **Appendix C**. Performance monitoring piezometer samples were collected at a reduced frequency. These results are also provided in **Table 4** and **Appendix C**. GEL Laboratories analyzed groundwater samples for all analyses except for deuterium, arsenic speciation, and sulfide,

[1] Injection pressures and flowrates were only measured at INW-01 during the active injection period, but water levels and groundwater quality parameters were measured in all monitoring wells shown on **Figure 2**.

which were evaluated by Isotope Tracer Technologies, Brook Applied Laboratories and Eurofins, respectively. GEL Laboratories and Eurofins are accredited by the National Environmental Laboratory Accreditation Program (NELAP) and maintain NELAP certifications for the constituents and geochemical parameters analyzed for this project. Ferrous iron was analyzed in the field with a Hach® test kit.

A detailed summary of the injection activities is provided in the 45-Day Report (Arcadis 2024c; **Appendix A**).

4 Post-Injection Performance Monitoring Activities

The purpose of post-injection performance monitoring is to evaluate the efficacy of the injections to treat arsenic in groundwater to less than the GWPS and assess the longevity of the injection performance and potential downgradient effects over an extended period.

Arsenic concentrations at performance monitoring piezometers were monitored to evaluate arsenic treatment outside of the influence of injections. Concentrations of Appendix IV parameters at dose-response and performance monitoring piezometers were also tracked.

Post-injection performance monitoring was initiated on August 27, 2024, with groundwater samples collected from INW-01 and all dose-response and performance monitoring piezometers in accordance with the Work Plan. The post-injection performance monitoring frequency was weekly for the first month after injections, bimonthly for the second and third months after injections, and finally, quarterly for the duration of the pilot study. The wells sampled in the post-injection performance monitoring program included the temporary injection well (INW-01), dose-response piezometers (DR-02, PT-03, DR-03), performance monitoring piezometers (PT-01, PT-02, DR-01), and detection monitoring well MCM-06. Groundwater samples collected from these locations were generally evaluated for the complete suite of Appendix III and Appendix IV constituents (except radium), arsenic speciation, geochemical parameters (including deuterium[2]), and field parameters. The sampling schedule and full analytical list are provided in **Table 5**.[3]

Groundwater analytical results from the post-injection monitoring events through the end of the post-injection monitoring period (Week 34; April 15 and 16, 2025) are summarized in **Table 6**. The field and laboratory reports associated with Week 23 and Week 34 sampling events are provided in **Appendices D and E**, respectively. Field and laboratory reports from earlier sampling events are provided in previously submitted reports (**Appendix A**). Laboratory reports associated with the pilot study investigation are included in **Appendix E** and were generated by the same laboratories used during the injection event as specified in Section 3.

5 Pilot Study Results

As stated in Section 1, the first objective of the pilot study was to determine site-specific hydrogeologic and injection parameters necessary to design and implement in-situ treatment including injection flowrates, injection pressures, ROI, required injection volumes, concentrations, and injection frequency. Section 5.1 discusses injection parameters such as injection flowrates, pressures, and volumes, and Section 5.2 discusses the ROI observed during the pilot study.

[2] Deuterium results were analyzed by Isotope Tracer Technologies, Inc. (Waterloo, Ontario) rather than the UC Davis Isotope Laboratory, as indicated in the Work Plan (Arcadis 2024b).
[3] Changes to the sampling program compared to the sample schedule provided in the Work Plan (Arcadis 2024b) are summarized in the 2024 Semiannual Pilot Study Progress Report (Arcadis 2025).

The second objective of the pilot study was to determine the efficacy of in-situ injections with ferrous chloride for addressing arsenic concentrations in groundwater, and the third objective was to verify that there were no sustained increases in Appendix IV parameters above their respective GWPS due to injections. Section 5.3 discusses the concentrations observed during the pilot event and in the post-injection monitoring phase.

5.1 Sustainable Injection Pressure and Flowrate

The maximum flowrate and peak groundwater mounding observed at the MCM-06 pilot study area were 5.5 gpm and between 0.5 and 1 ft, respectively (**Appendix A**). Injection flowrates decreased over time, from a maximum of 5.5 gpm to 1.1 gpm by the end of the study, under gravity-feed conditions (**Figure 3**). The decrease in flowrate is likely due to the formation of iron oxide precipitates observed during reagent mixing, which can clog the well screen and filter pack. It is expected that a flowrate greater than 1.1 gpm may be achievable during the future in-situ injection with reagent preparation modifications and the application of light pressure (less than 5 psi) and mixing methods to minimize oxidation.

Increases in groundwater elevation due to the injection (groundwater mounding) were minimal, generally less than 1 foot during injection, and within the variation of groundwater elevations due to tidal influences at the site (**Appendix A**).

5.2 Radius of Influence

As discussed above, sampling and monitoring were conducted during injections at dose-response piezometers DR-02, DR-03, and PT-03 to achieve the following objectives:

- Confirm distribution of injected reagent solution.
- Develop breakthrough curves of injection solution to calculate parameters for future full-scale design.

The arrival of the ferrous chloride injection solution was evaluated with field data (ferrous iron), analytical data (deuterium tracer and total iron), and visual observations collected and recorded during dose-response monitoring (**Table 4**). **Figure 4** shows the arrival of total iron, deuterium, and ferrous iron at the dose-response piezometer DR-03 based on their respective percent relative concentrations to the injection solution. Results indicated successful ROI between 4 and 6 feet, as detailed below.

The arrival of an injection solution can be evaluated by comparing the concentration of a tracer or component of an injection solution against their respective concentrations in the bulk injection solution. This relationship is expressed as percent relative concentration and is calculated using the following generic formula:

$$A = \frac{[C]_{sample} - [C]_{baseline}}{[C]_{injected} - [C]_{baseline}}$$

Where $[C]_{sample}$ is the concentration at a given sampling point, $[C]_{baseline}$ is the baseline concentration, and $[C]_{injected}$ is the concentration of the injection solution. This calculation normalizes observed values to the range between the baseline and the injected tracer, allowing relative enrichment to be compared across samples. The higher the percent relative concentration, the greater the water collected at the wells reflects the injection solution. Arrival at a dose-response piezometer is indicated by an increase in relative concentration followed by a levelling off at a maximum relative concentration.

Dose-response piezometer DR-03, which is located 4 feet from the temporary injection well, saw injection solution arrival within the first 500 gallons injected, with a relative deuterium concentration of 12.42 percent (386 ± 0.19 per mil [‰]), and relative total iron concentration of 4 percent (76.1 mg/L) of the injection solution (**Figure 4**). By the completion of the injection program, the maximum relative deuterium concentration was 55.15 percent (1,686 ± 3 ‰), and the maximum relative total iron concentration was 31.95 percent (561 mg/L) at this location. These relative concentrations are less than 100 percent, which would indicate that the water at the dose-response piezometer is a mixture of injection solution and formation water.

Injection solution arrival at PT-03, located 6 feet from the temporary injection well, occurred later during the injection program (at approximately 2,000 gallons injected), and at lower final maximum relative concentrations (18.08 and 4.38 percent for deuterium and iron, respectively; **Table 4**).This would be anticipated due to the greater distance from the temporary injection well and higher level of dilution of the injection solution.

Based on the data collected during dose-response monitoring, DR-02, located 10 feet from the temporary injection well, was outside the injection ROI. There was little to no change in the relative concentrations of deuterium or iron throughout dose-response monitoring (**Table 4**).

The timing for the arrival of injection solution was further confirmed by visual observations of a black precipitate, which was identified in samples collected during the injection program in DR-03 and PT-03. Precipitate formation was observed one day after the start of injections in DR-03 and approximately three days after the start of injections in PT-03. A photo of the precipitate in conjunction with the arrival of other dose response constituents is provided in **Figure 4**. This black precipitate was later determined to be iron sulfide minerals based on electron microscopy and microanalysis techniques (scanning electron microscopy [SEM], energy dispersive X-ray spectroscopy [EDS], and backscattered electron imaging [BSE]) conducted by MicroVision Laboratories, Inc. [**Appendix F**]).

5.3 Post-Injection Monitoring: Injectate Efficacy and Dosing

The purpose of post-injection performance monitoring is to evaluate the efficacy of the injections to treat arsenic in groundwater to less than the GWPS and assess the longevity of the performance of the injection and potential downgradient effects over an extended period. As discussed in Section 2.3, ferrous chloride provides treatment by reducing the concentration of dissolved sulfide available in groundwater and through the generation of iron sulfide minerals, which disrupts the arsenic-sulfide complexes and provides sorption points for arsenic. As such, the primary indicators of effectiveness and longevity in this pilot study are:

- Decreasing arsenic concentrations to below the GWPS at dose-response piezometers;
- Reduction in sulfide concentrations at dose-response piezometers; and
- Measurable concentrations of iron in solution at dose-response piezometers over time (to verify field measurements).

Injection of a 0.2 percent by weight iron solution successfully treated arsenic concentrations in groundwater to below the GWPS at wells within the injection ROI (DR-03, and PT-03; **Figures 5 and 6**). DR-03, located 4 feet from the temporary injection well, exhibited the greatest arrival of injection solution based on deuterium and iron results. Iron concentrations increased from 0.252 mg/L on July 23, 2024 to a maximum of 1,210 mg/L on August 27, 2024, an increase in concentration of almost four orders of magnitude a week following the injection. With the

arrival of the injection solution, the total arsenic concentration at DR-03 decreased from a maximum of 0.0376 mg/L on July 23, 2024 to less than the laboratory method detection limit (0.01 mg/L) on August 27, 2024, resulting in at least a 73 percent decrease immediately after injection[4] (**Figure 5; Tables 2 and 6**). Similarly, following the injections, sulfide concentrations decreased from 31 mg/L on July 23, 2024 to 11 mg/L on August 27, 2024, a 65 percent decrease, demonstrating the intended removal mechanism was occurring.

PT-03 received a lower dose of the injection solution but still treated arsenic to less than the GWPS. The total iron concentration in groundwater at PT-03 was 128 mg/L on August 27, 2024 a week following the injection. The total arsenic concentration at PT-03 decreased from a maximum baseline concentration of 0.060 mg/L on June 18, 2024 to 0.023 mg/L, estimated on August 27, 2024, a 62 percent decrease immediately after injection (**Figure 6; Tables 2 and 6**). In that same period, sulfide concentrations halved from a baseline result of 18 mg/L to 9.9 mg/L.

DR-02 was outside of the injection ROI, and performance monitoring at this location suggests that the injection solution did not reach this location, as demonstrated by low deuterium relative concentration, lack of iron arrival, and no observed arsenic treatment (**Tables 4** and **6**).

5.3.1 Long-term Treatment Performance

Long-term monitoring has shown that the iron added by the injection of a 0.2 percent by weight iron solution has been able to maintain arsenic treatment for up to 9 months following the pilot study injection at locations within the core of the injection ROI (represented by DR-03). However, increases in arsenic concentrations at the outer perimeter of the injection ROI (represented by PT-03) during the final post-injection sampling event (34-week) suggest that maintenance injections or smaller design ROI may be required during full-scale implementation. These results are discussed further below.

During the post-injection monitoring period, migration of the injected solution was tracked by measuring deuterium tracer concentrations. As shown on **Figures 5** and **6**, deuterium concentrations decreased during the post-injection monitoring period from maximum relative deuterium values of 87 percent at DR-03 and 18 percent at PT-03 to near baseline concentrations. The return to baseline concentrations occurred within approximately 1 month at PT-03 and within 3 months at DR-03.

Despite the migration of the injection solution outside of the pilot study area, the arsenic concentration in DR-03 has remained less than the GWPS through the 34-week (9 month) sampling event (0.00523 mg/L, estimated) (**Figure 5**). Similarly, total iron concentrations remain elevated at DR-03 in the most recent sampling event (11.5 mg/L) compared to baseline (0.252 mg/L). Sulfide concentrations at DR-03 remain below the average background level (23 mg/L), with the most recent measurement on April 15, 2025, recorded at 5.8 mg/L.

While continued treatment was observed in groundwater sampled from DR-03, arsenic concentrations increased in groundwater at PT-03 to above the GWPS during the week 34 (9-month) sampling event (0.045 mg/L). Iron and sulfide concentrations during that sampling event had also returned close to baseline (0.0561 mg/L, estimated and 21 mg/L, respectively).

Continued suppression of arsenic and sulfide concentrations in groundwater at DR-03 suggests that the iron added as part of the pilot study has promoted iron sulfide precipitation and shifted the iron-sulfur-arsenic cycling to favor the attenuation of arsenic in groundwater, as discussed in Section 2.3. The selected reagent (ferrous chloride) readily precipitated with sulfide during the injection to form insoluble ferrous sulfide minerals, shown on **Figure 4** and confirmed with microscopy as discussed in Section 5.2. Arsenic released from the thioarsenic

[4] The reporting limit of 0.01 mg/L was used in the calculation.

complex can co-precipitate with or sorb onto these ferrous sulfide minerals or more readily sorb onto existing aquifer minerals. This trend is consistent with the sustained reduction in arsenic concentrations discussed above, further supporting that effective in-situ geochemical transformation has occurred, leading to the long-term immobilization of arsenic.

The return of arsenic in groundwater at PT-03 to concentrations greater than the GWPS indicates that the iron distribution at the outer edge of the ROI was not sufficient to sustain the shift in iron-sulfur-arsenic cycling to favor the attenuation of arsenic. Based on these results, additional maintenance injections or smaller design ROI may be required to provide treatment.

5.3.2 Temporary Corrective Action Performance Monitoring Piezometers

Additional locations (piezometers PT-01, PT-02, DR-01, and detection well MCM-06) located outside of the target ROI were monitored to evaluate how the movement of treated water outside of the ROI affects arsenic concentrations. These locations showed little to no response during and after the injection event (**Tables 4** and **6**, respectively), supporting the interpretation that they are located cross-gradient to groundwater flow, and that they were located outside of the pilot study ROI.

5.3.3 Appendix IV Parameter Results

In addition to the parameters discussed above, Appendix IV parameters were monitored during the post-injection monitoring period. In the post-injection monitoring period, there were no sustained increases in Appendix IV parameters above their respective GWPS in the temporary injection well, dose-response piezometers, or performance monitoring piezometers (**Table 6**).

6 Conclusion

This pilot study demonstrated that the in-situ geochemical injection of ferrous chloride successfully treated arsenic in groundwater to below the GWPS at the MCM-06 pilot study area. This conclusion is supported by:

- Measured injection pressures and flowrates that would be sustainable at full-scale;
- Effective reagent distribution ROI between 4 and 6 feet;
- Sustained treatment of arsenic to concentrations lower than the GWPS, which have persisted 9 months following the injection at DR-03;
- Continued reductions of sulfide concentrations at locations closer to the injection well , demonstrating the target removal mechanism; and,
- No mobilization of other Appendix IV parameters.

Though post-injection monitoring results show sustained decreases in arsenic and sulfide concentrations at locations closer to the injection well, a return to near-baseline concentrations in arsenic concentrations at the outer perimeter of the injection ROI during the final post-injection sampling event (34-week) suggests that maintenance injections or smaller design ROI may be required during full-scale implementation.

The results of this pilot study support the proposed remedy described in the Draft Remedy Selection Report. Based on these results, the proposed remedy is capable of meeting requirements listed in § 257.97. Data

collected from this pilot study will be used in the design of full-scale in-situ geochemical injection corrective measure and included in the Corrective Action Management Plan. Full-scale in-situ geochemical injection corrective measures are expected to treat the arsenic SSL above the GWPS in detection monitoring well MCM-06.

Georgia Power anticipates receiving written authorization from GA EPD to hold the public meeting with the selected remedy of geochemical approaches (in-situ injection). After the public meeting, Georgia Power will revise the Draft Remedy Selection Report (Arcadis 2024a), incorporating results of the pilot study and public meeting comments.

7 References

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United States. Code of Federal Regulations, Title 40, vol. 24, sec. 257, subpart D.

Figures

TIDAL MARSH

NORTHERN DIKE

MAINLAND

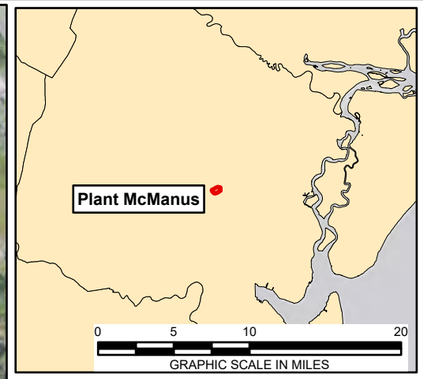
FORMER AP-1

Turtle River

CRISPEN BOULEVARD
(SOUTHERN DIKE)

TIDAL MARSH

CRISPEN ISLAND



LEGEND

APPROXIMATE PROPERTY BOUNDARY

CCR PERMITTED BOUNDARY

NOTES:
1. CCR = COAL COMBUSTION RESIDUALS
2. NAD 83 = NORTH AMERICAN DATUM OF 1983

0 650 1,300

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA EAST FIPS 1001 FEET

Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

LOCATION MAP

ARCADIS

FIGURE
1

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- CCR PERMITTED BOUNDARY
- TEMPORARY INJECTION WELL
- PIEZOMETER
- DETECTION WELL
- ASSESSMENT WELL
- TEMPORARY CORRECTIVE ACTION PERFORMANCE MONITORING PIEZOMETERS
- TEMPORARY CORRECTIVE ACTION DOSE RESPONSE PIEZOMETERS
- GROUNDWATER FLOW DIRECTION

NOTES:

1. LOW TIDE GROUNDWATER CONTOURS BASED ON INTERPRETATION PRESENTED IN SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT. (ENSAFE 2025).
2. A GA EPD-APPROVED PILOT INJECTION STUDY WAS COMPLETED IN AUGUST 2024 AT TEMPORARY INJECTION WELL INW-01.
3. ENSAFE. 2025. 2024 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT - PLANT MCMANUS FORMER ASH POND AP-1. PREPARED FOR GEORGIA POWER COMPANY. FEBRUARY 28.
4. NAVD88 - NORTH AMERICAN VERTICAL DATUM OF 1988
5. NAD83 = NORTH AMERICAN DATUM OF 1983
6. CCR = COAL COMBUSTION RESIDUALS

0 10 20

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA EAST FEET
IMAGERY FROM MCMANUS DRONE SURVEY IMAGERY

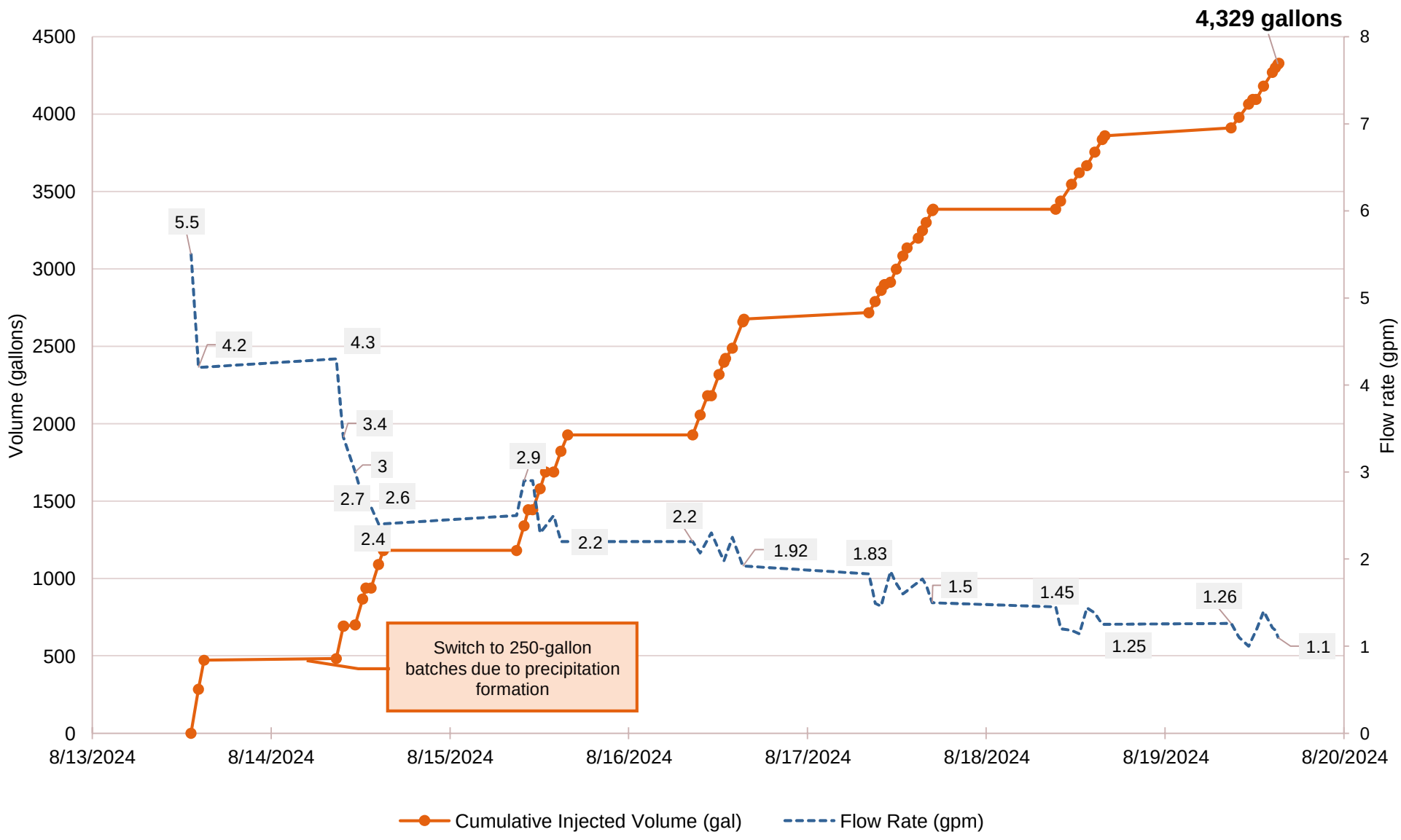
Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

PILOT STUDY TEMPORARY INJECTION WELL AND CORRECTIVE ACTION PERFORMANCE MONITORING PIEZOMETER LOCATIONS

ARCADIS

FIGURE
2



GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

CUMULATIVE VOLUME AND FLOWRATE AT INW-01

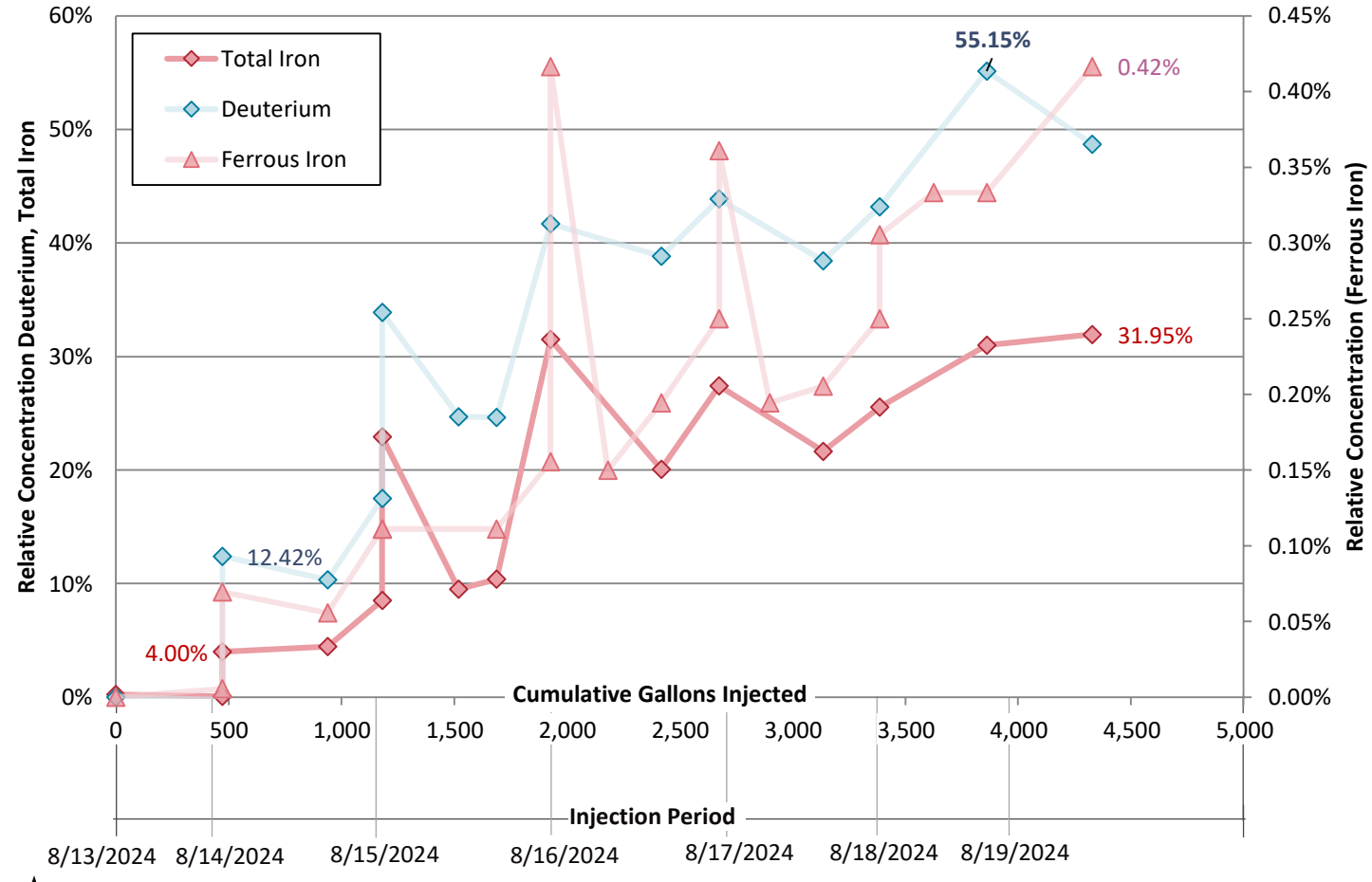
ARCADIS

FIGURE
3

Notes:
1. A total of 4,329 gallons of injection solution were introduced at INW-01 during the injection period (August 13, 2024 to August 20, 2024).
2. Injection rate decreased from an initial maximum flowrate of 5.5 gpm to a final flowrate of 1.1 gpm.

Abbreviations:
gal = gallons
gpm = gallons per minute

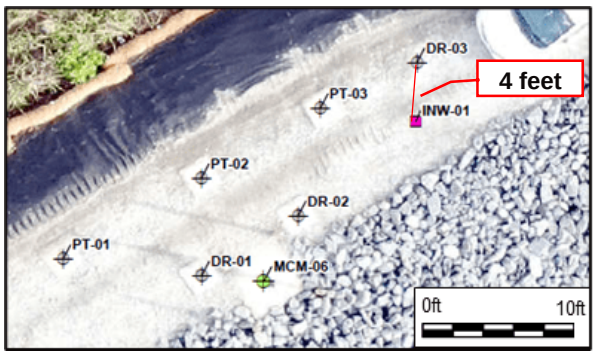
DR-03, 4 feet



Precipitate arrival

Notes:

1. The x-axis displays both the cumulative volume of ferrous chloride injected (in gallons) and the corresponding injection dates. Injection began on August 13, 2024, and precipitate formation at the monitoring location was observed on August 14, 2024.
2. Relative percent concentration provides the percent concentration of the detected analyte (deuterium, iron) compared to the injected solution, normalized against background baseline analyte concentrations.
3. Deuterium, total iron, and ferrous iron response is aligned with the visual of the precipitate formation (based on injection date).
4. The initial precipitate formation was seen at 12.42% injection dosing of deuterium.
5. The maximum deuterium response was 55.15%. The maximum total iron response was 31.95% (578 milligrams per liter).



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PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

DOSE-RESPONSE PARAMETER RESULTS: DR-03

ARCADIS

FIGURE
4

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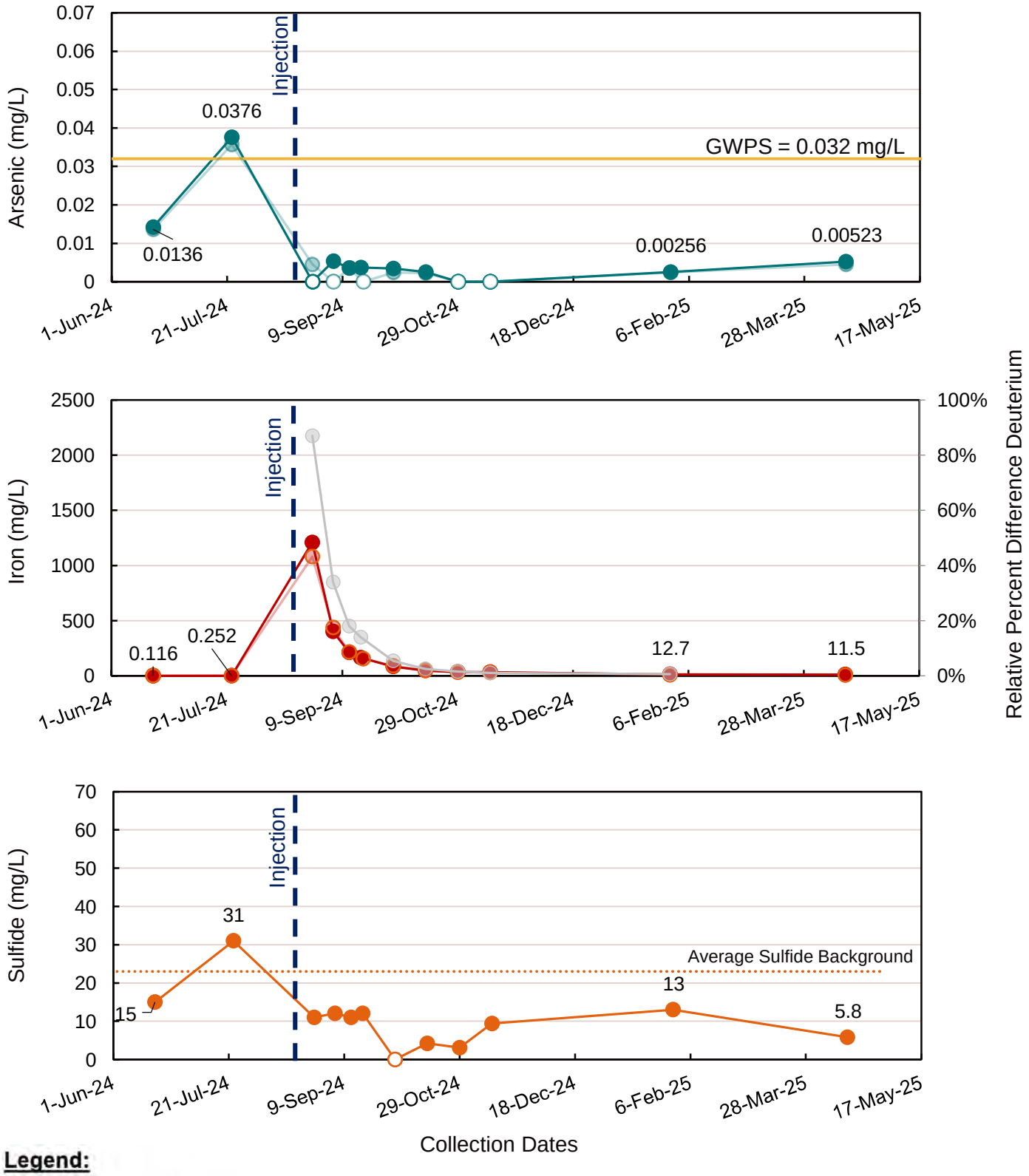

Legend:

- Total Arsenic
- Dissolved Arsenic
- Total Iron
- Dissolved Iron
- Deuterium
- Sulfide

Notes:

1. Detects are plotted with a full circle. Non-detects are plotted with an open circle.
2. The method detection limit is used for non-detects.
3. The GWPS for arsenic is plotted in yellow.
4. Final concentrations are labeled for total arsenic, total iron, and sulfide.
5. Average sulfide background is calculated from the 6/19/24 and 7/23/24 datapoints.

Abbreviations:

GWPS – groundwater protection standard
mg/L – milligrams per liter

GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

CONCENTRATION TIME SERIES: DR-03

ARCADIS

FIGURE
5

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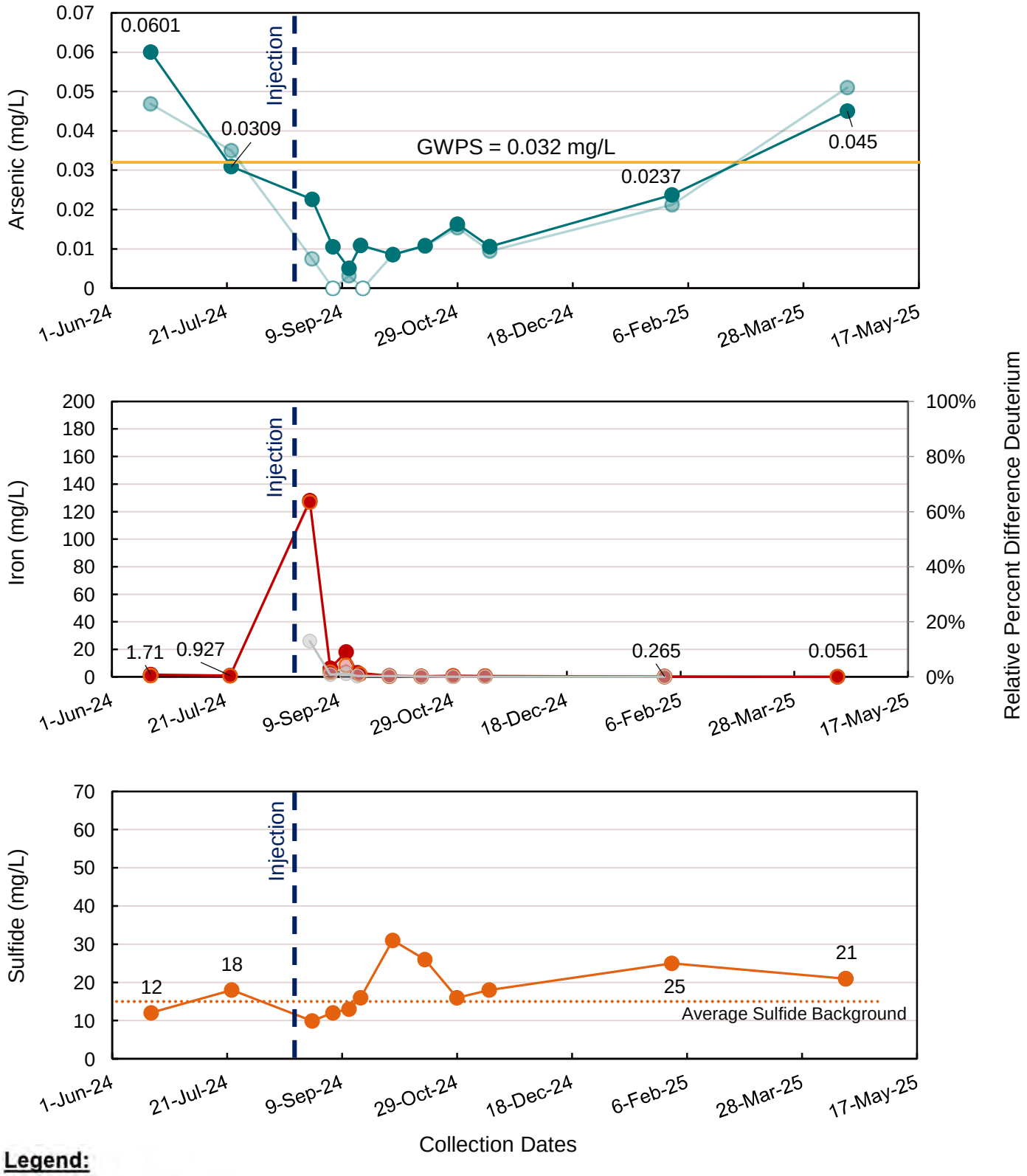

Legend:

- Total Arsenic
- Dissolved Arsenic
- Total Iron
- Dissolved Iron
- Deuterium
- Sulfide

Notes:

1. Detects are plotted with a full circle. Non-detects are plotted with an open circle.
2. The method detection limit is used for non-detects.
3. The GWPS for arsenic is plotted in yellow.
4. Final concentrations are labeled for total arsenic, total iron, and sulfide.
5. Average sulfide background is calculated from the 6/18/24 and 7/23/24 datapoints.

Abbreviations:

GWPS – groundwater protection standard
mg/L – milligrams per liter

GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

CONCENTRATION TIME SERIES: PT-03

ARCADIS

FIGURE
6

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Tables

Table 1
Pilot Study Well Network Construction Details
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Well ID	Well Purpose	Installation Date	Northing[a] (feet NAD 83)	Easting[a] (feet NAD 83)	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation[b] (feet NAVD 88)	Total Depth (feet btoc)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screened Length (feet)
INW-01	Temporary Injection Well	6/1/2024	444418.01	850792.41	7.18	7.50	31.05	-8.45	-23.5	15
DR-02	Temporary Corrective Action Dose Response Piezometers	5/26/2022	444411.68	850784.46	7.49	7.90	30.59	-8.10	-23.10	15
PT-03		6/1/2022	444418.92	850785.95	7.45	7.93	24.72	-7.27	-17.27	10
DR-03		6/1/2024	444422.02	850792.49	7.40	7.65	31.50	-8.25	-23.25	15
PT-01	Temporary Corrective Action Performance Monitoring Piezometers	5/26/2022	444408.70	850768.53	7.49	7.82	24.67	-7.18	-17.18	10
PT-02		5/31/2022	444414.19	850777.91	7.64	7.91	24.73	-6.59	-16.59	10
DR-01		5/26/2022	444407.62	850777.93	7.58	7.86	30.72	-8.14	-23.14	15
MCM-06[c]	Detection Well	7/8/2016	444407.22	850782.11	10.15	7.87	27.20	-6.27	-16.27	10

Notes:

[a] Measured in Georgia State Plane - North American Datum of 1983 (NAD 83) East Zone.

[b] Ground surface was measured at the mag nail in the concrete pad.

[c] Due to the proximity of MCM-06 to the pilot study well network, it was also monitored as a performance monitoring well.

Acronyms and Abbreviations:

btoc = below top of casing

NAVD 88 = North American Vertical Datum of 1988

Table 2
Summary of Baseline Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Constituent	Groundwater Protection Standard (GWPS)	Unit	Temporary Injection Well		Temporary Corrective Action Dose Response Piezometers					
			INW-01	INW-01	DR-02	DR-02	PT-03	PT-03	DR-03	DR-03
		Date	6/19/2024	7/23/2024	6/18/2024	7/23/2024	6/18/2024	7/23/2024	6/19/2024	7/23/2024
Primary Performance Monitoring Parameters										
Total Arsenic	0.032	mg/L	0.00780	0.00789 J	0.0482	0.0726	0.0601	0.0309	0.0142	0.0376
Dissolved Arsenic	--	mg/L	0.00981	0.0107	0.0481	0.0525	0.0469	0.0350	0.0136	0.0357
Iron	--	mg/L	0.709	2.67	0.967	3.99	1.71	0.927	0.116	0.252
Dissolved Iron	--	mg/L	0.553	2.04	0.237	0.163	0.925	0.833	0.0657 J	0.106
Sulfide	--	mg/L	13	14	26	33	12	18	15	31
Sulfate	--	mg/L	556	657	320	285	425	493	268	242
Deuterium (δ^2H H_2O)	--	‰	8.68 ± 0.4	NA	8.13 ± 0.3	NA	9.94 ± 0.4	NA	6.45 ± 0.3	NA
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring										
Total Antimony	0.006	mg/L	<0.00100	NA	<0.00100	NA	<0.00100	NA	<0.00100	NA
Dissolved Antimony	--	mg/L	<0.00100	NA	<0.00100	NA	<0.00100	NA	<0.00100	NA
Total Barium	2	mg/L	0.282	NA	0.0703	NA	0.356	NA	0.0229	NA
Dissolved Barium	--	mg/L	0.304	NA	0.0752	NA	0.351	NA	0.0231	NA
Total Beryllium	0.021	mg/L	<0.000200	NA	<0.000200	NA	<0.000200	NA	<0.000200	NA
Dissolved Beryllium	--	mg/L	<0.000200	NA	<0.000200	NA	<0.000200	NA	<0.000200	NA
Total Cadmium	0.005	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
Dissolved Cadmium	--	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
Total Chromium	0.1	mg/L	<0.00300	NA	<0.00300	NA	<0.00300	NA	<0.00300	NA
Dissolved Chromium	--	mg/L	<0.00300	NA	<0.00300	NA	0.0173	NA	<0.00300	NA
Total Cobalt	0.036	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
Dissolved Cobalt	--	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
Fluoride	4	mg/L	<0.165	NA	0.488 J	NA	0.287 J	NA	0.366 J	NA
Total Lead	0.015	mg/L	<0.000500	NA	<0.000500	NA	<0.000500	NA	<0.000500	NA
Dissolved Lead	--	mg/L	<0.000500	NA	<0.000500	NA	<0.000500	NA	<0.000500	NA
Total Lithium	0.049	mg/L	0.0258	NA	0.0400	NA	0.0256	NA	0.0402	NA
Dissolved Lithium	--	mg/L	0.0261	NA	0.0408	NA	0.0256	NA	0.0400	NA
Total Mercury	0.002	mg/L	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA
Dissolved Mercury	--	mg/L	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA
Total Molybdenum	0.1	mg/L	0.000475 J	NA	0.000792 J	NA	0.000706 J	NA	0.000468 J	NA
Dissolved Molybdenum	--	mg/L	<0.000200	NA	0.000505 J	NA	0.00062 J	NA	0.000306 J	NA
Total Selenium	0.05	mg/L	0.00158 J	NA	<0.00150	NA	<0.00150	NA	<0.00150	NA
Dissolved Selenium	--	mg/L	0.00205 J	NA	<0.00150	NA	<0.00150	NA	<0.00150	NA
Total Thallium	0.002	mg/L	<0.000600	NA	<0.000600	NA	<0.000600	NA	<0.000600	NA
Dissolved Thallium	--	mg/L	<0.000600	NA	<0.000600	NA	<0.000600	NA	<0.000600	NA

Table 2
Summary of Baseline Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Constituent	Groundwater Protection Standard (GWPS)	Unit	Temporary Injection Well		Temporary Corrective Action Dose Response Piezometers					
			INW-01	INW-01	DR-02	DR-02	PT-03	PT-03	DR-03	DR-03
		Date	6/19/2024	7/23/2024	6/18/2024	7/23/2024	6/18/2024	7/23/2024	6/19/2024	7/23/2024
40 CFR Part 257 Appendix III and Geochemical Parameters										
Bicarbonate Alkalinity as CaCO3	--	mg/L	231	203	318	294	215	192	339	321
Carbonate Alkalinity as CaCO3	--	mg/L	<0.725	<0.725	<0.725	<0.725	<0.725	<0.725	4.0	13.0
Total Alkalinity as CaCO3	--	mg/L	231	203	318	294	215	192	343	334
Total Boron	--	mg/L	0.519	NA	0.830	NA	0.572	NA	0.878	NA
Dissolved Boron	--	mg/L	0.518	NA	0.808	NA	0.596	NA	0.880	NA
Total Calcium	--	mg/L	234	250	88.3	102	156	186	57.9	64
Dissolved Calcium	--	mg/L	222	239	87.7	105	165	181	57.1	63.9
Chloride	--	mg/L	4,710	4,930	2,400	2,840	3,390	3,970	1,880	2,090
Total Magnesium	--	mg/L	314	330	144	169	218	270	96.9	108
Dissolved Magnesium	--	mg/L	288	312	143	174	234	266	95.7	108
Total Manganese	--	mg/L	0.238	0.184	0.0841	0.110	0.106	0.121	0.147	0.112
Dissolved Manganese	--	mg/L	0.244	0.181	0.0835	0.0978	0.105	0.124	0.147	0.113
Total Potassium	--	mg/L	83.6	90.4	59.2	62.7	64.0	78.7	50.7	53.3
Dissolved Potassium	--	mg/L	79.9	85.4	57.8	64.4	67.4	77.0	50.2	51.9
Total Sodium	--	mg/L	2,390	2,620	1,490	1,430	1,750	1,990	1,260	1,220
Dissolved Sodium	--	mg/L	2,220	2,550	1,440	1,550	1,810	2,020	1,260	1,270
Total Dissolved Solids	--	mg/L	7,990	9,320	4,740	4,990	6,060	6,880	4,010	3,860
Field Parameters										
Dissolved Oxygen	--	mg/L	0.053	0.079	0.043	0.276	0.035	0.091	0.010	0.068
Oxidation Reduction Potential	--	mV	-194.1	-265.0	-202.0	-252.6	-58.2	-264.1	-271.6	-328.7
pH	--	S.U.	6.66	6.64	7.21	7.20	6.47	6.50	7.53	7.50
Specific Conductance	--	µS/cm	14,231	15,302	8,670	9,036	11,243	12,086	7,145	7,104
Turbidity	--	NTU	0.35	1.32	0.27	0.41	2.43	2.55	1.93	1.58
Temperature	--	°C	25.6	26.4	24.6	24.4	24.8	25.4	25.3	28.7
Arsenic Speciation										
Arsenite	--	µg/L	<0.800 J	NA	<0.800 J	NA	4.20 J	NA	<0.800 J	NA
Arsenate	--	µg/L	<2.00 J	NA	<2.00 J	NA	<2.00 J	NA	<2.00 J	NA
Dimethylarsinic Acid	--	µg/L	<1.00 J	NA	<1.00 J	NA	<1.00 J	NA	<1.00 J	NA
Monomethylarsonic Acid	--	µg/L	<0.800 J	NA	<0.800 J	NA	<0.800 J	NA	<0.800 J	NA
Unknown Arsenic Species	--	µg/L	2.76 J	NA	66.2 J	NA	81.0 J	NA	13.5 J	NA

Table 2
Summary of Baseline Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Constituent	Groundwater Protection Standard (GWPS)	Unit	Temporary Corrective Action Performance Monitoring Piezometers						Detection Monitoring Well	
			PT-01	PT-01	PT-02	PT-02	DR-01	DR-01	MCM-06	MCM-06
		Date	6/19/2024	7/23/2024	6/18/2024	7/23/2024	6/18/2024	7/23/2024	6/19/2024	7/23/2024
Primary Performance Monitoring Parameters										
Total Arsenic	0.032	mg/L	0.0132	0.0111	0.0180	0.00458 J	0.0342	0.0258	0.0776	0.0762
Dissolved Arsenic	--	mg/L	0.0117	0.0131	0.0146	0.00703 J	0.0311	0.0249	0.0897	0.0900
Iron	--	mg/L	0.244	0.213	1.98	3.58	0.514	0.439	0.0721 J	0.0385 J
Dissolved Iron	--	mg/L	0.148	0.312	1.89	3.62	0.319	0.410	0.0661 J	0.146
Sulfide	--	mg/L	13	22	16 J	13	22	26	31	42
Sulfate	--	mg/L	454	452	379	460	399	467	269	293
Deuterium (δ^2H H_2O)	--	‰	9.51 ± 0.2	NA	9.85 ± 0.4	NA	9.30 ± 0.4	NA	9.94 ± 0.3	NA
40 CFR Part 257 Appendix IV - Constituents for Assessment M										
Total Antimony	0.006	mg/L	<0.00100	NA	<0.00100	NA	<0.00100	NA	<0.00100	NA
Dissolved Antimony	--	mg/L	<0.00100	NA	<0.00100	NA	<0.00100	NA	<0.00100	NA
Total Barium	2	mg/L	0.725	NA	0.517	NA	0.258	NA	0.0528	NA
Dissolved Barium	--	mg/L	0.671	NA	0.498	NA	0.241	NA	0.0560	NA
Total Beryllium	0.021	mg/L	<0.000200	NA	<0.000200	NA	<0.000200	NA	<0.000200	NA
Dissolved Beryllium	--	mg/L	<0.000200	NA	<0.000200	NA	<0.000200	NA	<0.000200	NA
Total Cadmium	0.005	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
Dissolved Cadmium	--	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
Total Chromium	0.1	mg/L	<0.00300	NA	<0.00300	NA	<0.00300	NA	<0.00300	NA
Dissolved Chromium	--	mg/L	<0.00300	NA	<0.00300	NA	<0.00300	NA	<0.00300	NA
Total Cobalt	0.036	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
Dissolved Cobalt	--	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
Fluoride	4	mg/L	0.283 J	NA	0.289 J	NA	0.33 J	NA	0.439 J	NA
Total Lead	0.015	mg/L	<0.000500	NA	<0.000500	NA	<0.000500	NA	<0.000500	NA
Dissolved Lead	--	mg/L	<0.000500	NA	<0.000500	NA	<0.000500	NA	<0.000500	NA
Total Lithium	0.049	mg/L	0.0237	NA	0.0191	NA	0.0358	NA	0.0391	NA
Dissolved Lithium	--	mg/L	0.0226	NA	0.0181	NA	0.0344	NA	0.0412	NA
Total Mercury	0.002	mg/L	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA
Dissolved Mercury	--	mg/L	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA
Total Molybdenum	0.1	mg/L	0.000619 J	NA	0.000531 J	NA	0.000624 J	NA	0.000894 J	NA
Dissolved Molybdenum	--	mg/L	0.000358 J	NA	0.000249 J	NA	0.000424 J	NA	0.000389 J	NA
Total Selenium	0.05	mg/L	<0.00150	NA	<0.00150	NA	<0.00150	NA	<0.00150	NA
Dissolved Selenium	--	mg/L	<0.00150	NA	<0.00150	NA	<0.00150	NA	<0.00150	NA
Total Thallium	0.002	mg/L	<0.000600	NA	<0.000600	NA	<0.000600	NA	<0.000600	NA
Dissolved Thallium	--	mg/L	<0.000600	NA	<0.000600	NA	<0.000600	NA	<0.000600	NA

Table 2
Summary of Baseline Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Constituent	Groundwater Protection Standard (GWPS)	Unit	Temporary Corrective Action Performance Monitoring Piezometers						Detection Monitoring Well	
			PT-01	PT-01	PT-02	PT-02	DR-01	DR-01	MCM-06	MCM-06
		Date	6/19/2024	7/23/2024	6/18/2024	7/23/2024	6/18/2024	7/23/2024	6/19/2024	7/23/2024
40 CFR Part 257 Appendix III and Geochemical Parameters										
Bicarbonate Alkalinity as CaCO3	--	mg/L	232	235	222	183	259	240	309	284
Carbonate Alkalinity as CaCO3	--	mg/L	<0.725	<0.725	<0.725	<0.725	<0.725	<0.725	<0.725	<0.725
Total Alkalinity as CaCO3	--	mg/L	232	235	222	183	259	240	309	284
Total Boron	--	mg/L	0.657	NA	0.539	NA	0.637	NA	0.645	NA
Dissolved Boron	--	mg/L	0.665	NA	0.554	NA	0.643	NA	0.676	NA
Total Calcium	--	mg/L	169	187	142	176	126	157	85.3	116
Dissolved Calcium	--	mg/L	170	181	151	176	129	160	87.9	114
Chloride	--	mg/L	3,570	4,020	3,140	3,740	3,210	3,920	2,180	2,800
Total Magnesium	--	mg/L	228	267	207	262	210	270	150	207
Dissolved Magnesium	--	mg/L	231	260	219	257	216	277	154	207
Total Manganese	--	mg/L	0.285	0.278	0.357	0.394	0.155	0.185	0.0960	0.139
Dissolved Manganese	--	mg/L	0.265	0.285	0.339	0.405	0.142	0.192	0.102	0.147
Total Potassium	--	mg/L	71.8	85.1	61.9	73.5	66.9	78.1	59.3	69.7
Dissolved Potassium	--	mg/L	72.1	78.9	63.7	71.3	67.8	78.7	61.4	70.0
Total Sodium	--	mg/L	1,740	1,930	1,570	1,820	1,730	1,930	1,260	1,380
Dissolved Sodium	--	mg/L	1,720	1,900	1,660	1,860	1,740	2,060	1,250	1,430
Total Dissolved Solids	--	mg/L	6,380	6,730	5,610	6,490	5,980	7,200	4,360	4,960
Field Parameters										
Dissolved Oxygen	--	mg/L	0.059	0.063	0.042	0.032	0.057	0.047	0.026	0.008
Oxidation Reduction Potential	--	mV	-245.2	-291.3	-317.9	-232.0	-296.9	-313.6	-127.5	-353.3
pH	--	S.U.	6.61	6.74	6.47	6.45	6.82	6.87	7.12	7.08
Specific Conductance	--	µS/cm	11,265	11,630	10,311	10,754	10,805	11,273	7,884	8,561
Turbidity	--	NTU	0.29	0.17	0.36	0.86	0.12	0.21	0.04	0.07
Temperature	--	°C	24.7	25.0	24.8	28.3	23.7	26.2	24.2	27.3
Arsenic Speciation										
Arsenite	--	µg/L	<0.800 J	NA	<0.800 J	NA	1.36 J	NA	0.928 J	NA
Arsenate	--	µg/L	<2.00 J	NA	<2.00 J	NA	<2.00 J	NA	<2.00 J	NA
Dimethylarsinic Acid	--	µg/L	<1.00 J	NA	<1.00 J	NA	<1.00 J	NA	<1.00 J	NA
Monomethylarsonic Acid	--	µg/L	<0.800 J	NA	<0.800 J	NA	<0.800 J	NA	<0.800 J	NA
Unknown Arsenic Species	--	µg/L	8.48 J	NA	19.7 J	NA	35.9 J	NA	121 J	NA

Table 2
Summary of Baseline Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Notes:

1. Analytical methods are provided in Table 5.
2. The evaluation of 40 CFR Part 257 Appendix IV constituents excludes radium.
3. "Unknown arsenic species" is the total estimated concentration of any unidentified arsenic-containing species. Previous analytical data evaluating the "unknown arsenic species" results have demonstrated that these species are thioarsenic species (Arcadis 2024).
4. Arsenic speciation samples arrived at laboratory at a temperature of 7.5 °C, slightly greater than the recommended temperature (6 °C). Results are estimated.
5. “J” qualifiers are applied by the laboratory when the reported concentration is above the method detection limit, but below the laboratory reporting limit.

Acronyms and Abbreviations:

$CaCO_3$ = calcium carbonate
J = estimated value (see Note 5)
mg/L = milligram per liter
mV = millivolt
NA = not analyzed
NTU = nephelometric turbidity unit
ORP = oxidation-reduction potential
ppt = part per trillion
S.U. = standard unit
USEPA = United States Environmental Protection Agency
< = not detected at or above method detection limit
°C = degree Celsius
µg/L = microgram per liter
µS/cm = microSiemen per centimeter
‰ = per mil
$\delta^2H\ H_2O$ = delta notation measurement of stable hydrogen isotope concentrations. Results are compared to a known standard (δ^2H_s/δ^1H_s) by the following equation: $\delta^2H\ H_2O = ([(\delta^2H/\delta^1H)\div(\delta^2H_s/\delta^1H_s)]-1)x1000$. Negative results indicate depletion of the rare isotope compared to standard. Positive results indicate enrichment of the rare isotope compared to standard.

Reference:

Arcadis. 2024. Draft Remedy Selection Report. Plant McManus Former Ash Pond 1, Brunswick, Georgia. January 18.

Table 3
Summary of Daily Injection Activities
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Date	INW-01		
	Maximum Well Head Pressure (psi)	Daily Injection Solution Volume (gallons)	Potable Water/Clean Wash (gallons)
8/13/2024	--	--	Initial Leak Test - 50
8/13/2024	0.2	472	50
8/14/2024	0.1	709	50
8/15/2024	0.3	746	50
8/16/2024	0.7	748	50
8/17/2024	0.7	711	50
8/18/2024	0.8	475	50
8/19/2024	0.7	468	50
Maximum	**0.8**	**748**	**50**
Average	**--**	**618**	**50**
Total	**--**	**4,329**	**400**

Notes:

1. At the close of each day, 50 gallons of potable water were used to rinse the injection well to limit precipitate formation.

2. Wellhead pressure remained below 1 pound per square inch (psi) for the duration of the injection, which was well below the limit of 5 psi presented in the Pilot Test Notification Form.

3. The daily maximum injection volume remained below the value included in the Pilot Test Notification Form (3,000 gallons per day).

Abbreviations:

-- = not applicable
psi = pound per square inch

Table 4
Summary of Injection Dose-Response Monitoring Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Location ID	Lab Sample ID	Gallons Injected	Date	Total Arsenic (mg/L)	Total Iron (mg/L)	Relative Iron Concentration (%)	Ferrous Iron (mg/L)	Relative Ferrous Iron Concentration (%)	Deuterium (‰)	Relative Concentration Deuterium (%)
Temporary Corrective Action Dose Response Piezometers										
DR-03	MCM-DR-03(8132024)(0000)	0	8/13/24	0.0760	8.54	0.00%	0.0	0.00%	7.44 ± 0.17	0.00%
	MCM-DR-03(8132024)(0472)	472	8/13/24	NA	5.69	-0.16%	0.1	0.01%	0.35 ± 0.06	-0.23%
	MCM-DR-03(8142024)(0472)	472	8/14/24	NA	76.1	3.77%	1.3	0.07%	386 ± 0.19	12.42%
	MCM-DR-03(8142024)(0938)	938	8/14/24	NA	84.3	4.23%	1.0	0.06%	322 ± 3.70	10.32%
	MCM-DR-03(8142024)(1181)	1181	8/14/24	NA	157	8.29%	2.0	0.11%	540 ± 0.94	17.51%
	MCM-DR-03(8152024)(1181)	1181	8/15/24	NA	416	22.74%	2.0	0.11%	1039 ± 5.01	33.89%
	MCM-DR-03(8152024)(1520)	1520	8/15/24	NA	175	9.29%	NA	NA	759 ± 3.99	24.69%
	MCM-DR-03(8152024)(1688)	1688	8/15/24	NA	191	10.18%	2.0	0.11%	758 ± 0.76	24.65%
	MCM-DR-03(8162024)(1927)	1927	8/16/24	NA	570	31.34%	7.5	0.42%	1276 ± 4.73	41.68%
	MCM-DR-03(08162024)(2418)	2418	8/16/24	NA	365	19.90%	3.5	0.19%	1190 ± 1.69	38.83%
	MCM-DR-03(08172024)(2675)	2675	8/17/24	NA	497	27.27%	6.5	0.36%	1343 ± 1.54	43.88%
	MCM-DR-03(08172024)(3136)	3136	8/17/24	NA	393	21.46%	3.7	0.21%	1177 ± 1.60	38.42%
	MCM-DR-03(08182024)(3386)	3386	8/18/24	NA	463	25.37%	5.5	0.31%	1322 ± 1.53	43.19%
	MCM-DR-03(08182024)(3861)	3861	8/18/24	NA	561	30.84%	6.0	0.33%	1686 ± 3.03	55.15%
	MCM-DR-03(08192024)(4329)	4329	8/19/24	0.0450	578	31.79%	7.5	0.42%	1490 ± 1.98	48.71%
PT-03	MCM-PT-03(08132024)(0000)	0	8/13/24	0.0642	8.21	0.00%	1.8	0.00%	5.30 ± 0.23	-0.07%
	MCM-PT-03(08142024)(0472)	472	8/14/24	NA	33.9	1.43%	1.3	-0.03%	4.61 ± 0.24	-0.09%
	MCM-PT-03(08142024)(0938)	938	8/14/24	NA	20.3	0.67%	0.5	-0.07%	6.23 ± 0.32	-0.04%
	MCM-PT-03(08142024)(1181)	1181	8/14/24	NA	9.06	0.05%	1.0	-0.04%	16.3 ± 0.37	0.29%
	MCM-PT-03(08152024)(1181)	1181	8/15/24	NA	23.8	0.87%	1.5	-0.01%	3.42 ± 0.13	-0.13%
	MCM-PT-03(08152024)(1570)	1570	8/15/24	NA	1.49	-0.38%	1.3	-0.03%	71.9 ± 0.47	2.12%
	MCM-PT-03(08152024)(1688)	1688	8/15/24	NA	3.08	-0.29%	1.1	-0.04%	37.6 ± 0.38	0.99%
	MCM-PT-03(08162024)(1927)	1927	8/16/24	NA	20.5	0.69%	1.3	-0.03%	28.0 ± 0.35	0.67%
	MCM-PT-03(08162024)(2181)	2181	8/16/24	NA	13.0	0.27%	1.5	-0.01%	81.2 ± 0.67	2.42%
	MCM-PT-03(08162024)(2421)	2421	8/16/24	NA	10.7	0.14%	2.0	0.01%	94.7 ± 0.32	2.87%
	MCM-PT-03(08162024)(2675)	2675	8/16/24	NA	29.8	1.20%	1.7	0.00%	233 ± 0.88	7.40%
	MCM-PT-03(08172024)(2675)	2675	8/17/24	NA	38.1	1.67%	6.0	0.24%	65.5 ± 0.65	1.91%
	MCM-PT-03(08172024)(2899)	2899	8/17/24	NA	27.5	1.08%	1.8	0.00%	290 ± 1.55	9.27%
	MCM-PT-03(08172024)(3136)	3136	8/17/24	NA	60.7	2.93%	2.5	0.04%	233 ± 2.06	7.41%
	MCM-PT-03(08182024)(3386)	3386	8/18/24	NA	9.44	0.07%	NA	NA	60.1 ± 0.43	1.73%
	MCM-PT-03(08192024)(3861)	3861	8/18/24	NA	83.6	4.21%	2.0	0.01%	556 ± 2.50	18.02%
	MCM-PT-03(08182024)(4329)	4329	8/19/24	0.147	55.2	2.62%	2.5	0.04%	206 ± 1.68	6.52%

Table 4
Summary of Injection Dose-Response Monitoring Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Location ID	Lab Sample ID	Gallons Injected	Date	Total Arsenic (mg/L)	Total Iron (mg/L)	Relative Iron Concentration (%)	Ferrous Iron (mg/L)	Relative Ferrous Iron Concentration (%)	Deuterium (‰)	Relative Concentration Deuterium (%)
Temporary Corrective Action Dose Response Piezometers										
DR-02	MCM-DR-02(08132024)(0000)	0	8/13/24	0.347	19.3	1.02%	0.0	0.00%	5.48 ± 0.17	-0.06%
	MCM-DR-02(08142024)(0938)	938	8/14/24	NA	67.5	3.70%	0.2	0.01%	8.31 ± 0.05	0.03%
	MCM-DR-02(08152024)(1181)	1181	8/15/24	NA	21.6	1.15%	0.1	0.01%	5.93 ± 0.16	-0.05%
	MCM-DR-02(08152024)(1688)	1688	8/15/24	NA	5.74	0.27%	0.1	0.01%	9.59 ± 0.34	0.07%
	MCM-DR-02(08162024)(2181)	2181	8/16/24	NA	0.450	-0.03%	0.1	0.01%	7.85 ± 0.29	0.01%
	MCM-DR-02(08162024)(2421)	2421	8/16/24	NA	0.421	-0.03%	0.1	0.01%	8.49 ± 0.49	0.03%
	MCM-DR-02(08172024)(2724)	2724	8/17/24	NA	0.738	-0.01%	0.5	0.03%	7.63 ± 0.32	0.01%
	MCM-DR-02(08172024)(2899)	2899	8/17/24	NA	0.499	-0.03%	0.1	0.01%	8.48 ± 0.35	0.03%
	MCM-DR-02(08172024)(3136)	3136	8/17/24	NA	15.6	0.81%	0.2	0.01%	14.5 ± 0.25	0.23%
	MCM-DR-02(08172024)(3386)	3386	8/17/24	NA	0.881	0.00%	0.2	0.01%	11.6 ± 0.49	0.14%
	MCM-DR-02(08182024)(3386)	3386	8/18/24	NA	0.701	-0.01%	0.2	0.01%	9.1 ± 0.36	0.05%
	MCM-DR-02(08182024)(3861)	3861	8/18/24	NA	0.154	-0.05%	0.2	0.01%	11.2 ± 0.20	0.12%
	MCM-DR-02(08192024)(4329)	4329	8/19/24	0.0595	0.858	-0.01%	0.5	0.03%	20.6 ± 0.27	0.43%
Temporary Corrective Action Performance Monitoring Piezometer										
DR-01	DR-01(08132024)(0000)	0	8/13/24	0.0242 J	2.05	0.00%	1.0	0.00%	7.07 ± 0.19	-0.01%
	DR-01(08162024)(2010)	2010	8/16/24	NA	4.12	0.12%	1.0	0.00%	6.66 ± 0.51	-0.03%
	DR-01(08172024)(2792)	2792	8/17/24	NA	11.1	0.50%	0.3	-0.04%	6.6 ± 0.20	-0.03%
	DR-01(08192024)(4329)	4329	8/19/24	0.0789	3.35	0.07%	NA	NA	7.57 ± 0.24	0.00%
PT-01	MCM-PT-01(08132024)(0000)	0	8/13/24	0.0253	3.23	0.00%	0.1	0.00%	4.69 ± 0.28	-0.09%
	MCM-PT-01(08152024)(1181)	1181	8/15/24	NA	1.76	-0.08%	0.2	0.01%	5.6 ± 0.38	-0.06%
	MCM-PT-01(08162024)(1967)	1967	8/16/24	NA	3.71	0.03%	1.0	0.05%	6.54 ± 0.22	-0.03%
	MCM-PT-01(08192024)(4329)	4329	8/19/24	0.0325	3.11	-0.01%	NA	NA	7.21 ± 0.29	-0.01%
PT-02	MCM-PT02 (08132024)(0000)	0	8/13/24	0.0101 J	7.36	0.00%	3.5	0.00%	5.42 ± 0.32	-0.07%
	MCM-PT02 (08162024)(1927)	1927	8/16/24	NA	5.46	-0.11%	2.0	-0.08%	4.74 ± 0.25	-0.09%
	MCM-PT02 (08192024)(4329)	4329	8/19/24	0.0164 J	4.18	-0.18%	NA	NA	5.82 ± 0.31	-0.05%
Detection Monitoring Well										
MCM-06	MCM-MCM-06(08132024)(0000)	0	8/13/24	0.0786	<0.0330	0.00%	0.0	0.00%	7.71 ± 0.31	0.01%
	MCM-MCM-06(08152024)(1233)	1233	8/15/24	NA	<0.0330	0.00%	0.0	0.00%	9.43 ± 0.53	0.07%
	MCM-MCM-06(08162024)(1983)	1983	8/16/24	NA	<0.0330	0.00%	0.0	0.00%	8.56 ± 0.27	0.04%
	MCM-MCM-06(08182024)(3386)	3386	8/18/24	NA	<0.0330	0.00%	0.0	0.00%	8.68 ± 0.19	0.04%
	MCM-MCM-06(08192024)(4329)	4329	8/19/24	0.0738	<0.0330	0.00%	0.0	0.00%	9.09 ± 0.19	0.05%
Injection Solution										
Injection Solution	MCM-Batch 01 (08132024)	NA	8/13/24	NA	1630	NA	NA	NA	2981 ± 10.00	NA
	MCM-Batch 05 (08152024)	NA	8/15/24	NA	1920	NA	NA	NA	3205 ± 4.10	NA
	MCM-Batch 10 (08162024)	NA	8/16/24	NA	1610	NA	NA	NA	2838 ± 2.80	NA
	MCM-Batch 15 (08182024)	NA	8/18/24	NA	2040	NA	NA	NA	3116 ± 9.10	NA

Notes:

1. Lab sample ID is associated with analytical analysis (see Section 3 for more information). Ferrous iron was analyzed with a Hach® test kit in the field.

2. "J" qualifiers are applied by the laboratory when the reported concentration is above the method detection limit, but below the laboratory reporting limit.

3. Relative concentrations calculated based on the following equation: $A=([C]_{sample}-[C]_{baseline})/([C]_{injected}-[C]_{baseline})$. Where $[C]_{sample}$ is the concentration at a given sampling point, $[C]_{baseline}$ is the baseline concentration, and $[C]_{injected}$ is the concentration of the injection solution.

4. The initial concentration for deuterium, total iron, and ferrous iron from August 13, 2024 at the start of injection (i.e., zero gallons injected) was used in all instances to calculate relative iron except for the total iron at DR-02 due to anomalously high iron value (19.3 mg/L) relative to the pre-injection period (0.97 mg/L on June 18, 2024; Table 2).

Acronyms and Abbreviations:
ID = identification
J = estimated value (see Note 2)
mg/L = milligrams per liter
% = percent
‰ = per mil
NA = not analyzed/applicable
< = not detected at or above method detection limit

Table 5
Pilot Study Sample Schedule - Post-Injection Monitoring
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Parameter		Analytical Method	GWPS (mg/L)	Baseline Sampling		Post Injection Monitoring						Post Injection Monitoring			
						Month 1				Month 2		Month 3		Month 6	Month 9
						Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12	Week 23	Week 34
Sampling Event Dates				6/18/2024 6/19/2024	7/23/2024	8/27/2024 8/28/2024	9/5/2024	9/12/2024	9/17/2024 9/18/2024	10/1/2024 10/2/2024	10/15/2024 10/16/2024	10/29/2024	11/12/2024 11/13/2024	1/29/2025 1/30/2025	4/15/2025 4/16/2025
Primary Performance Monitoring Parameters	Arsenic	USEPA 6020B	0.032	X	X	X	X	X	X	X	X	X	X	X	X
	Iron	USEPA 6020B	--	X	X	X	X	X	X	X	X	X	X	X	X
	Sulfide	SM 4500-S2D	--	X	X	X	X	X	X	X	X	X	X	X	X
	Sulfate	USEPA 300.0	--	X	X	X	X	X	X	X	X	X	X	X	X
	Deuterium (δ^2H H_2O)	IRMS	--	X		X	X	X	X	X	X	X	X	X	X
Appendix IV Parameters	Antimony	USEPA 6020B	0.006	X		X	X	X	X	X	X	X	X	X	X
	Barium	USEPA 6020B	2	X		X	X	X	X	X	X	X	X	X	X
	Beryllium	USEPA 6020B	0.021	X		X	X	X	X	X	X	X	X	X	X
	Cadmium	USEPA 6020B	0.005	X		X	X	X	X	X	X	X	X	X	X
	Chromium	USEPA 6020B	0.10	X		X	X	X	X	X	X	X	X	X	X
	Cobalt	USEPA 6020B	0.036	X		X	X	X	X	X	X	X	X	X	X
	Fluoride	USEPA 300.0	4	X		X	X	X	X	X	X	X	X	X	X
	Lead	USEPA 6020B	0.015	X		X	X	X	X	X	X	X	X	X	X
	Lithium	USEPA 6020B	0.049	X		X	X	X	X	X	X	X	X	X	X
	Mercury	USEPA 7470A	0.002	X		X	X	X	X	X	X	X	X	X	X
	Molybdenum	USEPA 6020B	0.1	X		X	X	X	X	X	X	X	X	X	X
	Selenium	USEPA 6020B	0.05	X		X	X	X	X	X	X	X	X	X	X
	Thallium	USEPA 6020B	0.002	X		X	X	X	X	X	X	X	X	X	X
Geochemical Parameters/ Appendix III Parameters	Alkalinity	SM 2320B	--	X	X	X			X		X		X	X	X
	Boron	USEPA 6020B	--	X		X	X	X	X	X	X	X	X	X	X
	Calcium	USEPA 6020B	--	X	X	X			X		X		X	X	X
	Chloride	SM 4500	--	X	X	X	X	X	X	X	X	X	X	X	X
	Magnesium	USEPA 6020B	--	X	X	X			X		X		X	X	X
	Manganese	USEPA 6020B	--	X	X	X			X		X		X	X	X
	Potassium	USEPA 6020B	--	X	X	X			X		X		X	X	X
	Sodium	USEPA 6020B	--	X	X	X			X		X		X	X	X
	Total Dissolved Solids	SM 2540C	--	X	X	X			X		X		X	X	X
	Arsenic Speciation	IC-ICP-MS	--	X		X			X		X		X	X	X
Field Parameters	Dissolved Oxygen	Field Measurement	--	X	X	X	X	X	X	X	X	X	X	X	X
	Oxidation Reduction Potential	Field Measurement	--	X	X	X	X	X	X	X	X	X	X	X	X
	pH	Field Measurement	--	X	X	X	X	X	X	X	X	X	X	X	X
	Specific Conductance	Field Measurement	--	X	X	X	X	X	X	X	X	X	X	X	X
	Temperature	Field Measurement	--	X	X	X	X	X	X	X	X	X	X	X	X
	Turbidity	Field Measurement	--	X	X	X	X	X	X	X	X	X	X	X	X

Table 5
Pilot Study Sample Schedule - Post-Injection Monitoring
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Note:
1. Appendix IV constituents are 40 CFR Part 257 Appendix IV constituents for assessment monitoring, excluding radium. Total and dissolved metals were evaluated during each sampling event.

Acronyms and Abbreviations:
CFR = Code of Federal Regulations
GWPS = Groundwater Protection Standard
IC-ICP-MS = ion chromatography inductively coupled plasma mass spectroscopy
IRMS = isotope ratio mass spectroscopy
mg/L = milligram per liter
USEPA = United States Environmental Protection Agency
X = sample was successfully collected
-- = no GWPS assigned to constituent
δ2H H2O = Delta notation measurement of stable hydrogen isotope concentrations.

Table 6
Summary of Pilot Injection Performance Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Temporary Injection Well									
			INW-01									
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12	Week 23	Week 34
			8/27/2024	9/5/2024	9/12/2024	9/17/2024	10/2/2024	10/15/2024	10/29/2024	11/12/2024	1/29/2025	4/15/2025
Primary Performance Monitoring Parameters												
Total Arsenic	0.032	mg/L	< 0.01	< 0.002	< 0.01	0.00235 J	< 0.01	< 0.002	< 0.01	< 0.002	0.0021 J	< 0.01
Dissolved Arsenic	--	mg/L	< 0.002	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	0.00239 J	0.00259 J	< 0.01
Total Iron	--	mg/L	1,470	205	118	76.6	30.2	26.0	19.1	20.0	5.62	4.17
Dissolved Iron	--	mg/L	1,330	207	96.9	68.0	32.4	23.4	19.4	18.4	5.26	3.26
Sulfide	--	mg/L	9.6	11	2.8	2.7	< 1.0	< 0.83	< 0.81	1.8	5.9	1.5
Sulfate	--	mg/L	230	808	975	1,010	930	725	758	730	762	747
Deuterium (δ^2H H_2O)	--	‰	2331 ± 2.9	369 ± 0.3	193 ± 1.0	125 ± 0.9	53.0 ± 0.4	40.1 ± 0.2	30.9 ± 0.2	19.0 ± 0.4	16.3 ± 0.2	7.99 ± 0.1
Relative Deuterium	--	%	76%	12%	6.1%	3.9%	1.5%	1.1%	0.77%	0.38%	0.29%	0.02%
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring												
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.005	< 0.001	< 0.005	< 0.005	< 0.005	< 0.001	< 0.005	< 0.005
Dissolved Antimony	--	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.001	< 0.001	< 0.005
Total Barium	2	mg/L	0.394	0.637 J	0.640 J	0.539 J	0.576 J	0.531 J	0.504 J	0.510 J	0.573 J	0.581 J
Dissolved Barium	--	mg/L	0.358	0.663 J	0.605 J	0.591 J	0.546 J	0.512 J	0.542 J	0.490 J	0.566 J	0.576 J
Total Beryllium	0.021	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.001
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.0002	< 0.0002
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0015	< 0.0015	< 0.0015	< 0.0003	< 0.0015	< 0.0015
Dissolved Cadmium	--	mg/L	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0003	< 0.0003	< 0.0015
Total Chromium	0.1	mg/L	< 0.015	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015	< 0.003	< 0.015
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.015	< 0.015	< 0.003	< 0.015	< 0.015	< 0.003	< 0.003
Total Cobalt	0.036	mg/L	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003	< 0.0015
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0015	< 0.0015	< 0.0003	< 0.0015	< 0.0015	< 0.0003	< 0.0003
Fluoride	4	mg/L	1.11 J	< 0.66	< 0.66	< 0.66	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0025	< 0.0025
Dissolved Lead	--	mg/L	< 0.0005	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0025	< 0.0025
Total Lithium	0.049	mg/L	0.0180 J	0.0131 J	< 0.015	0.00988 J	0.00782 J	0.00746 J	0.00707 J	< 0.015	0.00486 J	< 0.015
Dissolved Lithium	--	mg/L	0.0186	< 0.015	0.0101 J	< 0.015	< 0.015	0.00734 J	< 0.015	< 0.015	0.00494 J	0.00476 J
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000780 J	< 0.000067	< 0.000067	< 0.000067	0.000100 J	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000770 J	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	< 0.001	0.000881 J	0.00197 J	0.00103 J	< 0.001	< 0.001	0.00119 J	0.000776 J	0.000540 J	< 0.001
Dissolved Molybdenum	--	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.00198 J	< 0.001	< 0.001	0.000500 J	0.000415 J	< 0.001
Total Selenium	0.05	mg/L	< 0.0075	0.00189 J	< 0.0075	0.00170 J	< 0.0075	0.00195 J	< 0.0075	0.00190 J	0.00159 J	< 0.0075
Dissolved Selenium	--	mg/L	< 0.0015	< 0.0075	< 0.0075	< 0.015	< 0.0075	< 0.0075	< 0.0075	0.00209 J	0.00151 J	< 0.0075
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.003	< 0.003
Dissolved Thallium	--	mg/L	< 0.0006	< 0.003	< 0.003	< 0.003	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.003

Table 6
Summary of Pilot Injection Performance Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Temporary Injection Well									
			INW-01									
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12	Week 23	Week 34
			8/27/2024	9/5/2024	9/12/2024	9/17/2024	10/2/2024	10/15/2024	10/29/2024	11/12/2024	1/29/2025	4/15/2025
40 CFR Part 257 Appendix III and Geochemical Parameters												
Bicarbonate Alkalinity as $CaCO_3$	--	mg/L	6	NA	NA	135	NA	167	NA	180	211	194
Carbonate Alkalinity as $CaCO_3$	--	mg/L	< 0.725	NA	NA	< 0.725	NA	< 0.725	NA	< 0.725	< 0.725	< 0.725
Total Alkalinity as $CaCO_3$	--	mg/L	6.00	NA	NA	135	NA	167	NA	180	211	194
Total Boron	--	mg/L	0.293	0.451	0.424	0.449	0.461	0.494	0.536	0.587	0.712	0.844
Dissolved Boron	--	mg/L	0.283	0.414	0.416	0.453	0.482	0.499	0.516	0.568	0.724	0.820
Total Calcium	--	mg/L	132	NA	NA	239	NA	225	NA	237	201	207
Dissolved Calcium	--	mg/L	128	NA	NA	257	NA	223	NA	224	203	199
Chloride	--	mg/L	3,350	5,830	5,360	5,520	5,470	5,020	5,310	5,020	5,530	6,160
Total Magnesium	--	mg/L	132	NA	NA	320	NA	359	NA	348	358	433
Dissolved Magnesium	--	mg/L	123	NA	NA	347	NA	361	NA	340	390	421
Total Manganese	--	mg/L	0.415	NA	NA	0.119	NA	0.0783	NA	0.0747	0.0511	0.0484
Dissolved Manganese	--	mg/L	0.341	NA	NA	0.131	NA	0.0733	NA	0.0720	0.0513	0.0437
Total Potassium	--	mg/L	37.7	NA	NA	88.2	NA	88.0	NA	97.1	97.3	113
Dissolved Potassium	--	mg/L	37.1	NA	NA	100	NA	87.9	NA	91.1	98.1	110
Total Sodium	--	mg/L	972	NA	NA	3,140	NA	3,300	NA	3,220	3,220	3440
Dissolved Sodium	--	mg/L	838	NA	NA	3,270	NA	3,310	NA	3,140	3,450	3,360
Total Dissolved Solids	--	mg/L	4,900	NA	NA	10,900	NA	10,600	NA	9,890	9,500	11,100
Field Parameters												
Ferrous Iron	--	mg/L	7.0	6.0	3.5	7.0	3.0	5.0	2.0	5.0	5.0	4.0
Dissolved Oxygen	--	mg/L	0.05	0.47	0.06	0.02	0.02	0.02	0.02	0.07	0.03	-0.01
Oxidation Reduction Potential	--	mV	-77.25	-65.18	-88.25	-93.91	-69.95	-120.6	-185.0	-156.6	-249.0	-309.4
pH	--	SU	5.85	6.24	6.36	6.46	6.47	6.53	6.54	6.55	6.51	6.57
Specific Conductance	--	µS/cm	10066	17042	17284	16923	17256	17462	17610	16965	16863	18159
Temperature	--	°C	28.17	25.15	25.85	28.03	26.49	26.16	23.87	25.22	23.16	25.04
Turbidity	--	NTU	22.30	2.18	63.40	40.50	9.83	8.73	4.47	0.99	0.46	0.50
Arsenic Speciation												
Arsenite	--	µg/L	≤ 0.200	NA	NA	≤ 0.200	NA	≤ 0.800	NA	≤ 0.200	≤ 0.200	0.692 J
Arsenate	--	µg/L	≤ 0.500	NA	NA	≤ 0.500	NA	≤ 2.00	NA	≤ 0.500	≤ 0.500	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	≤ 0.250	NA	≤ 1.00	NA	≤ 0.250	≤ 0.250	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	≤ 0.200	NA	≤ 0.800	NA	≤ 0.200	≤ 0.200	≤ 0.200
Unknown Arsenic Species	--	µg/L	≤ 0.250	NA	NA	≤ 0.250	NA	1.12 J	NA	≤ 0.250	≤ 0.250	0.434 J

Table 6
Summary of Pilot Injection Performance Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Temporary Corrective Action Dose Response Piezometer									
			DR-03									
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12	Week 23	Week 34
			8/27/2024	9/5/2024	9/12/2024	9/17/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024	1/29/2025	4/15/2025
Primary Performance Monitoring Parameters												
Total Arsenic	0.032	mg/L	< 0.01	0.00538 J	0.00358 J	0.00371 J	0.00344 J	0.00254 J	< 0.01	< 0.002	0.00256 J	0.00523 J
Dissolved Arsenic	--	mg/L	0.00450 J	< 0.01	0.00357 J	< 0.01	0.00243 J	0.00221 J	< 0.01	< 0.002	0.00241 J	0.00453 J
Total Iron	--	mg/L	1,210	403	212	165	85.2	47.9	34.6	32.6	12.7	11.5
Dissolved Iron	--	mg/L	1,080	437	215	155	89.7	47.1	31.9	31.1	9.71	7.94
Sulfide	--	mg/L	11	12	11	12	< 1.0	4.2	3.1	9.4	13	5.8
Sulfate	--	mg/L	111	249	324	338	1,170	247	258	261	297	259
Deuterium (δ^2H H_2O)	--	‰	2647 ± 27.6	1053 ± 4.1	565 ± 8.7	421 ± 0.5	170 ± 0.5	84.5 ± 0.3	55.6 ± 0.4	41.3 ± 0.3	25.3 ± 0.3	20.0 ± 0.5
Relative Deuterium	--	%	87%	34%	18%	14%	5.4%	2.5%	1.6%	1.1%	0.59%	0.41%
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring												
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001
Dissolved Antimony	--	mg/L	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Total Barium	2	mg/L	0.0590	0.0420 J	0.0386 J	0.0345 J	0.0326 J	0.0283 J	0.0270 J	0.0248 J	0.0288 J	0.0383 J
Dissolved Barium	--	mg/L	0.0522	0.0453 J	0.0379 J	0.0340 J	0.0312 J	0.0283 J	0.0272 J	0.0251 J	0.0288 J	0.0364 J
Total Beryllium	0.021	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.0002
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.0002
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003
Dissolved Cadmium	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Total Chromium	0.1	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015	< 0.003	< 0.003
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015	< 0.003	< 0.003
Total Cobalt	0.036	mg/L	0.000315 J	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003	< 0.0003
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003	< 0.0003
Fluoride	4	mg/L	1.09	1.42 J	1.08	1.03	1.92	0.799 J	0.689 J	0.809 J	0.750 J	0.805 J
Total Lead	0.015	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Total Lithium	0.049	mg/L	0.0315	0.0482	0.0467	0.0472	0.0456	0.0445	0.0531	0.0503	0.0442	0.0436
Dissolved Lithium	--	mg/L	0.0364	0.0482 J	0.0466	0.0479	0.0437	0.0431	0.0502	0.0500	0.0445	0.0408
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000760 J	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000780 J	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	< 0.001	0.00111 J	0.000936 J	0.000959 J	0.000860 J	0.000716 J	< 0.001	0.000597 J	0.000445 J	0.000348 J
Dissolved Molybdenum	--	mg/L	0.000678 J	< 0.001	0.000821 J	0.000834 J	0.000675 J	0.000570 J	0.000547 J	0.000500 J	0.000343 J	0.000270 J
Total Selenium	0.05	mg/L	< 0.0075	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0075	< 0.0015	< 0.0015	< 0.0015
Dissolved Selenium	--	mg/L	< 0.0015	< 0.0075	< 0.0015	< 0.0075	< 0.0015	< 0.0015	< 0.0075	< 0.0015	< 0.0015	< 0.0015
Total Thallium	0.002	mg/L	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006

Table 6
Summary of Pilot Injection Performance Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Temporary Corrective Action Dose Response Piezometer									
			DR-03									
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12	Week 23	Week 34
			8/27/2024	9/5/2024	9/12/2024	9/17/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024	1/29/2025	4/15/2025
40 CFR Part 257 Appendix III and Geochemical Parameters												
Bicarbonate Alkalinity as $CaCO_3$	--	mg/L	28	NA	NA	180	NA	215	NA	268	285	269
Carbonate Alkalinity as $CaCO_3$	--	mg/L	< 0.725	NA	NA	< 0.725	NA	< 0.725	NA	< 0.725	< 0.725	< 0.725
Total Alkalinity as $CaCO_3$	--	mg/L	28.0	NA	NA	180	NA	215	NA	268	285	269
Total Boron	--	mg/L	0.354	0.675	0.744	0.844	0.843	0.958	0.987	0.934	1.02	0.955
Dissolved Boron	--	mg/L	0.314	0.687	0.763	0.861	0.911	0.884	0.951	0.948	1.10	0.925
Total Calcium	--	mg/L	153	NA	NA	89.1	NA	73.7	NA	78.4	83.4	96.1
Dissolved Calcium	--	mg/L	149	NA	NA	96.4	NA	68.9	NA	78.8	78.5	93.4
Chloride	--	mg/L	2,340	2,290	2,110	2,070	2,170	1,890	2,010	2,150	2,180	2,450
Total Magnesium	--	mg/L	99.3	NA	NA	101	NA	111	NA	122	138	157
Dissolved Magnesium	--	mg/L	93.9	NA	NA	115	NA	104	NA	125	130	154
Total Manganese	--	mg/L	1.53	NA	NA	0.660	NA	0.317	NA	0.272	0.133	0.117
Dissolved Manganese	--	mg/L	1.46	NA	NA	0.679	NA	0.321	NA	0.270	0.130	0.110
Total Potassium	--	mg/L	26.8	NA	NA	45.6	NA	48.6	NA	57.8	61.5	59.2
Dissolved Potassium	--	mg/L	27.6	NA	NA	52.8	NA	46.8	NA	58.0	59.5	58.1
Total Sodium	--	mg/L	334	NA	NA	1,130	NA	1,340	NA	1,430	1,470	1,480
Dissolved Sodium	--	mg/L	298	NA	NA	1,200	NA	1,230	NA	1,440	1,410	1,460
Total Dissolved Solids	--	mg/L	3,080	NA	NA	4,350	NA	4,180	NA	4,070	5,070	4,780
Field Parameters												
Ferrous Iron	--	mg/L	7.0	7.0	7.0	6.0	7.0	3.0	3.0	3.0	5.5	2.5
Dissolved Oxygen	--	mg/L	0.04	0.35	0.02	0.00	-0.02	-0.03	-0.01	-0.02	0.01	-0.04
Oxidation Reduction Potential	--	mV	-145.9	-136.8	-163.2	-174.9	-373.2	-364.6	-471.2	-487.2	-471.5	-528.3
pH	--	SU	6.29	6.48	6.73	6.81	6.87	6.92	6.90	6.98	6.94	6.93
Specific Conductance	--	µS/cm	6918.9	7124.3	7259.5	7107.6	7374.2	7464.5	7596.3	7503.4	7436.7	8422.8
Temperature	--	°C	26.91	24.42	25.09	24.13	26.03	24.58	22.79	24.59	22.35	22.66
Turbidity	--	NTU	11.72	8.09	7.83	4.66	3.49	1.96	2.58	0.74	0.06	1.19
Arsenic Speciation												
Arsenite	--	µg/L	0.289 J	NA	NA	0.320 J	NA	≤ 0.800	NA	0.364 J	0.453	0.396 J
Arsenate	--	µg/L	3.77	NA	NA	1.90	NA	≤ 2.00	NA	≤ 0.500	≤ 0.500	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	≤ 0.250	NA	≤ 1.00	NA	≤ 0.250	≤ 0.250	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	≤ 0.200	NA	≤ 0.800	NA	≤ 0.200	≤ 0.200	≤ 0.200
Unknown Arsenic Species	--	µg/L	≤ 0.250	NA	NA	≤ 0.250	NA	≤ 1.00	NA	≤ 0.250	≤ 0.250	0.794 J

Table 6
Summary of Pilot Injection Performance Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Temporary Corrective Action Dose Response Piezometer									
			PT-03									
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12	Week 23	Week 34
			8/27/2024	9/5/2024	9/12/2024	9/17/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024	1/30/2025	4/16/2025
Primary Performance Monitoring Parameters												
Total Arsenic	0.032	mg/L	0.0226 J	0.0105	0.00507 J	0.0109	0.00852 J	0.0108	0.0163 J	0.0106	0.0237	0.0450
Dissolved Arsenic	--	mg/L	0.00747	< 0.01	0.00315 J	< 0.01	0.00855 J	0.0107	0.0154 J	0.00943 J	0.0212	0.0510
Total Iron	--	mg/L	128	6.29	18.1	3.10	0.860	0.492	0.729	0.702	0.265	0.0561 J
Dissolved Iron	--	mg/L	127	3.40	8.26	2.05	0.518	0.354	0.381	0.453 J	0.0991 J	0.0450 J
Sulfide	--	mg/L	9.9	12	13	16	31	26	16	18	25	21 F1
Sulfate	--	mg/L	464	546	379	505	448	480	437	583	521	498
Deuterium (δ^2H H_2O)	--	‰	399 ± 1.5	29.2 ± 0.3	42.3 ± 0.4	13.8 ± 0.3	14.7 ± 0.5	9.22 ± 0.5	7.12 ± 0.4	6.50 ± 0.5	7.78 ± 0.2	4.76 ± 0.3
Relative Deuterium	--	%	13%	0.78%	1.2%	0.28%	0.31%	0.13%	0.06%	0.04%	0.08%	-0.02%
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring												
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.005
Dissolved Antimony	--	mg/L	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.005
Total Barium	2	mg/L	0.344	0.389 J	0.171 J	0.344 J	0.247 J	0.275 J	0.238 J	0.312 J	0.310 J	0.275 J
Dissolved Barium	--	mg/L	0.319	0.430 J	0.170 J	0.358 J	0.255 J	0.308 J	0.225 J	0.311 J	0.309 J	0.275 J
Total Beryllium	0.021	mg/L	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.0002
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.0002
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0015
Dissolved Cadmium	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Total Chromium	0.1	mg/L	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015	< 0.003	< 0.003
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015	< 0.003	< 0.003
Total Cobalt	0.036	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003	< 0.0003
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003	< 0.0003
Fluoride	4	mg/L	0.400 HJ	< 0.66	0.812 J	0.398 J	0.418 J	0.423 J	0.984 J	< 0.33	< 0.33	0.506 J
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0005	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0025	< 0.0005
Total Lithium	0.049	mg/L	0.0305 J	0.0282 J	0.0395 J	0.0285 J	0.0332 J	0.0317 J	0.0396 J	0.0309 J	0.0404	0.0398 J
Dissolved Lithium	--	mg/L	0.0333	0.0291 J	0.0374 J	0.0296 J	0.0320 J	0.0330 J	0.0376 J	0.0320 J	0.0400	0.0383 J
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000840 J	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000810 J	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	0.00159 J	0.000517 J	< 0.001	0.000453 J	0.000462 J	0.000382 J	< 0.001	0.000473 J	0.000773 J	< 0.001
Dissolved Molybdenum	--	mg/L	0.00148	< 0.001	0.000247 J	< 0.001	0.000284 J	< 0.001	0.000280 J	0.000320 J	0.000466 J	0.00113 J
Total Selenium	0.05	mg/L	< 0.0075	0.00195 J	0.00183 J	0.00158 J	0.00150 J	< 0.0015	< 0.0075	< 0.0015	< 0.0015	< 0.0075
Dissolved Selenium	--	mg/L	< 0.0015	< 0.0075	0.00167 J	< 0.0075	0.00159 J	0.00186 J	< 0.0075	0.00181 J	0.00150 J	< 0.0075
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.0006	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006

Table 6
Summary of Pilot Injection Performance Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Temporary Corrective Action Dose Response Piezometer									
			PT-03									
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12	Week 23	Week 34
			8/27/2024	9/5/2024	9/12/2024	9/17/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024	1/30/2025	4/16/2025
40 CFR Part 257 Appendix III and Geochemical Parameters												
Bicarbonate Alkalinity as $CaCO_3$	--	mg/L	145	NA	NA	210	NA	221	NA	202	224	233
Carbonate Alkalinity as $CaCO_3$	--	mg/L	< 0.725	NA	NA	< 0.725	NA	< 0.725	NA	< 0.725	< 0.725	< 0.725
Total Alkalinity as $CaCO_3$	--	mg/L	145	NA	NA	210	NA	221	NA	202	224	233
Total Boron	--	mg/L	0.586	0.634	0.721	0.641	0.679	0.652	0.719	0.633	0.773	0.775
Dissolved Boron	--	mg/L	0.573	0.647	0.701	0.637	0.690	0.695	0.703	0.660	0.685	0.773
Total Calcium	--	mg/L	164	NA	NA	160	NA	146	NA	177	182	168
Dissolved Calcium	--	mg/L	165	NA	NA	173	NA	155	NA	183	170	170
Chloride	--	mg/L	4,030	4,530	3,180	3,870	3,460	3,650	3,450	4,370	4,430	4,570
Total Magnesium	--	mg/L	216	NA	NA	229	NA	231	NA	277	341	338
Dissolved Magnesium	--	mg/L	209	NA	NA	258	NA	248	NA	309	329	334
Total Manganese	--	mg/L	0.379	NA	NA	0.0930	NA	0.0656	NA	0.0931	0.113	0.112
Dissolved Manganese	--	mg/L	0.425	NA	NA	0.0932	NA	0.0734	NA	0.0959	0.112	0.111
Total Potassium	--	mg/L	66.1	NA	NA	72.1	NA	72.4	NA	78.9	91.8	93.7
Dissolved Potassium	--	mg/L	65.4	NA	NA	84.0	NA	76.3	NA	82.1	86.9	93.9
Total Sodium	--	mg/L	2,270	NA	NA	2,150	NA	2,090	NA	2,330	2,550	2,400
Dissolved Sodium	--	mg/L	1,850	NA	NA	2,320	NA	2,220	NA	2,570	2,490	2,420
Total Dissolved Solids	--	mg/L	6,820	NA	NA	7,530	NA	6,800	NA	6,420	9,100	8,130
Field Parameters												
Ferrous Iron	--	mg/L	7.0	4.0	2.0	2.0	1.5	0.5	1.0	0.5	0.5	0.0
Dissolved Oxygen	--	mg/L	0.00	0.12	-0.02	0.00	0.00	0.00	0.02	-0.01	0.04	0.01
Oxidation Reduction Potential	--	mV	-347.4	-193.4	-352.7	-339.3	-293.6	-333.1	-325.7	-330.1	-234.2	-332.4
pH	--	SU	6.39	6.65	6.78	6.62	6.76	6.57	6.84	6.55	6.57	6.76
Specific Conductance	--	µS/cm	12049	14048	9325.4	12430	11598	13564	11673	13418	14318	14915
Temperature	--	°C	26.51	25.53	25.21	25.98	25.60	26.11	24.36	25.50	21.93	21.73
Turbidity	--	NTU	4.36	4.79	6.25	3.55	0.53	0.83	2.11	0.75	0.29	0.13
Arsenic Speciation												
Arsenite	--	µg/L	3.59	NA	NA	0.414 J	NA	≤ 0.800	NA	0.385 J	≤ 0.800	1.07
Arsenate	--	µg/L	3.48	NA	NA	≤ 0.500	NA	≤ 2.00	NA	≤ 0.500	≤ 2.00	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	≤ 0.250	NA	≤ 1.00	NA	≤ 0.250	≤ 1.00	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	≤ 0.200	NA	≤ 0.800	NA	≤ 0.200	≤ 0.800	≤ 0.200
Unknown Arsenic Species	--	µg/L	0.441 J	NA	NA	5.46	NA	9.19	NA	13.3	29.6	60.9

Table 6
Summary of Pilot Injection Performance Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Temporary Corrective Action Dose Response Piezometer									
			DR-02									
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12	Week 23	Week 34
			8/27/2024	9/5/2024	9/12/2024	9/18/2024	10/1/2024	10/16/2024	10/29/2024	11/13/2024	1/30/2025	4/16/2025
Primary Performance Monitoring Parameters												
Total Arsenic	0.032	mg/L	0.151	0.0659	0.0449	0.0652	0.0571	0.0576	0.0508	0.0556	0.0912	0.104
Dissolved Arsenic	--	mg/L	0.0571	0.0616	0.0470	0.0652	0.0521	0.0604	0.0676	0.0568	0.0938	0.120
Total Iron	--	mg/L	5.47	1.26	0.287	1.32	0.213	0.477	0.108	0.324 J	0.0809 J	0.495
Dissolved Iron	--	mg/L	0.0707 J	< 0.165	0.0586 J	0.142	0.0369 J	0.182	0.0459 J	< 0.165	< 0.033	0.0724 J
Sulfide	--	mg/L	35	30	33	8.5	64	27	28	33	39	37
Sulfate	--	mg/L	310	325	317	329	324	330	343	383	397	360
Deuterium (δ^2H H_2O)	--	‰	8.78 ± 0.2	6.56 ± 0.1	2.35 ± 0.2	6.43 ± 0.2	5.98 ± 0.2	5.80 ± 0.4	6.53 ± 0.4	7.37 ± 0.1	7.05 ± 0.1	6.06 ± 0.2
Relative Deuterium	--	%	0.11%	0.04%	-0.10%	0.03%	0.02%	0.01%	0.03%	0.06%	0.05%	0.02%
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring												
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001
Dissolved Antimony	--	mg/L	< 0.005	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005
Total Barium	2	mg/L	0.0813	0.0675 J	0.0537 J	0.0692 J	0.0652 J	0.0734 J	0.0571 J	0.0718 J	0.0940 J	0.0807 J
Dissolved Barium	--	mg/L	0.0758	0.0713 J	0.0518 J	0.0697 J	0.0714 J	0.0720 J	0.0543 J	0.0725 J	0.0971 J	0.0854 J
Total Beryllium	0.021	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.0002
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.0002
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003
Dissolved Cadmium	--	mg/L	< 0.0015	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Total Chromium	0.1	mg/L	0.00407 J	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015	< 0.003	< 0.003
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015	< 0.003	< 0.003
Total Cobalt	0.036	mg/L	0.000300 J	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003	< 0.0003
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003	< 0.0003
Fluoride	4	mg/L	0.587 HJ	0.918 J	0.870 J	0.618 J	0.613 J	0.587 J	2.64	0.588 J	0.558 J	0.657 J
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Total Lithium	0.049	mg/L	0.0428	0.0478	0.0440	0.0489	0.0478	0.0486	0.0532	0.0567	0.0528	0.0483
Dissolved Lithium	--	mg/L	0.0527	0.0536	0.0478	0.0503	0.0468	0.0490	0.0528	0.0570	0.0549	0.0502
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000750 J	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000790 J	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	0.00244 J	0.00121 J	0.000840 J	0.00110 J	0.00104 J	0.000956 J	< 0.001	0.00105 J	0.00114 J	0.000880 J
Dissolved Molybdenum	--	mg/L	< 0.001	< 0.001	0.000459 J	0.000557 J	0.000595 J	0.000624 J	0.000596 J	0.000571 J	0.000741 J	< 0.001
Total Selenium	0.05	mg/L	< 0.0075	0.00162 J	0.00193 J	< 0.0015	0.00887 J	< 0.0015	< 0.0075	< 0.0015	< 0.0015	< 0.0075
Dissolved Selenium	--	mg/L	< 0.0015	< 0.0075	0.00170 J	< 0.0075	0.00163 J	< 0.0015	< 0.0075	< 0.0015	< 0.0015	< 0.0075
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006

Table 6
Summary of Pilot Injection Performance Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Temporary Corrective Action Dose Response Piezometer									
			DR-02									
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12	Week 23	Week 34
			8/27/2024	9/5/2024	9/12/2024	9/18/2024	10/1/2024	10/16/2024	10/29/2024	11/13/2024	1/30/2025	4/16/2025
40 CFR Part 257 Appendix III and Geochemical Parameters												
Bicarbonate Alkalinity as $CaCO_3$	--	mg/L	321	NA	NA	306	NA	303	NA	301	312	337
Carbonate Alkalinity as $CaCO_3$	--	mg/L	< 0.725	NA	NA	< 0.725	NA	< 0.725	NA	< 0.725	< 0.725	< 0.725
Total Alkalinity as $CaCO_3$	--	mg/L	321	NA	NA	306	NA	303	NA	301	312	337
Total Boron	--	mg/L	0.777	0.838	0.825	0.898	0.840	0.843	0.924	0.923	0.902	0.804
Dissolved Boron	--	mg/L	0.811	0.950	0.852	0.910	0.870	0.866	0.897	0.907	0.880	0.832
Total Calcium	--	mg/L	100	NA	NA	105	NA	114	NA	130	148	145
Dissolved Calcium	--	mg/L	99.8	NA	NA	113	NA	114	NA	132	145	149
Chloride	--	mg/L	2,690	2,860	2,590	2,690	2,730	2,680	2,720	3,140	3,340	3,560
Total Magnesium	--	mg/L	170	NA	NA	173	NA	192	NA	225	252	261
Dissolved Magnesium	--	mg/L	167	NA	NA	197	NA	193	NA	236	249	265
Total Manganese	--	mg/L	0.105	NA	NA	0.0951	NA	0.0943	NA	0.115	0.120	0.125
Dissolved Manganese	--	mg/L	0.089	NA	NA	0.0925	NA	0.0955	NA	0.114	0.123	0.128
Total Potassium	--	mg/L	65.5	NA	NA	67.3	NA	69.6	NA	77.2	81.2	76.8
Dissolved Potassium	--	mg/L	65.1	NA	NA	77.1	NA	70.0	NA	78.5	79.3	78.5
Total Sodium	--	mg/L	1,730	NA	NA	1,640	NA	1,710	NA	1,800	1,950	2,010
Dissolved Sodium	--	mg/L	1,510	NA	NA	1,640	NA	1,670	NA	1,900	1,910	2,070
Total Dissolved Solids	--	mg/L	4,570	NA	NA	5,730	NA	5,510	NA	5,780	5,560	6,310
Field Parameters												
Ferrous Iron	--	mg/L	7.0	0.5	1.0	1.0	0.5	1.0	1.0	0.5	0.0	0.0
Dissolved Oxygen	--	mg/L	0.03	0.03	0.02	0.03	0.04	0.01	0.04	0.03	0.00	0.00
Oxidation Reduction Potential	--	mV	-369.5	-366.9	-369.6	-350.0	-340.3	-368.9	-361.1	-297.5	-291.1	-367.0
pH	--	SU	7.33	7.31	7.38	7.33	7.32	7.29	7.36	7.20	7.28	7.27
Specific Conductance	--	µS/cm	9125.2	9364.8	9080.6	9559.5	9651.0	9941.7	9616.2	10162	11298	12178
Temperature	--	°C	25.32	24.68	24.67	24.19	24.68	22.97	23.96	25.00	22.60	21.81
Turbidity	--	NTU	3.19	2.02	2.35	3.55	1.10	1.23	1.99	0.72	0.16	0.51
Arsenic Speciation												
Arsenite	--	µg/L	0.658 J	NA	NA	0.604 J	NA	≤ 0.800	NA	0.658 J	≤ 0.800	1.61
Arsenate	--	µg/L	≤ 0.500	NA	NA	≤ 0.500	NA	≤ 2.00	NA	≤ 0.500	≤ 2.00	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	≤ 0.250	NA	≤ 1.00	NA	≤ 0.250	≤ 1.00	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	≤ 0.200	NA	≤ 0.800	NA	≤ 0.200	≤ 0.800	≤ 0.200
Unknown Arsenic Species	--	µg/L	89.6	NA	NA	71.1	NA	79.5	NA	80.9	102	136

Table 6
Summary of Pilot Injection Performance Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Temporary Corrective Action Performance Monitoring Piezometer									
			PT-01									
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12	Week 23	Week 34
			8/28/2024	9/5/2024	9/12/2024	9/17/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024	1/29/2025	4/15/2025
Primary Performance Monitoring Parameters												
Total Arsenic	0.032	mg/L	0.0131 J	0.00878 J	0.0144	0.00991 J	0.0130 J	0.0109	0.0166 J	0.0115	0.0166	0.0215 J
Dissolved Arsenic	--	mg/L	0.0141 J	0.0105 J	0.0117	< 0.01	0.0108	0.00983 J	0.0177 J	0.00987 J	0.0149	0.0215 J
Total Iron	--	mg/L	0.446 J	0.118	0.233	0.320	0.156	0.106	0.0907 J	0.218 J	0.0499 J	0.0482 J
Dissolved Iron	--	mg/L	0.106	< 0.165	0.0789 J	0.0711 J	0.0929 J	0.0808 J	< 0.165	< 0.165	0.0343 J	0.0403 J
Sulfide	--	mg/L	23	20	24	21	36	21	15	20	22	18
Sulfate	--	mg/L	526	542	525	548	523	533	517	573	554	473
Deuterium (δ^2H H_2O)	--	‰	10.6 ± 0.5	5.35 ± 0.2	8.77 ± 0.4	6.75 ± 0.3	6.14 ± 0.4	4.80 ± 0.3	5.62 ± 0.3	6.54 ± 0.1	6.37 ± 0.1	3.14 ± 0.2
Relative Deuterium	--	%	0.19%	0.02%	0.13%	0.07%	0.05%	0.00%	0.03%	0.06%	0.06%	-0.05%
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring												
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005
Dissolved Antimony	--	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.001	< 0.005	< 0.005	< 0.001	< 0.001	< 0.005
Total Barium	2	mg/L	0.687	0.693 J	0.621 J	0.684 J	0.633 J	0.629 J	0.573 J	0.579 J	0.558 J	0.482 J
Dissolved Barium	--	mg/L	0.661	0.721 J	0.608 J	0.726 J	0.659 J	0.640 J	0.644 J	0.588 J	0.519 J	0.505 J
Total Beryllium	0.021	mg/L	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.0002
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.001	< 0.0002	< 0.0002
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Dissolved Cadmium	--	mg/L	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0003	< 0.0015	< 0.0015	< 0.0003	< 0.0003	< 0.0015
Total Chromium	0.1	mg/L	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015	< 0.003	< 0.003
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.015	< 0.003	< 0.003	< 0.015	< 0.015	< 0.003	< 0.003
Total Cobalt	0.036	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003	< 0.0003
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0015	< 0.0015	< 0.0003	< 0.0003
Fluoride	4	mg/L	0.347 HJ	< 0.66	< 0.66	0.395 J	0.390 J	0.389 J	< 0.33	0.373 J	< 0.33	0.494 J
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0025	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0025	< 0.0005	< 0.0025	< 0.0005
Total Lithium	0.049	mg/L	0.0310 J	0.0293 J	0.0345 J	0.0299 J	0.0318 J	0.0330 J	0.0374 J	0.0374 J	0.0385 J	0.0332 J
Dissolved Lithium	--	mg/L	0.0381	0.0322 J	0.0344 J	0.0313 J	0.0321 J	0.0338 J	0.0402 J	0.0363 J	0.0377 J	0.0348 J
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000770 J	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000770 J	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	< 0.001	0.000676 J	< 0.001	0.000643 J	0.0006770 J	0.000568 J	0.000620 J	0.000632 J	0.000651 J	< 0.001
Dissolved Molybdenum	--	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.000412 J	< 0.001	< 0.001	0.000366 J	0.000378 J	< 0.001
Total Selenium	0.05	mg/L	< 0.0075	0.00199 J	0.00230 J	< 0.0015	< 0.0075	0.00157 J	< 0.0075	< 0.0015	< 0.0015	< 0.0075
Dissolved Selenium	--	mg/L	< 0.0075	< 0.0075	0.00224 J	< 0.0075	0.00162 J	0.00165 J	< 0.0075	0.00176 J	0.00170 J	< 0.0075
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.003	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.0006

Table 6
Summary of Pilot Injection Performance Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Temporary Corrective Action Performance Monitoring Piezometer									
			PT-01									
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12	Week 23	Week 34
			8/28/2024	9/5/2024	9/12/2024	9/17/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024	1/29/2025	4/15/2025
40 CFR Part 257 Appendix III and Geochemical Parameters												
Bicarbonate Alkalinity as $CaCO_3$	--	mg/L	231	NA	NA	229	NA	232	NA	236	266	304
Carbonate Alkalinity as $CaCO_3$	--	mg/L	< 0.725	NA	NA	< 0.725	NA	< 0.725	NA	< 0.725	< 0.725	< 0.725
Total Alkalinity as $CaCO_3$	--	mg/L	231	NA	NA	229	NA	232	NA	236	266	304
Total Boron	--	mg/L	0.656	0.751	0.723	0.726	0.700	0.739	0.736	0.708	0.802	0.854
Dissolved Boron	--	mg/L	0.759	0.758	0.737	0.719	0.777	0.701	0.753	0.739	0.709	0.854
Total Calcium	--	mg/L	176	NA	NA	183	NA	184	NA	189	188	168
Dissolved Calcium	--	mg/L	180	NA	NA	192	NA	180	NA	186	172	173
Chloride	--	mg/L	4,360	4,550	4,090	4,270	4,100	4,070	4,160	4,550	4,580	4,610
Total Magnesium	--	mg/L	283	NA	NA	283	NA	296	NA	308	325	311
Dissolved Magnesium	--	mg/L	274	NA	NA	303	NA	316	NA	308	327	323
Total Manganese	--	mg/L	0.279	NA	NA	0.279	NA	0.258	NA	0.307	0.299	0.251
Dissolved Manganese	--	mg/L	0.274	NA	NA	0.310	NA	0.263	NA	0.308	0.294	0.262
Total Potassium	--	mg/L	82.3	NA	NA	85.9	NA	91.9	NA	92.1	88.8	86.1
Dissolved Potassium	--	mg/L	88.1	NA	NA	99.0	NA	89.3	NA	92.2	81.6	88.3
Total Sodium	--	mg/L	2,340	NA	NA	2,270	NA	2,440	NA	2,390	2,560	2,470
Dissolved Sodium	--	mg/L	2,140	NA	NA	2,370	NA	2,420	NA	2,380	2,600	2,630
Total Dissolved Solids	--	mg/L	8,320	NA	NA	8,460	NA	7,970	NA	7,350	8,510	8,390
Field Parameters												
Ferrous Iron	--	mg/L	1.0	0.5	0.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0
Dissolved Oxygen	--	mg/L	0.05	0.07	0.04	0.02	0.01	0.04	0.03	0.01	0.06	0.05
Oxidation Reduction Potential	--	mV	-339.6	-316.4	-291.3	-339.1	-308.0	-187.6	-331.7	-300.1	-212.4	-183.5
pH	--	SU	6.74	6.80	6.87	6.80	6.79	6.76	6.83	6.79	6.64	6.91
Specific Conductance	--	µS/cm	14103	12220	12904	13974	13842	13991	13763	14562	15005	14787
Temperature	--	°C	26.19	24.13	24.18	24.31	25.68	23.41	24.45	25.90	21.04	22.64
Turbidity	--	NTU	1.10	0.92	1.01	0.70	0.66	0.40	0.12	0.29	0.50	0.30
Arsenic Speciation												
Arsenite	--	µg/L	≤ 0.200	NA	NA	NA	NA	≤ 0.800	NA	≤ 0.200	≤ 0.800	0.706 J
Arsenate	--	µg/L	≤ 0.500	NA	NA	NA	NA	≤ 2.00	NA	≤ 0.500	≤ 2.00	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	NA	NA	≤ 1.00	NA	≤ 0.250	≤ 1.00	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	NA	NA	≤ 0.800	NA	≤ 0.200	≤ 0.800	≤ 0.200
Unknown Arsenic Species	--	µg/L	13.4	NA	NA	NA	NA	13.2	NA	14.4	17.4	27.2

Table 6
Summary of Pilot Injection Performance Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Temporary Corrective Action Performance Monitoring Piezometer									
			PT-02									
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12	Week 23	Week 34
			8/28/2024	9/5/2024	9/12/2024	9/17/2024	10/2/2024	10/15/2024	10/29/2024	11/13/2024	1/30/2025	4/16/2025
Primary Performance Monitoring Parameters												
Total Arsenic	0.032	mg/L	0.0101 J	0.00368 J	0.0231	0.0120	0.0292	0.00730 J	0.0281	0.00446 J	0.00761 J	0.0146 J
Dissolved Arsenic	--	mg/L	0.0107 J	< 0.01	0.0219	0.011 J	0.0279	0.00677 J	0.0240 J	0.00409 J	0.00683 J	0.0153 J
Total Iron	--	mg/L	3.11	3.70	1.24	3.62	0.909	2.67	2.17	2.04	2.18	3.80
Dissolved Iron	--	mg/L	2.59	4.22	1.16	3.50	0.763	2.74	2.20	1.95	1.88	4.02
Sulfide	--	mg/L	18	13	25	17	35	15	13	13	12	5.4
Sulfate	--	mg/L	499	538	430	513	438	512	453	547	568	590
Deuterium (δ^2H H_2O)	--	‰	1.13 ± 0.4	3.57 ± 0.2	7.70 ± 0.2	5.00 ± 0.3	4.76 ± 0.3	3.62 ± 0.2	5.29 ± 0.2	4.36 ± 0.4	4.83 ± 0.1	2.28 ± 0.4
Relative Deuterium	--	%	-0.14%	-0.06%	0.07%	-0.01%	-0.02%	-0.06%	0.00%	-0.03%	-0.02%	-0.10%
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring												
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005
Dissolved Antimony	--	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.001	< 0.005	< 0.005	< 0.001	< 0.001	< 0.005
Total Barium	2	mg/L	0.582	0.660 J	0.496 J	0.578 J	0.486 J	0.597 J	0.482 J	0.533 J	0.578 J	0.581 J
Dissolved Barium	--	mg/L	0.585	0.711 J	0.477 J	0.621 J	0.485 J	0.609 J	0.539 J	0.563 J	0.568 J	0.646 J
Total Beryllium	0.021	mg/L	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.0002
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.001	< 0.0002	< 0.0002
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Dissolved Cadmium	--	mg/L	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0003	< 0.0015	< 0.0015	< 0.0003	< 0.0003	< 0.0015
Total Chromium	0.1	mg/L	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015	< 0.003	< 0.003
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015	< 0.015	< 0.003	< 0.003
Total Cobalt	0.036	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003	< 0.0003
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0015	< 0.0003	< 0.0003
Fluoride	4	mg/L	< 0.33 H	< 0.66	< 0.66	< 0.33	0.400 J	< 0.33	1.55	< 0.33	< 0.33	< 0.33
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0025	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005
Total Lithium	0.049	mg/L	0.0210 J	0.0159 J	0.0290 J	0.0195 J	0.0239 J	0.0175 J	0.0265 J	0.0179 J	0.0204 J	0.0231 J
Dissolved Lithium	--	mg/L	0.0253	0.0177 J	0.0272 J	0.0197 J	0.0253 J	0.0194 J	0.0234 J	0.0176 J	0.0203 J	0.0237 J
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000790 J	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000770 J	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	< 0.001	0.000686 J	< 0.001	0.000804 J	0.000810 J	0.000794 J	0.000863 J	0.000742 J	0.000655 J	< 0.001
Dissolved Molybdenum	--	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.000483 J	< 0.001	< 0.001	0.000543 J	0.000387 J	< 0.001
Total Selenium	0.05	mg/L	< 0.0075	0.00207 J	0.00220 J	0.00209 J	0.00159 J	0.00174 J	< 0.0075	0.00184 J	0.00154 J	< 0.0075
Dissolved Selenium	--	mg/L	< 0.0075	< 0.0075	0.00260 J	< 0.0075	0.00183 J	0.00198 J	< 0.0075	0.00181 J	< 0.0015	< 0.0075
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.003	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.0006

Table 6
Summary of Pilot Injection Performance Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Temporary Corrective Action Performance Monitoring Piezometer									
			PT-02									
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12	Week 23	Week 34
			8/28/2024	9/5/2024	9/12/2024	9/17/2024	10/2/2024	10/15/2024	10/29/2024	11/13/2024	1/30/2025	4/16/2025
40 CFR Part 257 Appendix III and Geochemical Parameters												
Bicarbonate Alkalinity as $CaCO_3$	--	mg/L	208	NA	NA	209	NA	201	NA	199	218	220
Carbonate Alkalinity as $CaCO_3$	--	mg/L	< 0.725	NA	NA	< 0.725	NA	< 0.725	NA	< 0.725	< 0.725	< 0.725
Total Alkalinity as $CaCO_3$	--	mg/L	208	NA	NA	209	NA	201	NA	199	218	220
Total Boron	--	mg/L	0.554	0.549	0.669	0.582	0.606	0.571	0.636	0.538	0.559	0.693
Dissolved Boron	--	mg/L	0.589	0.609	0.618	0.597	0.673	0.542	0.630	0.551	0.526	0.735
Total Calcium	--	mg/L	167	NA	NA	169	NA	179	NA	185	195	196
Dissolved Calcium	--	mg/L	171	NA	NA	181	NA	175	NA	188	180	204
Chloride	--	mg/L	4,090	4,450	3,660	3,890	3,640	4,060	3,780	4,380	4,700	4,950
Total Magnesium	--	mg/L	245	NA	NA	248	NA	273	NA	286	312	361
Dissolved Magnesium	--	mg/L	254	NA	NA	275	NA	283	NA	291	314	373
Total Manganese	--	mg/L	0.248	NA	NA	0.248	NA	0.224	NA	0.258	0.230	0.221
Dissolved Manganese	--	mg/L	0.261	NA	NA	0.264	NA	0.233	NA	0.261	0.222	0.227
Total Potassium	--	mg/L	71.3	NA	NA	73.2	NA	74.8	NA	75.0	77.3	92.7
Dissolved Potassium	--	mg/L	73.8	NA	NA	83.2	NA	72.4	NA	75.7	73.8	95.7
Total Sodium	--	mg/L	2,380	NA	NA	2,100	NA	2,200	NA	2,340	2,550	2,750
Dissolved Sodium	--	mg/L	2,070	NA	NA	2,240	NA	2,240	NA	2,360	2,550	2,880
Total Dissolved Solids	--	mg/L	6,620	NA	NA	8,000	NA	7,590	NA	7,410	10,700	9,180
Field Parameters												
Ferrous Iron	--	mg/L	2.5	1.0	1.5	1.5	1.5	1.5	1.5	2.5	1.5	3.0
Dissolved Oxygen	--	mg/L	0.03	0.05	0.02	0.01	0.03	0.06	0.01	0.03	0.04	0.06
Oxidation Reduction Potential	--	mV	-366.4	-198.5	-401.5	-294.0	-323.7	-278.3	-342.9	-177.7	-228.7	-201.5
pH	--	SU	6.53	6.53	6.82	6.57	6.66	6.49	6.55	6.47	6.50	6.61
Specific Conductance	--	µS/cm	12687	11825	11635	12937	12190	13120	12778	13116	15030	16744
Temperature	--	°C	24.63	24.69	24.14	26.21	24.94	24.99	25.62	24.72	22.11	20.89
Turbidity	--	NTU	0.37	0.36	0.29	0.11	0.17	0.36	0.06	0.42	0.94	0.57
Arsenic Speciation												
Arsenite	--	µg/L	0.524 J	NA	NA	NA	NA	1.32 J	NA	0.674 J	≤ 0.800	1.35
Arsenate	--	µg/L	≤ 0.500	NA	NA	NA	NA	23.3	NA	≤ 0.500	≤ 2.00	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	NA	NA	≤ 1.00	NA	≤ 0.250	≤ 1.00	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	NA	NA	≤ 0.800	NA	≤ 0.200	≤ 0.800	≤ 0.200
Unknown Arsenic Species	--	µg/L	9.29	NA	NA	NA	NA	9.41	NA	12.2	5.52	10.8

Table 6
Summary of Pilot Injection Performance Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Temporary Corrective Action Performance Monitoring Piezometer									
			DR-01									
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12	Week 23	Week 34
			8/28/2024	9/5/2024	9/12/2024	9/18/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024	1/30/2025	4/15/2025
Primary Performance Monitoring Parameters												
Total Arsenic	0.032	mg/L	0.0385	0.0205	0.0270	0.0180	0.0263	0.0200	0.0281	0.0205	0.0293	0.0360
Dissolved Arsenic	--	mg/L	0.0400	0.0236 J	0.0281	0.0160 J	0.0219	0.0174	0.0256	0.0154	0.0336	0.0425
Total Iron	--	mg/L	0.552	0.302	0.265	0.223	0.317	0.488	0.132	0.593	< 0.033	< 0.033
Dissolved Iron	--	mg/L	0.214	0.201 J	0.238	0.132	0.272	0.328	0.112	0.242 J	< 0.033	< 0.033
Sulfide	--	mg/L	31	24	27	23	40	24	18	23	29	22
Sulfate	--	mg/L	478	509	482	498	465	513	468	537	526	496
Deuterium (δ^2H H_2O)	--	‰	8.16 ± 0.5	7.42 ± 0.3	9.83 ± 0.5	7.54 ± 0.3	6.42 ± 0.4	5.73 ± 0.4	6.34 ± 0.4	7.07 ± 0.5	6.42 ± 0.1	5.96 ± 0.4
Relative Deuterium	--	%	0.04%	0.01%	0.09%	0.02%	-0.02%	-0.04%	-0.02%	0.00%	-0.02%	-0.04%
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring												
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001	< 0.001	< 0.005
Dissolved Antimony	--	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.005
Total Barium	2	mg/L	0.341	0.370 J	0.326 J	0.372 J	0.335 J	0.349 J	0.316 J	0.344 J	0.336 J	0.307 J
Dissolved Barium	--	mg/L	0.280	0.377 J	0.334 J	0.387 J	0.338 J	0.371 J	0.318 J	0.351 J	0.341 J	0.315 J
Total Beryllium	0.021	mg/L	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.0002
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.0002
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0015
Dissolved Cadmium	--	mg/L	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Total Chromium	0.1	mg/L	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015	< 0.003	< 0.003
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015	< 0.003	< 0.003
Total Cobalt	0.036	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003	< 0.0003
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003	< 0.0003
Fluoride	4	mg/L	0.396 HJ	< 0.66	< 0.66	0.409 J	0.445 J	0.411 J	1.95	0.437 J	< 0.33	0.533 J
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0025	< 0.0005
Total Lithium	0.049	mg/L	0.0397 J	0.0409	0.0429	0.0419	0.0431	0.0435	0.0479	0.0472 J	0.0454	0.0394 J
Dissolved Lithium	--	mg/L	0.0462	0.0454 J	0.0431	0.0415	0.0419	0.0445	0.0478	0.0537	0.0463	0.0407
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000790 J	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000740 J	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	< 0.001	0.000655 J	< 0.001	0.000551 J	0.000741 J	0.000607 J	< 0.001	0.000719 J	0.000859 J	< 0.001
Dissolved Molybdenum	--	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.000376 J	< 0.001	0.00040 J	0.000371 J	0.000478 J	< 0.001
Total Selenium	0.05	mg/L	< 0.0075	0.00196 J	0.00240 J	< 0.0015	< 0.0075	0.00171 J	< 0.0075	< 0.0015	< 0.0015	< 0.0075
Dissolved Selenium	--	mg/L	< 0.0075	< 0.0075	0.00238 J	< 0.0075	0.00180 J	0.00190 J	< 0.0075	0.00161 J	< 0.0015	< 0.0075
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006

Table 6
Summary of Pilot Injection Performance Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Temporary Corrective Action Performance Monitoring Piezometer									
			DR-01									
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12	Week 23	Week 34
			8/28/2024	9/5/2024	9/12/2024	9/18/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024	1/30/2025	4/15/2025
40 CFR Part 257 Appendix III and Geochemical Parameters												
Bicarbonate Alkalinity as $CaCO_3$	--	mg/L	252	NA	NA	236	NA	240	NA	251	262	278
Carbonate Alkalinity as $CaCO_3$	--	mg/L	< 0.725	NA	NA	< 0.725	NA	< 0.725	NA	< 0.725	< 0.725	< 0.725
Total Alkalinity as $CaCO_3$	--	mg/L	252	NA	NA	236	NA	240	NA	251	262	278
Total Boron	--	mg/L	0.631	0.724	0.691	0.727	0.713	0.714	0.785	0.776	0.875	0.815
Dissolved Boron	--	mg/L	0.659	0.752	0.723	0.676	0.746	0.726	0.788	0.865	0.807	0.802
Total Calcium	--	mg/L	169	NA	NA	175	NA	169	NA	181	171	152
Dissolved Calcium	--	mg/L	155	NA	NA	182	NA	170	NA	201	170	157
Chloride	--	mg/L	4,280	4,550	4,080	4,190	3,960	4,140	3,910	4,440	4,260	4,210
Total Magnesium	--	mg/L	303	NA	NA	313	NA	321	NA	321	304	292
Dissolved Magnesium	--	mg/L	273	NA	NA	318	NA	323	NA	327	316	301
Total Manganese	--	mg/L	0.194	NA	NA	0.194	NA	0.181	NA	0.207	0.182	0.165
Dissolved Manganese	--	mg/L	0.176	NA	NA	0.196	NA	0.186	NA	0.225	0.184	0.169
Total Potassium	--	mg/L	79.8	NA	NA	82.3	NA	84.1	NA	91.8	91.5	86.3
Dissolved Potassium	--	mg/L	76.1	NA	NA	92.2	NA	84.8	NA	100	91.5	88.1
Total Sodium	--	mg/L	2,390	NA	NA	2,250	NA	2,250	NA	2,320	2,310	2,280
Dissolved Sodium	--	mg/L	2,150	NA	NA	2,320	NA	2,270	NA	2,400	2,410	2,380
Total Dissolved Solids	--	mg/L	7,650	NA	NA	8,560	NA	7,580	NA	6,870	6,700	7,470
Field Parameters												
Ferrous Iron	--	mg/L	1.5	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5
Dissolved Oxygen	--	mg/L	0.04	0.08	0.04	0.02	0.03	0.05	0.03	0.02	0.07	0.05
Oxidation Reduction Potential	--	mV	-355.9	-332.6	-279.3	-339.1	-281.2	-328.4	-332.7	-306.3	-250.5	-185.2
pH	--	SU	6.86	6.80	6.89	6.79	6.78	6.80	6.86	6.79	6.87	7.06
Specific Conductance	--	µS/cm	12782	12027	13006	13810	13376	13206	13129	13839	13756	13300
Temperature	--	°C	25.12	24.69	24.41	24.82	25.26	25.19	23.92	25.81	21.71	23.91
Turbidity	--	NTU	0.50	0.15	0.42	0.37	0.43	0.37	0.16	0.28	0.64	0.32
Arsenic Speciation												
Arsenite	--	µg/L	1.54	NA	NA	NA	NA	≤ 0.800	NA	0.294 J	≤ 0.800	0.897 J
Arsenate	--	µg/L	≤ 0.500	NA	NA	NA	NA	≤ 2.00	NA	≤ 0.500	≤ 2.00	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	NA	NA	≤ 1.00	NA	≤ 0.250	≤ 1.00	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	NA	NA	≤ 0.800	NA	≤ 0.200	≤ 0.800	≤ 0.200
Unknown Arsenic Species	--	µg/L	57.8	NA	NA	NA	NA	26.5	NA	29.1	45.9	52.1

Table 6
Summary of Pilot Injection Performance Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Detection Monitoring Well									
			MCM-06									
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12	Week 23	Week 34
			8/28/2024	9/5/2024	9/12/2024	9/17/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024	1/29/2025	4/16/2025
Primary Performance Monitoring Parameters												
Total Arsenic	0.032	mg/L	0.111	0.110	0.107	0.101	0.0990	0.0991	0.117	0.109	0.0922	0.0641
Dissolved Arsenic	--	mg/L	0.107	0.125	0.105	0.118	0.103	0.104	0.127	0.105	0.0889	0.0684
Total Iron	--	mg/L	< 0.165	0.0442 J	0.0435 J	0.0453 J	0.0590 J	0.0397 J	0.0498 J	< 0.165	0.0874 J	0.0426 J
Dissolved Iron	--	mg/L	0.0360 J	< 0.165	0.0445 J	< 0.033	0.0462 J	0.0445 J	0.0495 J	< 0.165	0.195	0.0360 J
Sulfide	--	mg/L	42	42	47	43	67	40	35	36	36	23
Sulfate	--	mg/L	348	310	271	296	376	408	385	430	581	661
Deuterium (δ^2H H_2O)	--	‰	11.1 ± 0.4	36.6 ± 1	5.30 ± 0.3	3.89 ± 0.5	8.87 ± 0.1	6.55 ± 0.4	7.21 ± 0.4	8.56 ± 0.1	6.91 ± 0.1	3.11 ± 0.4
Relative Deuterium	--	%	0.11%	0.95%	-0.08%	-0.13%	0.04%	-0.04%	-0.02%	0.03%	-0.03%	-0.15%
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring												
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005
Dissolved Antimony	--	mg/L	< 0.005	< 0.005	< 0.001	< 0.005	< 0.001	< 0.005	< 0.005	< 0.001	< 0.001	< 0.005
Total Barium	2	mg/L	0.0902	0.0822 J	0.0727	0.0782 J	0.105 J	0.115 J	0.111 J	0.113 J	0.187 J	0.224 J
Dissolved Barium	--	mg/L	0.0907	0.0831 J	0.0776 J	0.0806 J	0.105 J	0.117 J	0.119 J	0.114 J	0.180 J	0.230 J
Total Beryllium	0.021	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.0002
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.0002	< 0.0002
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Dissolved Cadmium	--	mg/L	< 0.0015	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0015	< 0.0015	< 0.0003	< 0.0003	< 0.0015
Total Chromium	0.1	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015	< 0.003	< 0.003
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015	< 0.003	< 0.003
Total Cobalt	0.036	mg/L	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003	< 0.0003
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003	< 0.0003
Fluoride	4	mg/L	0.470 HJ	< 0.66	0.392 J	0.594 J	0.488 J	0.476 J	0.415 J	0.501 J	< 0.33	0.349 J
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0005	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005
Total Lithium	0.049	mg/L	0.0534	0.0531	0.0550	0.0535	0.0549	0.0583	0.0659	0.0708	0.0673	0.0545
Dissolved Lithium	--	mg/L	0.0615	0.0555	0.0518	0.0561	0.0550	0.0615	0.0677	0.0719	0.0659	0.0566
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000760 J	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000750 J	< 0.000067	< 0.000067	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	< 0.001	0.000906 J	0.000895 J	0.000904 J	0.000969 J	0.000714 J	0.000899 J	0.000912 J	0.000606 J	< 0.001
Dissolved Molybdenum	--	mg/L	< 0.001	< 0.001	0.000486 J	< 0.001	0.000366 J	< 0.001	< 0.001	0.000273 J	0.0182 J	< 0.001
Total Selenium	0.05	mg/L	< 0.0075	0.00162 J	< 0.0015	< 0.0015	0.00169 J	< 0.0015	< 0.0075	< 0.0015	< 0.0015	< 0.0075
Dissolved Selenium	--	mg/L	< 0.0075	< 0.0075	0.00172 J	< 0.0075	0.00155 J	0.00171 J	< 0.0075	< 0.0015	0.00161 J	< 0.0075
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.0006	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.0006

Table 6
Summary of Pilot Injection Performance Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Detection Monitoring Well									
			MCM-06									
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12	Week 23	Week 34
			8/28/2024	9/5/2024	9/12/2024	9/17/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024	1/29/2025	4/16/2025
40 CFR Part 257 Appendix III and Geochemical Parameters												
Bicarbonate Alkalinity as $CaCO_3$	--	mg/L	305	NA	NA	321	NA	284	NA	310	262	220
Carbonate Alkalinity as $CaCO_3$	--	mg/L	< 0.725	NA	NA	< 0.725	NA	< 0.725	NA	< 0.725	< 0.725	< 0.725
Total Alkalinity as $CaCO_3$	--	mg/L	305	NA	NA	321	NA	284	NA	310	262	220
Total Boron	--	mg/L	0.618	0.751	0.745	0.759	0.679	0.669	0.729	0.770	0.695	0.708
Dissolved Boron	--	mg/L	0.696	0.732	0.680	0.750	0.740	0.672	0.735	0.764	0.720	0.717
Total Calcium	--	mg/L	129	NA	134	136	NA	169	NA	201	212	211
Dissolved Calcium	--	mg/L	140	NA	NA	145	NA	171	NA	198	212	214
Chloride	--	mg/L	3,290	3,250	3,240	3,080	3,370	3,600	3,690	4,040	4,880	4,870
Total Magnesium	--	mg/L	233	NA	NA	231	NA	290	NA	333	403	374
Dissolved Magnesium	--	mg/L	238	NA	NA	250	NA	318	NA	336	392	386
Total Manganese	--	mg/L	0.145	NA	NA	0.145	NA	0.186	NA	0.239	0.277	0.287
Dissolved Manganese	--	mg/L	0.164	NA	NA	0.152	NA	0.194	NA	0.238	0.272	0.292
Total Potassium	--	mg/L	71.2	NA	NA	76.0	NA	85.3	NA	98.7	95.5	95.9
Dissolved Potassium	--	mg/L	76.9	NA	NA	86.3	NA	86.0	NA	96.4	95.9	97.0
Total Sodium	--	mg/L	1,800	NA	NA	1,660	NA	1,890	NA	2,090	2,560	2,770
Dissolved Sodium	--	mg/L	1,560	NA	NA	1,740	NA	1,980	NA	2,150	2,540	2,830
Total Dissolved Solids	--	mg/L	5,380	NA	5,340	6,140	NA	6,860	NA	6,250	10,200	9,150
Field Parameters												
Ferrous Iron	--	mg/L	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.5
Dissolved Oxygen	--	mg/L	0.01	0.06	0.01	-0.02	0.00	0.00	0.00	-0.01	0.06	0.06
Oxidation Reduction Potential	--	mV	-373.7	-335.4	-254.6	-376.8	-351.5	-230.0	-363.2	-338.9	-256.5	-227.3
pH	--	SU	7.12	7.19	7.20	7.19	7.05	7.05	7.07	7.01	6.69	6.90
Specific Conductance	--	µS/cm	10187	8954.7	10135	10489	11330	12021	12076	12908	15881	16681
Temperature	--	°C	24.69	24.32	23.85	25.61	25.58	24.31	23.63	25.12	22.70	21.90
Turbidity	--	NTU	0.96	0.15	0.27	0.09	0.06	0.47	0.24	0.26	2.67	0.49
Arsenic Speciation												
Arsenite	--	µg/L	0.920 J	NA	NA	0.865 J	NA	0.837 J	NA	0.942 J	≤ 0.800	1.79
Arsenate	--	µg/L	≤ 2.00	NA	NA	≤ 2.00	NA	≤ 2.00	NA	≤ 0.500	≤ 2.00	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 1.00	NA	NA	≤ 1.00	NA	≤ 1.00	NA	≤ 0.250	≤ 1.00	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.800	NA	NA	≤ 0.800	NA	≤ 0.800	NA	≤ 0.200	≤ 0.800	≤ 0.200
Unknown Arsenic Species	--	µg/L	134	NA	NA	146	NA	143	NA	163	102	83.7

Table 6
Summary of Pilot Injection Performance Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Notes:

1. Analytical methods are provided in Table 5. Ferrous iron was analyzed with a Hach® test kit in the field.
2. Negative dissolved oxygen values are assumed to be zero.
3. "Unknown arsenic species" is the total estimated concentration of any unidentified arsenic-containing species. Previous analytical data evaluating the "Unknown arsenic species" results have demonstrated that these species are thioarsenic species (Arcadis 2024).
4. The evaluation of 40 CFR Part 257 Appendix IV constituents excludes radium.
5. “J” qualifiers are applied by the laboratory when the reported concentration is above the method detection limit, but below the laboratory reporting limit.
6. Relative concentrations calculated based on the following equation: $A=([C]_{sample}-[C]_{baseline})/([C]_{injected}-[C]_{baseline})$. Where $[C]_{sample}$ is the concentration at a given sampling point, $[C]_{baseline}$ is the baseline concentration, and $[C]_{injected}$ is the concentration of the injection solution.
7. The initial concentration for deuterium, total iron, and ferrous iron from August 13, 2024 at the start of injection (i.e., zero gallons injected) was used in all instances to calculate relative iron except for the total iron at DR-02 due to anomalously high iron value (19.3 mg/L) relative to the pre-injection period (0.97 mg/L on June 18, 2024; Table 2).

Acronyms and Abbreviations:

$CaCO_3$ = calcium carbonate
CFR = Code of Federal Regulations
GWPS = Groundwater Protection Standard
F1 = matrix spike and/or matrix spike duplicate recovery exceeds control limits
H = sample exceeded the specified holding time
J = estimated value (see Note 5)
mg/L = milligram per liter
mV = millivolt
NA = not analyzed
NTU = nephelometric turbidity unit
S.U. = standard unit
% = percent
µg/L = microgram per liter
< = not detected at or above the laboratory method detection limit.
°C = degree Celsius
µS/cm = microSiemen per centimeter
-- = no Groundwater Protection Standard (GWPS) assigned to constituent
‰ = per mil
$\delta^2H\ H_2O$ = Delta notation measurement of stable hydrogen isotope concentrations. Results are compared to a known standard (δ^2H_s/δ^1H_s) by the following equation: $\delta^2H\ H_2O = ([(\delta^2H/\delta^1H)\div(\delta^2H_s/\delta^1H_s)]-1)x1000$. Negative results indicate

Reference:

Arcadis. 2024. Draft Remedy Selection Report. Plant McManus Former Ash Pond 1, Brunswick, Georgia. January 18.

Appendix A

2024 Semiannual Pilot Study Progress Report

2024 Semiannual Pilot Study Progress Summary

Plant McManus Former Ash Pond 1 (AP-1)

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Our Ref:
30180421

Prepared for:

Georgia Power Company
Brunswick, Georgia
Glynn County

CERTIFICATION STATEMENT

This 2024 Semiannual Pilot Study Progress Summary*, Georgia Power Company – Plant McManus Former Ash Pond 1 (AP-1)* has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual 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 Arcadis U.S., Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.

J. Geoffrey Gay, P.E. (PE 27801)
Technical Expert (Eng.), Vice President
February 28, 2025

2024 Semiannual Pilot Study Progress Summary

Plant McManus Former Ash Pond 1 (AP-1)
Georgia Power Company

February 28, 2025

Introduction

This Pilot Study Progress Summary (Summary) was developed by Arcadis U.S. Inc. (Arcadis) as part of implementing the Assessment of Corrective Measures (ACM) process at Georgia Power Company (Georgia Power) Plant McManus former Ash Pond 1 (AP-1). Arsenic is present in groundwater at statistically significant levels (SSLs) above the Groundwater Protection Standard (GWPS) of 0.032 milligrams per liter (mg/L) in detection monitoring well MCM-06. The nature and extent of arsenic can be found in Figure 9 of the adjoining 2024 Semiannual Groundwater Monitoring and Corrective Action Report (EnSafe 2025). A Draft Remedy Selection Report, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to Georgia Environmental Protection Division (GA EPD) on February 28, 2023 (revised on January 18, 2024) (Arcadis 2024a). Following GA EPD's approval of the MCM-06 Pilot Study Workplan (Arcadis 2024b) on June 26, 2024, a pilot study was initiated at former AP-1 in support of the ongoing remedy selection process. The purpose of this Summary is to describe the in situ injection pilot study work completed at the site between July and December 2024 and includes baseline sampling, injection activities, and post-injection monitoring. In addition, the Pilot Study Post-Injection Report submitted to GA EPD 45 days after initiation of injection is included as Appendix A of this Summary and provides a detailed summary of pilot study work completed between June 1 and August 20, 2024.

Pilot Study Summary

Pilot study injection well INW-01 and performance monitoring well DR-03 were installed on June 1, 2024. The well completion report is included within the Pilot Study Post-Injection Report (Arcadis 2024c) included as Appendix A to this Summary.

Prior to injection, baseline groundwater sampling was conducted at the pilot study network, on June 18 to 19 and July 23, 2024 in accordance with the sampling schedule provided in Table 1 and the MCM-06 Pilot Study Work Plan (Arcadis 2024b). A summary of baseline groundwater analytical data is provided in Table 2 of the Pilot Study Post-Injection Report (Appendix A; Arcadis 2024c).

Injection activities were performed between August 13 to 20, 2024 by Cascade Drilling, Inc. with technical supervision conducted by Arcadis. Approximately 4,329 gallons (gal) of a 0.2% by weight solution of iron (Fe) and 0.037% deuterium tracer was administered at the MCM-06 pilot study area. The iron for the injection solution was supplied from a ferrous chloride salt. All pilot study injection

activities were completed in accordance with the GA EPD approved Pilot Test Notification Form and the MCM-06 Pilot Study Workplan (Arcadis 2024b).

Additional details pertaining to the remedial implementation (pilot study well installation, injection activities, and dose response monitoring) can be found in the Pilot Study Post-Injection Event Report (Arcadis 2024c) submitted to GA EPD 45 days after initiation of injection activities and included as Appendix A to this Report.

Post-Injection Sampling Summary

Post-injection performance monitoring sample collection was initiated on August 27, 2024 per the sampling schedule provided in Table 1[1]. The wells sampled in post-injection performance monitoring program included the injection well (INW-01), dose response wells (DR-02, PT-03, DR-03), performance monitoring wells (PT-01, PT-02, DR-01), and detection monitoring well (MCM-06). Groundwater samples collected from these wells were generally evaluated for the complete suite of Appendix III and Appendix IV constituents (except radium), arsenic speciation, geochemical parameters (including deuterium[2]), and field parameters. The groundwater analytical results from the post-injection performance monitoring events between August 27, 2024, and November 13, 2024 are summarized in Table 2. Time series plots for arsenic at the injection well, dose response wells, and performance monitoring wells associated with the pilot study are included in Figures 1 and 2. The field and laboratory reports associated with these results are provided in Appendix B and C, respectively.

Summary

Post-injection monitoring is ongoing, and Georgia Power anticipates submitting a comprehensive pilot study technical report as a stand-alone document by August 29, 2025. The report will provide findings and recommendations for the design and implementation of the full-scale remedy. Following submittal of the report, Georgia Power anticipates receiving written authorization from GA EPD to hold the public meeting with the selected remedy of geochemical approaches (in-situ injection) and MNA. After the public meeting, Georgia Power will revise the Draft Remedy Selection Report (Arcadis 2024a), incorporating results of the pilot study and public meeting comments.

[1] Changes to the sampling program compared to the sample schedule provided in the Pilot Study Work Plan (Arcadis 2024b) include the addition of boron, magnesium, potassium, and sodium to the analyte list (assessed during each sampling event) and an expansion of analytes evaluated from groundwater collected at INW-01 to match the analyte list for the dose response and performance monitoring wells.
[2]Deuterium results were analyzed by Isotope Tracer Technologies Inc. (Waterloo, Ontario) rather than the UC Davis Isotope Laboratory, as indicated in the Pilot Study Work Plan (Arcadis 2024b).

References

Arcadis. 2021. Semiannual Remedy Selection and Design Progress Report – Plant McManus Former Ash Pond 1. Prepared for Georgia Power Company. July 30.

Arcadis. 2024a. Draft Remedy Selection Report, Plant McManus Former Ash Pond 1, Brunswick, Georgia. February 28, 2023. Revised January 18, 2024.

Arcadis. 2024b. MCM-06 Pilot Study Work Plan - Plant McManus Former Ash Pond 1. Prepared for Georgia Power. April 30.

Arcadis. 2024c. Pilot Study Post-Injection Event Report. Prepared for Georgia Power. September 27.

GA EPD. 2020. Final Closure through Removal Certification. Glynn- County – Plant McManus Ash Pond AP-1 APL 0631. January.

EnSafe. 2025. 2024 Semiannual Groundwater Monitoring and Corrective Action Report – Plant McManus Former Ash Pond AP-1. Prepared for Georgia Power Company. February 28.

United States. Code of Federal Regulations, Title 40, vol. 24, sec. 257, subpart D.

Attachments

Tables

Table 1. Pilot Study Sample Schedule – Post-Injection Monitoring

Table 2. Post-Injection Performance Monitoring Results

Figures

Figure 1. Total and Dissolved Arsenic: Injection and Dose Response Wells

Figure 2. Total and Dissolved Arsenic: Performance Monitoring and Detection Monitoring Wells

Appendices

Appendix A. Pilot Study Post-Injection Event Report (Arcadis 2024c)

Appendix B. Field Forms

Appendix C. Analytical Laboratory Reports

Tables

Table 1
Pilot Study Sample Schedule - Post-Injection Monitoring
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Parameter		Analytical Method	GWPS (mg/L)	Baseline Sampling		Post Injection Monitoring					
						Month 1				Month 2	
						Week 1	Week 2	Week 3	Week 4	Week 6	Week 8
Sampling Event Dates				6/18/2024 6/19/2024	7/23/2024	8/27/2024 8/28/2024	9/5/2024	9/12/2024	9/17/2024 9/18/2024	10/1/2024 10/2/2024	10/15/2024 10/16/2024
Primary Performance Monitoring Parameters	Arsenic	EPA 6020B	0.032	X	X	X	X	X	X	X	X
	Iron	EPA 6020B	--	X	X	X	X	X	X	X	X
	Sulfide	SM 4500-S2D	--	X	X	X	X	X	X	X	X
	Sulfate	USEPA 300.0	--	X	X	X	X	X	X	X	X
	Deuterium (δ^2H H_2O)	IRMS	--	X		X	X	X	X	X	X
Appendix IV Parameters	Antimony	EPA 6020B	0.006	X		X	X	X	X	X	X
	Barium	EPA 6020B	2	X		X	X	X	X	X	X
	Beryllium	EPA 6020B	0.021	X		X	X	X	X	X	X
	Cadmium	EPA 6020B	0.005	X		X	X	X	X	X	X
	Chromium	EPA 6020B	0.10	X		X	X	X	X	X	X
	Cobalt	EPA 6020B	0.036	X		X	X	X	X	X	X
	Fluoride	USEPA 300.0	4	X		X	X	X	X	X	X
	Lead	EPA 6020B	0.015	X		X	X	X	X	X	X
	Lithium	EPA 6020B	0.049	X		X	X	X	X	X	X
	Mercury	EPA 7470A	0.002	X		X	X	X	X	X	X
	Molybdenum	EPA 6020B	0.1	X		X	X	X	X	X	X
	Selenium	EPA 6020B	0.05	X		X	X	X	X	X	X
	Thallium	EPA 6020B	0.002	X		X	X	X	X	X	X
Geochemical Parameters/ Appendix III Parameters	Alkalinity	SM 2320B	--	X	X	X			X		X
	Boron	EPA 6020B	--	X		X	X	X	X	X	X
	Calcium	EPA 6020B	--	X	X	X			X		X
	Chloride	SM 4500	--	X	X	X	X	X	X	X	X
	Magnesium	EPA 6020B	--	X	X	X			X		X
	Manganese	EPA 6020B	--	X	X	X			X		X
	Potassium	EPA 6020B	--	X	X	X			X		X
	Sodium	EPA 6020B	--	X	X	X			X		X
	Total Dissolved Solids	SM 2540C	--	X	X	X			X		X
	Arsenic Speciation	IC-ICP-MS	--	X		X			X		X
Field Parameters	Dissolved Oxygen	Field Measurement	--	X	X	X	X	X	X	X	X
	Oxidation Reduction Potential	Field Measurement	--	X	X	X	X	X	X	X	X
	pH	Field Measurement	--	X	X	X	X	X	X	X	X
	Specific Conductance	Field Measurement	--	X	X	X	X	X	X	X	X
	Temperature	Field Measurement	--	X	X	X	X	X	X	X	X
	Turbidity	Field Measurement	--	X	X	X	X	X	X	X	X

Notes and abbreviations on page 3

Table 1
Pilot Study Sample Schedule - Post-Injection Monitoring
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Parameter		Analytical Method	Post Injection Monitoring			
			Month 3		Month 6	Month 9
			Week 10	Week 12	Week 22	Week 34
		Sampli	10/29/2024	11/12/2024 11/13/2024	To be completed	To be completed
Primary Performance Monitoring Parameters	Arsenic	EPA 6020B	X	X	X	X
	Iron	EPA 6020B	X	X	X	X
	Sulfide	SM 4500-S2D	X	X	X	X
	Sulfate	USEPA 300.0	X	X	X	X
	Deuterium (δ^2H H_2O)	IRMS	X	X	X	X
Appendix IV Parameters	Antimony	EPA 6020B	X	X	X	X
	Barium	EPA 6020B	X	X	X	X
	Beryllium	EPA 6020B	X	X	X	X
	Cadmium	EPA 6020B	X	X	X	X
	Chromium	EPA 6020B	X	X	X	X
	Cobalt	EPA 6020B	X	X	X	X
	Fluoride	USEPA 300.0	X	X	X	X
	Lead	EPA 6020B	X	X	X	X
	Lithium	EPA 6020B	X	X	X	X
	Mercury	EPA 7470A	X	X	X	X
	Molybdenum	EPA 6020B	X	X	X	X
	Selenium	EPA 6020B	X	X	X	X
	Thallium	EPA 6020B	X	X	X	X
Geochemical Parameters/ Appendix III Parameters	Alkalinity	SM 2320B		X	X	X
	Boron	EPA 6020B	X	X	X	X
	Calcium	EPA 6020B		X	X	X
	Chloride	SM 4500	X	X	X	X
	Magnesium	EPA 6020B		X	X	X
	Manganese	EPA 6020B		X	X	X
	Potassium	EPA 6020B		X	X	X
	Sodium	EPA 6020B		X	X	X
	Total Dissolved Solids	SM 2540C		X	X	X
	Arsenic Speciation	IC-ICP-MS		X	X	X
Field Parameters	Dissolved Oxygen	Field Measurement	X	X	X	X
	Oxidation Reduction Potential	Field Measurement	X	X	X	X
	pH	Field Measurement	X	X	X	X
	Specific Conductance	Field Measurement	X	X	X	X
	Temperature	Field Measurement	X	X	X	X
	Turbidity	Field Measurement	X	X	X	X

Notes and abbreviations on page 3

Table 1
Pilot Study Sample Schedule - Post-Injection Monitoring
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Notes:
1. Appendix IV constituents are 40 CFR Part 257 Appendix IV constituents for assessment monitoring, excluding radium. Total and dissolved metals were evaluated during each sampling event.

Abbreviations:
GWPS = Groundwater Protection Standard
mg/L = milligram per liter
USEPA = United States Environmental Protection Agency
IRMS = Isotope Ratio Mass Spectroscopy
IC-ICP-MS = Ion chromatography Inductively Coupled Plasma Mass Spectroscopy
-- = no GWPS assigned to constituent

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Injection Well							
			INW-01							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/27/2024	9/5/2024	9/12/2024	9/17/2024	10/2/2024	10/15/2024	10/29/2024	11/12/2024
Primary Performance Monitoring Parameters										
Total Arsenic	0.032	mg/L	< 0.01	< 0.002	< 0.01	0.00235 J	< 0.01	< 0.002	< 0.01	< 0.002
Dissolved Arsenic	--	mg/L	< 0.002	< 0.01	< 0.01	< 0.02	< 0.01	< 0.01	< 0.01	0.00239 J
Total Iron	--	mg/L	1,470	205	118	76.6	30.2	26.0	19.1	20.0
Dissolved Iron	--	mg/L	1,330	207	96.9	68.0	32.4	23.4	19.4	18.4
Sulfide	--	mg/L	9.6	11	2.8	2.7	< 1	< 0.83	< 0.81	1.8
Sulfate	--	mg/L	230	808	975	1,010	930	725	758	730
Deuterium (δ2H H2O)	--	‰	2330.5 ± 2.9	369.4 ± 0.3	192.6 ± 1	124.7 ± 0.9	53 ± 0.4	40.1 ± 0.2	30.9 ± 0.2	19 ± 0.4
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring										
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.005	< 0.001	< 0.005	< 0.005	< 0.005	< 0.001
Dissolved Antimony	--	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.001
Total Barium	2	mg/L	0.394	0.637 J	0.640 J	0.539 J	0.576 J	0.531 J	0.504 J	0.510 J
Dissolved Barium	--	mg/L	0.358	0.663 J	0.605 J	0.591 J	0.546 J	0.512 J	0.542 J	0.490 J
Total Beryllium	0.021	mg/L	< 0.001	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.001	< 0.001	< 0.0002	< 0.001	< 0.001
Dissolved Boron	--	mg/L	0.283	0.414	0.416	0.453	0.482	0.499	0.516	0.568
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0015	< 0.0015	< 0.0015	< 0.0003
Dissolved Cadmium	--	mg/L	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0003
Total Chromium	0.1	mg/L	< 0.015	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.015	< 0.015	< 0.003	< 0.015	< 0.015
Total Cobalt	0.036	mg/L	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0015	< 0.0015	< 0.0003	< 0.0015	< 0.0015
Fluoride	4	mg/L	1.11 J	< 0.66	< 0.66	< 0.66	< 0.33	< 0.33	< 0.33	< 0.33
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0005	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0005	< 0.0025	< 0.0005
Total Lithium	0.049	mg/L	0.0180 J	0.0131 J	< 0.015	0.00988 J	0.00782 J	0.00746 J	0.00707 J	< 0.015
Dissolved Lithium	--	mg/L	0.0186	< 0.015	0.0101 J	< 0.015	< 0.015	0.00734 J	< 0.015	< 0.015
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000780 J	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000770 J	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	< 0.001	0.000881 J	0.00197 J	0.00103 J	< 0.001	< 0.001	0.00119 J	0.000776 J
Dissolved Molybdenum	--	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.00198 J	< 0.001	< 0.001	0.0005 J
Total Selenium	0.05	mg/L	< 0.0075	0.00189 J	< 0.0075	0.00170 J	< 0.0075	0.00195 J	< 0.0075	0.0019 J
Dissolved Selenium	--	mg/L	< 0.0015	< 0.0075	< 0.0075	< 0.015	< 0.0075	< 0.0075	< 0.0075	0.00209 J
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.0006	< 0.003	< 0.003	< 0.003	< 0.003	< 0.0006	< 0.003	< 0.0006

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Injection Well INW-01							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/27/2024	9/5/2024	9/12/2024	9/17/2024	10/2/2024	10/15/2024	10/29/2024	11/12/2024
40 CFR Part 257 Appendix III and Geochemical Parameters										
Total Alkalinity as $CaCO_3$	--	mg/L	6	NA	NA	135	NA	167	NA	180
Total Boron	--	mg/L	0.293	0.451	0.424	0.449	0.461	0.494	0.536	0.587
Total Calcium	--	mg/L	132	NA	NA	239	NA	225	NA	237
Dissolved Calcium	--	mg/L	128	NA	NA	257	NA	223	NA	224
Chloride	--	mg/L	3,350	5,830	5,360	5,520	5,470	5,020	5,310	5,020
Total Magnesium	--	mg/L	132	NA	NA	320	NA	359	NA	348
Dissolved Magnesium	--	mg/L	123	NA	NA	347	NA	361	NA	340
Total Manganese	--	mg/L	0.415	NA	NA	0.119	NA	0.0783	NA	0.0747
Dissolved Manganese	--	mg/L	0.341	NA	NA	0.131	NA	0.0733	NA	0.072
Total Potassium	--	mg/L	37.7	NA	NA	88.2	NA	88.0	NA	97.1
Dissolved Potassium	--	mg/L	37.1	NA	NA	100	NA	87.9	NA	91.1
Total Sodium	--	mg/L	972	NA	NA	3,140	NA	3,300	NA	3,220
Dissolved Sodium	--	mg/L	838	NA	NA	3,270	NA	3,310	NA	3,140
Total Dissolved Solids	--	mg/L	4,900	NA	NA	10,900	NA	10,600	NA	9,890
Field Parameters										
Ferrous (II) Iron	--	mg/L	7.0	6.0	3.5	7.0	3.0	5.0	2.0	5.0
Dissolved Oxygen	--	mg/L	0.05	0.47	0.06	0.02	0.02	0.02	0.02	0.07
Oxidation Reduction Potential	--	mV	-77.25	-65.18	-88.25	-93.91	-69.95	-120.64	-185.02	-156.63
pH	--	SU	5.85	6.24	6.36	6.46	6.47	6.53	6.54	6.55
Specific Conductance	--	µS/cm	10065.58	17041.60	17284.08	16922.97	17256.03	17462.24	17610.02	16964.86
Temperature	--	°C	28.17	25.15	25.85	28.03	26.49	26.16	23.87	25.22
Turbidity	--	NTU	22.30	2.18	63.40	40.50	9.83	8.73	4.47	0.99
Arsenic Speciation										
As(III)	--	µg/L	≤ 0.200	NA	NA	≤ 0.200	NA	≤ 0.800	NA	≤ 0.200
As(V)	--	µg/L	≤ 0.500	NA	NA	≤ 0.500	NA	≤ 2.00	NA	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	≤ 0.250	NA	≤ 1.00	NA	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	≤ 0.200	NA	≤ 0.800	NA	≤ 0.200
Unknown arsenic species	--	µg/L	≤ 0.250	NA	NA	≤ 0.250	NA	1.12 J	NA	≤ 0.250

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Dose Response Well DR-03							
			Week 1 8/27/2024	Week 2 9/5/2024	Week 3 9/12/2024	Week 4 9/17/2024	Week 6 10/1/2024	Week 8 10/15/2024	Week 10 10/29/2024	Week 12 11/12/2024
Primary Performance Monitoring Parameters										
Total Arsenic	0.032	mg/L	< 0.01	0.00538 J	0.00358 J	0.00371 J	0.00344 J	0.00254 J	< 0.01	< 0.002
Dissolved Arsenic	--	mg/L	0.00450 J	< 0.01	0.00357 J	< 0.01	0.00243 J	0.00221 J	< 0.01	< 0.002
Total Iron	--	mg/L	1,210	403	212	165	85.2	47.9	34.6	32.6
Dissolved Iron	--	mg/L	1,080	437	215	155	89.7	47.1	31.9	31.1
Sulfide	--	mg/L	11	12	11	12	< 1	4.2	3.1	9.4
Sulfate	--	mg/L	111	249	324	338	1,170	247	258	261
Deuterium (δ2H H2O)	--	‰	2647.3 ± 27.6	1053.5 ± 4.1	564.7 ± 8.7	421.1 ± 0.5	170.4 ± 0.5	84.5 ± 0.3	55.6 ± 0.4	41.3 ± 0.3
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring										
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001
Dissolved Antimony	--	mg/L	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Total Barium	2	mg/L	0.0590	0.0420 J	0.0386 J	0.0345 J	0.0326 J	0.0283 J	0.0270 J	0.0248 J
Dissolved Barium	--	mg/L	0.0522	0.0453 J	0.0379 J	0.0340 J	0.0312 J	0.0283 J	0.0272 J	0.0251 J
Total Beryllium	0.021	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Boron	--	mg/L	0.314	0.687	0.763	0.861	0.911	0.884	0.951	0.948
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003
Dissolved Cadmium	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Total Chromium	0.1	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Total Cobalt	0.036	mg/L	0.000315 J	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Fluoride	4	mg/L	1.09	1.42 J	1.08	1.03	1.92	0.799 J	0.689 J	0.809 J
Total Lead	0.015	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Total Lithium	0.049	mg/L	0.0315	0.0482	0.0467	0.0472	0.0456	0.0445	0.0531	0.0503
Dissolved Lithium	--	mg/L	0.0364	0.0482 J	0.0466	0.0479	0.0437	0.0431	0.0502	0.0500
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000760 J	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000780 J	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	< 0.001	0.00111 J	0.000936 J	0.000959 J	0.000860 J	0.000716 J	< 0.001	0.000597 J
Dissolved Molybdenum	--	mg/L	0.000678 J	< 0.001	0.000821 J	0.000834 J	0.000675 J	0.000570 J	0.000547 J	0.000500 J
Total Selenium	0.05	mg/L	< 0.0075	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0075	< 0.0015
Dissolved Selenium	--	mg/L	< 0.0015	< 0.0075	< 0.0015	< 0.0075	< 0.0015	< 0.0015	< 0.0075	< 0.0015
Total Thallium	0.002	mg/L	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Dose Response Well DR-03							
			Week 1 8/27/2024	Week 2 9/5/2024	Week 3 9/12/2024	Week 4 9/17/2024	Week 6 10/1/2024	Week 8 10/15/2024	Week 10 10/29/2024	Week 12 11/12/2024
40 CFR Part 257 Appendix III and Geochemical Parameters										
Total Alkalinity as $CaCO_3$	--	mg/L	28	NA	NA	180	NA	215	NA	268
Total Boron	--	mg/L	0.354	0.675	0.744	0.844	0.843	0.958	0.987	0.934
Total Calcium	--	mg/L	153	NA	NA	89.1	NA	73.7	NA	78.4
Dissolved Calcium	--	mg/L	149	NA	NA	96.4	NA	68.9	NA	78.8
Chloride	--	mg/L	2,340	2,290	2,110	2,070	2,170	1,890	2,010	2,150
Total Magnesium	--	mg/L	99.3	NA	NA	101	NA	111	NA	122
Dissolved Magnesium	--	mg/L	93.9	NA	NA	115	NA	104	NA	125
Total Manganese	--	mg/L	1.53	NA	NA	0.66	NA	0.317	NA	0.272
Dissolved Manganese	--	mg/L	1.46	NA	NA	0.679	NA	0.321	NA	0.27
Total Potassium	--	mg/L	26.8	NA	NA	45.6	NA	48.6	NA	57.8
Dissolved Potassium	--	mg/L	27.6	NA	NA	52.8	NA	46.8	NA	58.0
Total Sodium	--	mg/L	334	NA	NA	1,130	NA	1,340	NA	1,430
Dissolved Sodium	--	mg/L	298	NA	NA	1,200	NA	1,230	NA	1,440
Total Dissolved Solids	--	mg/L	3,080	NA	NA	4,350	NA	4,180	NA	4,070
Field Parameters										
Ferrous (II) Iron	--	mg/L	7.0	7.0	7.0	6.0	7.0	3.0	3.0	3.0
Dissolved Oxygen	--	mg/L	0.04	0.35	0.02	0.00	-0.02	-0.03	-0.01	-0.02
Oxidation Reduction Potential	--	mV	-145.86	-136.79	-163.16	-174.87	-373.18	-364.61	-471.23	-487.18
pH	--	SU	6.29	6.48	6.73	6.81	6.87	6.92	6.90	6.98
Specific Conductance	--	µS/cm	6918.91	7124.26	7259.53	7107.64	7374.22	7464.48	7596.26	7503.38
Temperature	--	°C	26.91	24.42	25.09	24.13	26.03	24.58	22.79	24.59
Turbidity	--	NTU	11.72	8.09	7.83	4.66	3.49	1.96	2.58	0.74
Arsenic Speciation										
As(III)	--	µg/L	0.289 J	NA	NA	0.320 J	NA	≤ 0.800	NA	0.364 J
As(V)	--	µg/L	3.8	NA	NA	1.9	NA	≤ 2.00	NA	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	≤ 0.250	NA	≤ 1.00	NA	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	≤ 0.200	NA	≤ 0.800	NA	≤ 0.200
Unknown arsenic species	--	µg/L	≤ 0.250	NA	NA	≤ 0.250	NA	≤ 1.00	NA	≤ 0.250

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Dose Response Well PT-03							
			Week 1 8/27/2024	Week 2 9/5/2024	Week 3 9/12/2024	Week 4 9/17/2024	Week 6 10/1/2024	Week 8 10/15/2024	Week 10 10/29/2024	Week 12 11/12/2024
Primary Performance Monitoring Parameters										
Total Arsenic	0.032	mg/L	0.0226 J	0.0105	0.00507 J	0.0109	0.00852 J	0.0108	0.0163 J	0.0106
Dissolved Arsenic	--	mg/L	0.00747	< 0.01	0.00315 J	< 0.01	0.00855 J	0.0107	0.0154 J	0.00943 J
Total Iron	--	mg/L	128	6.29	18.1	3.10	0.860	0.492	0.729	0.702
Dissolved Iron	--	mg/L	127	3.40	8.26	2.05	0.518	0.354	0.381	0.453 J
Sulfide	--	mg/L	9.9	12	13	16	31	26	16	18
Sulfate	--	mg/L	464	546	379	505	448	480	437	583
Deuterium (δ2H H2O)	--	‰	399.2 ± 1.5	29.2 ± 0.3	42.3 ± 0.4	13.8 ± 0.3	14.7 ± 0.5	9.2 ± 0.5	7.1 ± 0.4	6.5 ± 0.5
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring										
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001
Dissolved Antimony	--	mg/L	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001
Total Barium	2	mg/L	0.344	0.389 J	0.171 J	0.344 J	0.247 J	0.275 J	0.238 J	0.312 J
Dissolved Barium	--	mg/L	0.319	0.430 J	0.170 J	0.358 J	0.255 J	0.308 J	0.225 J	0.311 J
Total Beryllium	0.021	mg/L	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Boron	--	mg/L	0.573	0.647	0.701	0.637	0.690	0.695	0.703	0.660
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003
Dissolved Cadmium	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003
Total Chromium	0.1	mg/L	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Total Cobalt	0.036	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Fluoride	4	mg/L	0.400 HJ	< 0.66	0.812 J	0.398 J	0.418 J	0.423 J	0.984 J	< 0.33
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0005	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Total Lithium	0.049	mg/L	0.0305 J	0.0282 J	0.0395 J	0.0285 J	0.0332 J	0.0317 J	0.0396 J	0.0309 J
Dissolved Lithium	--	mg/L	0.0333	0.0291 J	0.0374 J	0.0296 J	0.0320 J	0.0330 J	0.0376 J	0.0320 J
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000840 J	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000810 J	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	0.00159 J	0.000517 J	< 0.001	0.000453 J	0.000462 J	0.000382 J	< 0.001	0.000473 J
Dissolved Molybdenum	--	mg/L	0.00148	< 0.001	0.000247 J	< 0.001	0.000284 J	< 0.001	0.000280 J	0.000320 J
Total Selenium	0.05	mg/L	< 0.0075	0.00195 J	0.00183 J	0.00158 J	0.00150 J	< 0.0015	< 0.0075	< 0.0015
Dissolved Selenium	--	mg/L	< 0.0015	< 0.0075	0.00167 J	< 0.0075	0.00159 J	0.00186 J	< 0.0075	0.00181 J
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.0006	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Dose Response Well PT-03							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/27/2024	9/5/2024	9/12/2024	9/17/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024
40 CFR Part 257 Appendix III and Geochemical Parameters										
Total Alkalinity as $CaCO_3$	--	mg/L	145	NA	NA	210	NA	221	NA	202
Total Boron	--	mg/L	0.586	0.634	0.721	0.641	0.679	0.652	0.719	0.633
Total Calcium	--	mg/L	164	NA	NA	160	NA	146	NA	177
Dissolved Calcium	--	mg/L	165	NA	NA	173	NA	155	NA	183
Chloride	--	mg/L	4,030	4,530	3,180	3,870	3,460	3,650	3,450	4,370
Total Magnesium	--	mg/L	216	NA	NA	229	NA	231	NA	277
Dissolved Magnesium	--	mg/L	209	NA	NA	258	NA	248	NA	309
Total Manganese	--	mg/L	0.379	NA	NA	0.093	NA	0.0656	NA	0.0931
Dissolved Manganese	--	mg/L	0.425	NA	NA	0.0932	NA	0.0734	NA	0.0959
Total Potassium	--	mg/L	66.1	NA	NA	72.1	NA	72.4	NA	78.9
Dissolved Potassium	--	mg/L	65.4	NA	NA	84.0	NA	76.3	NA	82.1
Total Sodium	--	mg/L	2,270	NA	NA	2,150	NA	2,090	NA	2,330
Dissolved Sodium	--	mg/L	1,850	NA	NA	2,320	NA	2,220	NA	2,570
Total Dissolved Solids	--	mg/L	6,820	NA	NA	7,530	NA	6,800	NA	6,420
Field Parameters										
Ferrous (II) Iron	--	mg/L	7.0	4.0	2.0	2.0	1.5	0.5	1.0	0.5
Dissolved Oxygen	--	mg/L	0.00	0.12	-0.02	0.00	0.00	0.00	0.02	-0.01
Oxidation Reduction Potential	--	mV	-347.36	-193.43	-352.65	-339.32	-293.58	-333.11	-325.73	-330.14
pH	--	SU	6.39	6.65	6.78	6.62	6.76	6.57	6.84	6.55
Specific Conductance	--	µS/cm	12049.10	14047.99	9325.37	12430.00	11598.35	13564.16	11673.45	13418.47
Temperature	--	°C	26.51	25.53	25.21	25.98	25.60	26.11	24.36	25.50
Turbidity	--	NTU	4.36	4.79	6.25	3.55	0.53	0.83	2.11	0.75
Arsenic Speciation										
As(III)	--	µg/L	3.6	NA	NA	0.414 J	NA	≤ 0.800	NA	0.385 J
As(V)	--	µg/L	3.5	NA	NA	≤ 0.500	NA	≤ 2.00	NA	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	≤ 0.250	NA	≤ 1.00	NA	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	≤ 0.200	NA	≤ 0.800	NA	≤ 0.200
Unknown arsenic species	--	µg/L	0.441 J	NA	NA	5.5	NA	9.2	NA	13.3

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Dose Response Well							
			DR-02							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/27/2024	9/5/2024	9/12/2024	9/18/2024	10/1/2024	10/16/2024	10/29/2024	11/13/2024
Primary Performance Monitoring Parameters										
Total Arsenic	0.032	mg/L	0.151	0.0659	0.0449	0.0652	0.0571	0.0576	0.0508	0.0556
Dissolved Arsenic	--	mg/L	0.0571	0.0616	0.0470	0.0652	0.0521	0.0604	0.0676	0.0568
Total Iron	--	mg/L	5.47	1.26	0.287	1.32	0.213	0.477	0.108	0.324 J
Dissolved Iron	--	mg/L	0.0707 J	< 0.165	0.0586 J	0.142	0.0369 J	0.182	0.0459 J	< 0.165
Sulfide	--	mg/L	35	30	33	8.5	64	27	28	33
Sulfate	--	mg/L	310	325	317	329	324	330	343	383
Deuterium (δ2H H2O)	--	‰	8.8 ± 0.2	6.6 ± 0.1	2.4 ± 0.2	6.4 ± 0.2	6 ± 0.2	5.8 ± 0.4	6.5 ± 0.4	7.4 ± 0.1
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring										
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001
Dissolved Antimony	--	mg/L	< 0.005	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Total Barium	2	mg/L	0.0813	0.0675 J	0.0537 J	0.0692 J	0.0652 J	0.0734 J	0.0571 J	0.0718 J
Dissolved Barium	--	mg/L	0.0758	0.0713 J	0.0518 J	0.0697 J	0.0714 J	0.0720 J	0.0543 J	0.0725 J
Total Beryllium	0.021	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Boron	--	mg/L	0.811	0.950	0.852	0.910	0.870	0.866	0.897	0.907
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003
Dissolved Cadmium	--	mg/L	< 0.0015	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Total Chromium	0.1	mg/L	0.00407 J	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Total Cobalt	0.036	mg/L	0.000300 J	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Fluoride	4	mg/L	0.587 HJ	0.918 J	0.870 J	0.618 J	0.613 J	0.587 J	2.64	0.588 J
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Total Lithium	0.049	mg/L	0.0428	0.0478	0.0440	0.0489	0.0478	0.0486	0.0532	0.0567
Dissolved Lithium	--	mg/L	0.0527	0.0536	0.0478	0.0503	0.0468	0.0490	0.0528	0.0570
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000750 J	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000790 J	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	0.00244 J	0.00121 J	0.000840 J	0.00110 J	0.00104 J	0.000956 J	< 0.001	0.00105 J
Dissolved Molybdenum	--	mg/L	< 0.001	< 0.001	0.000459 J	0.000557 J	0.000595 J	0.000624 J	0.000596 J	0.000571 J
Total Selenium	0.05	mg/L	< 0.0075	0.00162 J	0.00193 J	< 0.0015	0.00887 J	< 0.0015	< 0.0075	< 0.0015
Dissolved Selenium	--	mg/L	< 0.0015	< 0.0075	0.00170 J	< 0.0075	0.00163 J	< 0.0015	< 0.0075	< 0.0015
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Dose Response Well DR-02							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/27/2024	9/5/2024	9/12/2024	9/18/2024	10/1/2024	10/16/2024	10/29/2024	11/13/2024
40 CFR Part 257 Appendix III and Geochemical Parameters										
Total Alkalinity as $CaCO_3$	--	mg/L	321	NA	NA	306	NA	303	NA	301
Total Boron	--	mg/L	0.777	0.838	0.825	0.898	0.840	0.843	0.924	0.923
Total Calcium	--	mg/L	100	NA	NA	105	NA	114	NA	130
Dissolved Calcium	--	mg/L	99.8	NA	NA	113	NA	114	NA	132
Chloride	--	mg/L	2,690	2,860	2,590	2,690	2,730	2,680	2,720	3,140
Total Magnesium	--	mg/L	170	NA	NA	173	NA	192	NA	225
Dissolved Magnesium	--	mg/L	167	NA	NA	197	NA	193	NA	236
Total Manganese	--	mg/L	0.105	NA	NA	0.0951	NA	0.0943	NA	0.115
Dissolved Manganese	--	mg/L	0.089	NA	NA	0.0925	NA	0.0955	NA	0.114
Total Potassium	--	mg/L	65.5	NA	NA	67.3	NA	69.6	NA	77.2
Dissolved Potassium	--	mg/L	65.1	NA	NA	77.1	NA	70.0	NA	78.5
Total Sodium	--	mg/L	1,730	NA	NA	1,640	NA	1,710	NA	1,800
Dissolved Sodium	--	mg/L	1,510	NA	NA	1,640	NA	1,670	NA	1,900
Total Dissolved Solids	--	mg/L	4,570	NA	NA	5,730	NA	5,510	NA	5,780
Field Parameters										
Ferrous (II) Iron	--	mg/L	7.0	0.5	1.0	1.0	0.5	1.0	1.0	0.5
Dissolved Oxygen	--	mg/L	0.03	0.03	0.02	0.03	0.04	0.01	0.04	0.03
Oxidation Reduction Potential	--	mV	-369.53	-366.88	-369.60	-350.04	-340.27	-368.89	-361.10	-297.50
pH	--	SU	7.33	7.31	7.38	7.33	7.32	7.29	7.36	7.20
Specific Conductance	--	µS/cm	9125.20	9364.84	9080.64	9559.51	9650.98	9941.72	9616.20	10162.46
Temperature	--	°C	25.32	24.68	24.67	24.19	24.68	22.97	23.96	25.00
Turbidity	--	NTU	3.19	2.02	2.35	3.55	1.10	1.23	1.99	0.72
Arsenic Speciation										
As(III)	--	µg/L	0.658 J	NA	NA	0.604 J	NA	≤ 0.800	NA	0.658 J
As(V)	--	µg/L	≤ 0.500	NA	NA	≤ 0.500	NA	≤ 2.00	NA	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	≤ 0.250	NA	≤ 1.00	NA	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	≤ 0.200	NA	≤ 0.800	NA	≤ 0.200
Unknown arsenic species	--	µg/L	89.6	NA	NA	71.1	NA	79.5	NA	80.9

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Performance Monitoring Well							
			PT-01							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/28/2024	9/5/2024	9/12/2024	9/17/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024
Primary Performance Monitoring Parameters										
Total Arsenic	0.032	mg/L	0.0131 J	0.00878 J	0.0144	0.00991 J	0.0130 J	0.0109	0.0166 J	0.0115
Dissolved Arsenic	--	mg/L	0.0141 J	0.0105 J	0.0117	< 0.01	0.0108	0.00983 J	0.0177 J	0.00987 J
Total Iron	--	mg/L	0.446 J	0.118	0.233	0.320	0.156	0.106	0.0907 J	0.218 J
Dissolved Iron	--	mg/L	0.106	< 0.165	0.0789 J	0.0711 J	0.0929 J	0.0808 J	< 0.165	< 0.165
Sulfide	--	mg/L	23	20	24	21	36	21	15	20
Sulfate	--	mg/L	526	542	525	548	523	533	517	573
Deuterium (δ2H H2O)	--	‰	10.6 ± 0.5	5.4 ± 0.2	8.8 ± 0.4	6.8 ± 0.3	6.1 ± 0.4	4.8 ± 0.3	5.6 ± 0.3	6.5 ± 0.1
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring										
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dissolved Antimony	--	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.001	< 0.005	< 0.005	< 0.001
Total Barium	2	mg/L	0.687	0.693 J	0.621 J	0.684 J	0.633 J	0.629 J	0.573 J	0.579 J
Dissolved Barium	--	mg/L	0.661	0.721 J	0.608 J	0.726 J	0.659 J	0.640 J	0.644 J	0.588 J
Total Beryllium	0.021	mg/L	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.001
Dissolved Boron	--	mg/L	0.759	0.758	0.737	0.719	0.777	0.701	0.753	0.739
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Dissolved Cadmium	--	mg/L	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0003	< 0.0015	< 0.0015	< 0.0003
Total Chromium	0.1	mg/L	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.015	< 0.003	< 0.003	< 0.015	< 0.015
Total Cobalt	0.036	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0015	< 0.0015
Fluoride	4	mg/L	0.347 HJ	< 0.66	< 0.66	0.395 J	0.390 J	0.389 J	< 0.33	0.373 J
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0025	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0025	< 0.0005
Total Lithium	0.049	mg/L	0.0310 J	0.0293 J	0.0345 J	0.0299 J	0.0318 J	0.0330 J	0.0374 J	0.0374 J
Dissolved Lithium	--	mg/L	0.0381	0.0322 J	0.0344 J	0.0313 J	0.0321 J	0.0338 J	0.0402 J	0.0363 J
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000770 J	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000770 J	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	< 0.001	0.000676 J	< 0.001	0.000643 J	0.0006770 J	0.000568 J	0.000620 J	0.000632 J
Dissolved Molybdenum	--	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.000412 J	< 0.001	< 0.001	0.000366 J
Total Selenium	0.05	mg/L	< 0.0075	0.00199 J	0.00230 J	< 0.0015	< 0.0075	0.00157 J	< 0.0075	< 0.0015
Dissolved Selenium	--	mg/L	< 0.0075	< 0.0075	0.00224 J	< 0.0075	0.00162 J	0.00165 J	< 0.0075	0.00176 J
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.003	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.003	< 0.0006

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Performance Monitoring Well PT-01							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/28/2024	9/5/2024	9/12/2024	9/17/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024
40 CFR Part 257 Appendix III and Geochemical Parameters										
Total Alkalinity as $CaCO_3$	--	mg/L	231	NA	NA	229	NA	232	NA	236
Total Boron	--	mg/L	0.656	0.751	0.723	0.726	0.700	0.739	0.736	0.708
Total Calcium	--	mg/L	176	NA	NA	183	NA	184	NA	189
Dissolved Calcium	--	mg/L	180	NA	NA	192	NA	180	NA	186
Chloride	--	mg/L	4,360	4,550	4,090	4,270	4,100	4,070	4,160	4,550
Total Magnesium	--	mg/L	283	NA	NA	283	NA	296	NA	308
Dissolved Magnesium	--	mg/L	274	NA	NA	303	NA	316	NA	308
Total Manganese	--	mg/L	0.279	NA	NA	0.279	NA	0.258	NA	0.307
Dissolved Manganese	--	mg/L	0.274	NA	NA	0.31	NA	0.263	NA	0.308
Total Potassium	--	mg/L	82.3	NA	NA	85.9	NA	91.9	NA	92.1
Dissolved Potassium	--	mg/L	88.1	NA	NA	99.0	NA	89.3	NA	92.2
Total Sodium	--	mg/L	2,340	NA	NA	2,270	NA	2,440	NA	2,390
Dissolved Sodium	--	mg/L	2,140	NA	NA	2,370	NA	2,420	NA	2,380
Total Dissolved Solids	--	mg/L	8,320	NA	NA	8,460	NA	7,970	NA	7,350
Field Parameters										
Ferrous (II) Iron	--	mg/L	1.0	0.5	0.5	0.5	1.0	0.0	0.0	0.0
Dissolved Oxygen	--	mg/L	0.05	0.07	0.04	0.02	0.01	0.04	0.03	0.01
Oxidation Reduction Potential	--	mV	-339.56	-316.35	-291.32	-339.07	-308.00	-187.61	-331.67	-300.07
pH	--	SU	6.74	6.80	6.87	6.80	6.79	6.76	6.83	6.79
Specific Conductance	--	µS/cm	14103.32	12220.49	12904.38	13974.17	13842.26	13990.76	13762.61	14561.80
Temperature	--	°C	26.19	24.13	24.18	24.31	25.68	23.41	24.45	25.90
Turbidity	--	NTU	1.10	0.92	1.01	0.70	0.66	0.40	0.12	0.29
Arsenic Speciation										
As(III)	--	µg/L	≤ 0.200	NA	NA	NA	NA	≤ 0.800	NA	≤ 0.200
As(V)	--	µg/L	≤ 0.500	NA	NA	NA	NA	≤ 2.00	NA	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	NA	NA	≤ 1.00	NA	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	NA	NA	≤ 0.800	NA	≤ 0.200
Unknown arsenic species	--	µg/L	13.4	NA	NA	NA	NA	13.2	NA	14.4

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Performance Monitoring Well PT-02							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/28/2024	9/5/2024	9/12/2024	9/17/2024	10/2/2024	10/15/2024	10/29/2024	11/13/2024
Primary Performance Monitoring Parameters										
Total Arsenic	0.032	mg/L	0.0101 J	0.00368 J	0.0231	0.0120	0.0292	0.00730 J	0.0281	0.00446 J
Dissolved Arsenic	--	mg/L	0.0107 J	< 0.01	0.0219	0.011 J	0.0279	0.00677 J	0.0240 J	0.00409 J
Total Iron	--	mg/L	3.11	3.70	1.24	3.62	0.909	2.67	2.17	2.04
Dissolved Iron	--	mg/L	2.59	4.22	1.16	3.50	0.763	2.74	2.20	1.95
Sulfide	--	mg/L	18	13	25	17	35	15	13	13
Sulfate	--	mg/L	499	538	430	513	438	512	453	547
Deuterium (δ2H H2O)	--	‰	1.1 ± 0.4	3.6 ± 0.2	7.7 ± 0.2	5 ± 0.3	4.8 ± 0.3	3.6 ± 0.2	5.3 ± 0.2	4.4 ± 0.4
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring										
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dissolved Antimony	--	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.001	< 0.005	< 0.005	< 0.001
Total Barium	2	mg/L	0.582	0.660 J	0.496 J	0.578 J	0.486 J	0.597 J	0.482 J	0.533 J
Dissolved Barium	--	mg/L	0.585	0.711 J	0.477 J	0.621 J	0.485 J	0.609 J	0.539 J	0.563 J
Total Beryllium	0.021	mg/L	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001	< 0.001
Dissolved Boron	--	mg/L	0.589	0.609	0.618	0.597	0.673	0.542	0.630	0.551
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Dissolved Cadmium	--	mg/L	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0003	< 0.0015	< 0.0015	< 0.0003
Total Chromium	0.1	mg/L	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015	< 0.015
Total Cobalt	0.036	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0015
Fluoride	4	mg/L	< 0.33 H	< 0.66	< 0.66	< 0.33	0.400 J	< 0.33	1.55	< 0.33
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0025	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0025	< 0.0005
Total Lithium	0.049	mg/L	0.0210 J	0.0159 J	0.0290 J	0.0195 J	0.0239 J	0.0175 J	0.0265 J	0.0179 J
Dissolved Lithium	--	mg/L	0.0253	0.0177 J	0.0272 J	0.0197 J	0.0253 J	0.0194 J	0.0234 J	0.0176 J
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000790 J	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000770 J	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	< 0.001	0.000686 J	< 0.001	0.000804 J	0.000810 J	0.000794 J	0.000863 J	0.000742 J
Dissolved Molybdenum	--	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.000483 J	< 0.001	< 0.001	0.000543 J
Total Selenium	0.05	mg/L	< 0.0075	0.00207 J	0.00220 J	0.00209 J	0.00159 J	0.00174 J	< 0.0075	0.00184 J
Dissolved Selenium	--	mg/L	< 0.0075	< 0.0075	0.00260 J	< 0.0075	0.00183 J	0.00198 J	< 0.0075	0.00181 J
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.003	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.003	< 0.0006

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Performance Monitoring Well PT-02							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/28/2024	9/5/2024	9/12/2024	9/17/2024	10/2/2024	10/15/2024	10/29/2024	11/13/2024
40 CFR Part 257 Appendix III and Geochemical Parameters										
Total Alkalinity as $CaCO_3$	--	mg/L	208	NA	NA	209	NA	201	NA	199
Total Boron	--	mg/L	0.554	0.549	0.669	0.582	0.606	0.571	0.636	0.538
Total Calcium	--	mg/L	167	NA	NA	169	NA	179	NA	185
Dissolved Calcium	--	mg/L	171	NA	NA	181	NA	175	NA	188
Chloride	--	mg/L	4,090	4,450	3,660	3,890	3,640	4,060	3,780	4,380
Total Magnesium	--	mg/L	245	NA	NA	248	NA	273	NA	286
Dissolved Magnesium	--	mg/L	254	NA	NA	275	NA	283	NA	291
Total Manganese	--	mg/L	0.248	NA	NA	0.248	NA	0.224	NA	0.258
Dissolved Manganese	--	mg/L	0.261	NA	NA	0.264	NA	0.233	NA	0.261
Total Potassium	--	mg/L	71.3	NA	NA	73.2	NA	74.8	NA	75.0
Dissolved Potassium	--	mg/L	73.8	NA	NA	83.2	NA	72.4	NA	75.7
Total Sodium	--	mg/L	2,380	NA	NA	2,100	NA	2,200	NA	2,340
Dissolved Sodium	--	mg/L	2,070	NA	NA	2,240	NA	2,240	NA	2,360
Total Dissolved Solids	--	mg/L	6,620	NA	NA	8,000	NA	7,590	NA	7,410
Field Parameters										
Ferrous (II) Iron	--	mg/L	2.5	1.0	1.5	1.5	1.5	1.5	1.5	2.5
Dissolved Oxygen	--	mg/L	0.03	0.05	0.02	0.01	0.03	0.06	0.01	0.03
Oxidation Reduction Potential	--	mV	-366.41	-198.53	-401.53	-293.99	-323.69	-278.33	-342.87	-177.70
pH	--	SU	6.53	6.53	6.82	6.57	6.66	6.49	6.55	6.47
Specific Conductance	--	µS/cm	12687.34	11824.70	11634.53	12936.64	12189.96	13119.68	12777.99	13115.86
Temperature	--	°C	24.63	24.69	24.14	26.21	24.94	24.99	25.62	24.72
Turbidity	--	NTU	0.37	0.36	0.29	0.11	0.17	0.36	0.06	0.42
Arsenic Speciation										
As(III)	--	µg/L	0.524 J	NA	NA	NA	NA	1.32 J	NA	0.674 J
As(V)	--	µg/L	≤ 0.500	NA	NA	NA	NA	23.3	NA	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	NA	NA	≤ 1.00	NA	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	NA	NA	≤ 0.800	NA	≤ 0.200
Unknown arsenic species	--	µg/L	9.3	NA	NA	NA	NA	9.4	NA	12.2

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Performance Monitoring Well DR-01							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/28/2024	9/5/2024	9/12/2024	9/18/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024
Primary Performance Monitoring Parameters										
Total Arsenic	0.032	mg/L	0.0385	0.0205	0.0270	0.0180	0.0263	0.0200	0.0281	0.0205
Dissolved Arsenic	--	mg/L	0.0400	0.0236 J	0.0281	0.0160 J	0.0219	0.0174	0.0256	0.0154
Total Iron	--	mg/L	0.552	0.302	0.265	0.223	0.317	0.488	0.132	0.593
Dissolved Iron	--	mg/L	0.214	0.201 J	0.238	0.132	0.272	0.328	0.112	0.242 J
Sulfide	--	mg/L	31	24	27	23	40	24	18	23
Sulfate	--	mg/L	478	509	482	498	465	513	468	537
Deuterium (δ2H H2O)	--	‰	8.2 ± 0.5	7.4 ± 0.3	9.8 ± 0.5	7.5 ± 0.3	6.4 ± 0.4	5.7 ± 0.4	6.3 ± 0.4	7.1 ± 0.5
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring										
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001	< 0.001	< 0.005	< 0.001
Dissolved Antimony	--	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.001	< 0.005	< 0.001	< 0.001
Total Barium	2	mg/L	0.341	0.370 J	0.326 J	0.372 J	0.335 J	0.349 J	0.316 J	0.344 J
Dissolved Barium	--	mg/L	0.280	0.377 J	0.334 J	0.387 J	0.338 J	0.371 J	0.318 J	0.351 J
Total Beryllium	0.021	mg/L	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Boron	--	mg/L	0.659	0.752	0.723	0.676	0.746	0.726	0.788	0.865
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0015	< 0.0003
Dissolved Cadmium	--	mg/L	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0003
Total Chromium	0.1	mg/L	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Total Cobalt	0.036	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Fluoride	4	mg/L	0.396 HJ	< 0.66	< 0.66	0.409 J	0.445 J	0.411 J	1.95	0.437 J
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Total Lithium	0.049	mg/L	0.0397 J	0.0409	0.0429	0.0419	0.0431	0.0435	0.0479	0.0472 J
Dissolved Lithium	--	mg/L	0.0462	0.0454 J	0.0431	0.0415	0.0419	0.0445	0.0478	0.0537
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000790 J	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000740 J	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	< 0.001	0.000655 J	< 0.001	0.000551 J	0.000741 J	0.000607 J	< 0.001	0.000719 J
Dissolved Molybdenum	--	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	0.000376 J	< 0.001	0.00040 J	0.000371 J
Total Selenium	0.05	mg/L	< 0.0075	0.00196 J	0.00240 J	< 0.0015	< 0.0075	0.00171 J	< 0.0075	< 0.0015
Dissolved Selenium	--	mg/L	< 0.0075	< 0.0075	0.00238 J	< 0.0075	0.00180 J	0.00190 J	< 0.0075	0.00161 J
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Performance Monitoring Well DR-01							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/28/2024	9/5/2024	9/12/2024	9/18/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024
40 CFR Part 257 Appendix III and Geochemical Parameters										
Total Alkalinity as $CaCO_3$	--	mg/L	252	NA	NA	236	NA	240	NA	251
Total Boron	--	mg/L	0.631	0.724	0.691	0.727	0.713	0.714	0.785	0.776
Total Calcium	--	mg/L	169	NA	NA	175	NA	169	NA	181
Dissolved Calcium	--	mg/L	155	NA	NA	182	NA	170	NA	201
Chloride	--	mg/L	4,280	4,550	4,080	4,190	3,960	4,140	3,910	4,440
Total Magnesium	--	mg/L	303	NA	NA	313	NA	321	NA	321
Dissolved Magnesium	--	mg/L	273	NA	NA	318	NA	323	NA	327
Total Manganese	--	mg/L	0.194	NA	NA	0.194	NA	0.181	NA	0.207
Dissolved Manganese	--	mg/L	0.176	NA	NA	0.196	NA	0.186	NA	0.225
Total Potassium	--	mg/L	79.8	NA	NA	82.3	NA	84.1	NA	91.8
Dissolved Potassium	--	mg/L	76.1	NA	NA	92.2	NA	84.8	NA	100
Total Sodium	--	mg/L	2,390	NA	NA	2,250	NA	2,250	NA	2,320
Dissolved Sodium	--	mg/L	2,150	NA	NA	2,320	NA	2,270	NA	2,400
Total Dissolved Solids	--	mg/L	7,650	NA	NA	8,560	NA	7,580	NA	6,870
Field Parameters										
Ferrous (II) Iron	--	mg/L	1.5	0.5	0.5	0.0	0.5	0.5	0.5	0.5
Dissolved Oxygen	--	mg/L	0.04	0.08	0.04	0.02	0.03	0.05	0.03	0.02
Oxidation Reduction Potential	--	mV	-355.88	-332.56	-279.25	-339.12	-281.16	-328.38	-332.73	-306.27
pH	--	SU	6.86	6.80	6.89	6.79	6.78	6.80	6.86	6.79
Specific Conductance	--	µS/cm	12782.20	12026.61	13006.33	13809.65	13375.54	13205.98	13128.66	13839.41
Temperature	--	°C	25.12	24.69	24.41	24.82	25.26	25.19	23.92	25.81
Turbidity	--	NTU	0.50	0.15	0.42	0.37	0.43	0.37	0.16	0.28
Arsenic Speciation										
As(III)	--	µg/L	1.5	NA	NA	NA	NA	≤ 0.800	NA	0.294 J
As(V)	--	µg/L	≤ 0.500	NA	NA	NA	NA	≤ 2.00	NA	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 0.250	NA	NA	NA	NA	≤ 1.00	NA	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.200	NA	NA	NA	NA	≤ 0.800	NA	≤ 0.200
Unknown arsenic species	--	µg/L	57.8	NA	NA	NA	NA	26.5	NA	29.1

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Analyte	Groundwater Protection Standard (GWPS)	Unit	Detection Monitoring Well MCM-06							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/28/2024	9/5/2024	9/12/2024	9/17/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024
Primary Performance Monitoring Parameters										
Total Arsenic	0.032	mg/L	0.111	0.110	0.107	0.101	0.099	0.0991	0.117	0.109
Dissolved Arsenic	--	mg/L	0.107	0.125	0.105	0.118	0.103	0.104	0.127	0.105
Total Iron	--	mg/L	< 0.165	0.0442 J	0.0435 J	0.0453 J	0.0590 J	0.0397 J	0.0498 J	< 0.165
Dissolved Iron	--	mg/L	0.0360 J	< 0.165	0.0445 J	< 0.033	0.0462 J	0.0445 J	0.0495 J	< 0.165
Sulfide	--	mg/L	42	42	47	43	67	40	35	36
Sulfate	--	mg/L	348	310	271	296	376	408	385	430
Deuterium (δ2H H2O)	--	‰	11.1 ± 0.4	36.6 ± 1	5.3 ± 0.3	3.9 ± 0.5	8.9 ± 0.1	6.6 ± 0.4	7.2 ± 0.4	8.6 ± 0.1
40 CFR Part 257 Appendix IV - Constituents for Assessment Monitoring										
Total Antimony	0.006	mg/L	< 0.005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dissolved Antimony	--	mg/L	< 0.005	< 0.005	< 0.001	< 0.005	< 0.001	< 0.005	< 0.005	< 0.001
Total Barium	2	mg/L	0.0902	0.0822 J	0.0727	0.0782 J	0.105 J	0.115 J	0.111 J	0.113 J
Dissolved Barium	--	mg/L	0.0907	0.0831 J	0.0776 J	0.0806 J	0.105 J	0.117 J	0.119 J	0.114 J
Total Beryllium	0.021	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Beryllium	--	mg/L	< 0.0002	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.001
Dissolved Boron	--	mg/L	0.696	0.732	0.680	0.750	0.740	0.672	0.735	0.764
Total Cadmium	0.005	mg/L	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Dissolved Cadmium	--	mg/L	< 0.0015	< 0.0015	< 0.0003	< 0.0015	< 0.0003	< 0.0015	< 0.0015	< 0.0003
Total Chromium	0.1	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Dissolved Chromium	--	mg/L	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015
Total Cobalt	0.036	mg/L	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Dissolved Cobalt	--	mg/L	< 0.0003	< 0.0015	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0015
Fluoride	4	mg/L	0.470 HJ	< 0.66	0.392 J	0.594 J	0.488 J	0.476 J	0.415 J	0.501 J
Total Lead	0.015	mg/L	< 0.0025	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Dissolved Lead	--	mg/L	< 0.0005	< 0.0025	< 0.0005	< 0.0025	< 0.0005	< 0.0005	< 0.0025	< 0.0005
Total Lithium	0.049	mg/L	0.0534	0.0531	0.0550	0.0535	0.0549	0.0583	0.0659	0.0708
Dissolved Lithium	--	mg/L	0.0615	0.0555	0.0518	0.0561	0.0550	0.0615	0.0677	0.0719
Total Mercury	0.002	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000760 J	< 0.000067	< 0.000067	< 0.000067
Dissolved Mercury	--	mg/L	< 0.000067	< 0.000067	< 0.000067	< 0.000067	0.0000750 J	< 0.000067	< 0.000067	< 0.000067
Total Molybdenum	0.1	mg/L	< 0.001	0.000906 J	0.000895 J	0.000904 J	0.000969 J	0.000714 J	0.000899 J	0.000912 J
Dissolved Molybdenum	--	mg/L	< 0.001	< 0.001	0.000486 J	< 0.001	0.000366 J	< 0.001	< 0.001	0.000273 J
Total Selenium	0.05	mg/L	< 0.0075	0.00162 J	< 0.0015	< 0.0015	0.00169 J	< 0.0015	< 0.0075	< 0.0015
Dissolved Selenium	--	mg/L	< 0.0075	< 0.0075	0.00172 J	< 0.0075	0.00155 J	0.00171 J	< 0.0075	< 0.0015
Total Thallium	0.002	mg/L	< 0.003	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Dissolved Thallium	--	mg/L	< 0.0006	< 0.003	< 0.0006	< 0.003	< 0.0006	< 0.0006	< 0.003	< 0.0006

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

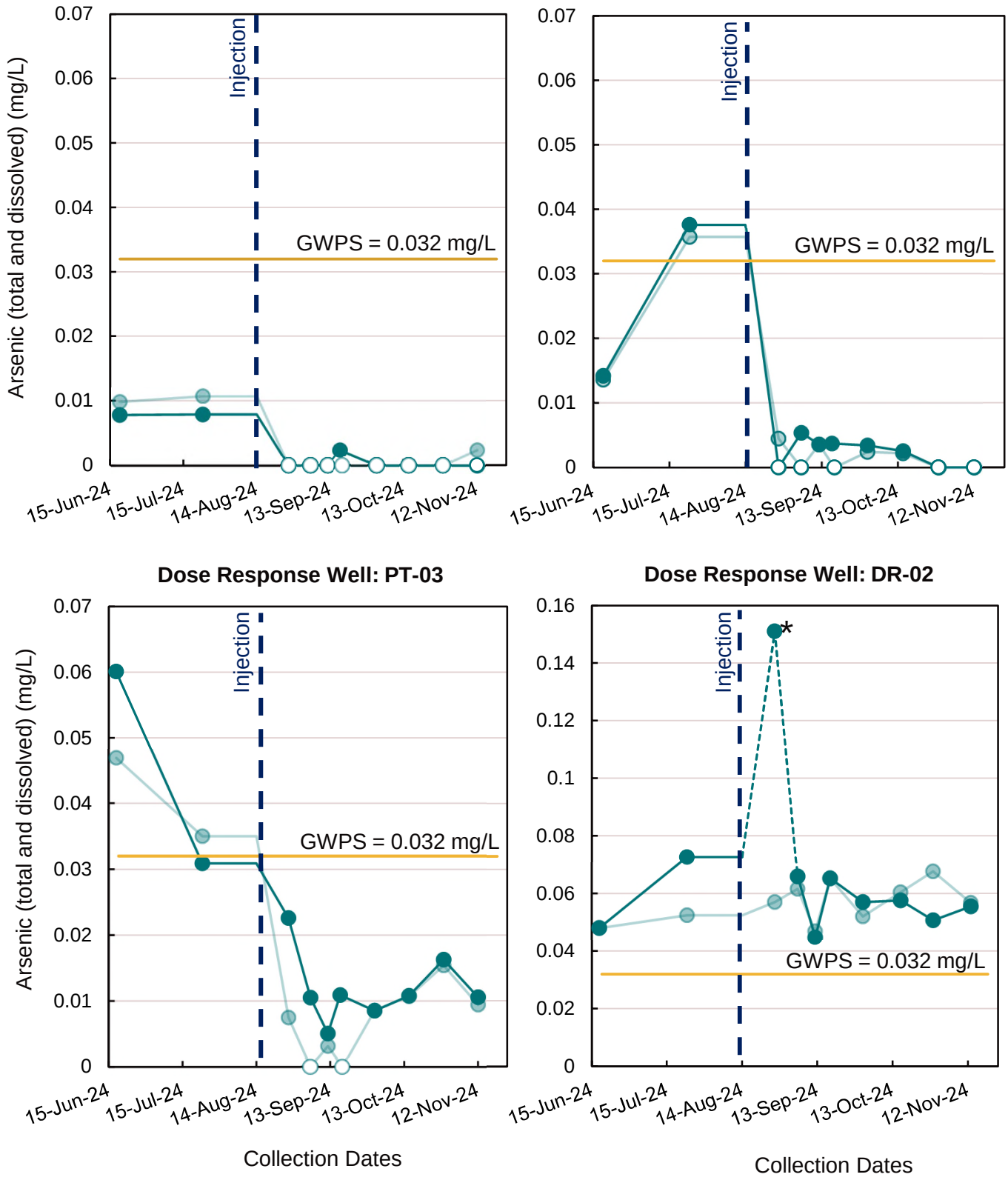
Analyte	Groundwater Protection Standard (GWPS)	Unit	Detection Monitoring Well MCM-06							
			Week 1	Week 2	Week 3	Week 4	Week 6	Week 8	Week 10	Week 12
			8/28/2024	9/5/2024	9/12/2024	9/17/2024	10/1/2024	10/15/2024	10/29/2024	11/12/2024
40 CFR Part 257 Appendix III and Geochemical Parameters										
Total Alkalinity as $CaCO_3$	--	mg/L	305	NA	NA	321	NA	284	NA	310
Total Boron	--	mg/L	0.618	0.751	0.745	0.759	0.679	0.669	0.729	0.770
Total Calcium	--	mg/L	129	NA	134	136	NA	169	NA	201
Dissolved Calcium	--	mg/L	140	NA	NA	145	NA	171	NA	198
Chloride	--	mg/L	3,290	3,250	3,240	3,080	3,370	3,600	3,690	4,040
Total Magnesium	--	mg/L	233	NA	NA	231	NA	290	NA	333
Dissolved Magnesium	--	mg/L	238	NA	NA	250	NA	318	NA	336
Total Manganese	--	mg/L	0.145	NA	NA	0.145	NA	0.186	NA	0.239
Dissolved Manganese	--	mg/L	0.164	NA	NA	0.152	NA	0.194	NA	0.238
Total Potassium	--	mg/L	71.2	NA	NA	76.0	NA	85.3	NA	98.7
Dissolved Potassium	--	mg/L	76.9	NA	NA	86.3	NA	86.0	NA	96.4
Total Sodium	--	mg/L	1,800	NA	NA	1,660	NA	1,890	NA	2,090
Dissolved Sodium	--	mg/L	1,560	NA	NA	1,740	NA	1,980	NA	2,150
Total Dissolved Solids	--	mg/L	5,380	NA	5,340	6,140	NA	6,860	NA	6,250
Field Parameters										
Ferrous (II) Iron	--	mg/L	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.0
Dissolved Oxygen	--	mg/L	0.01	0.06	0.01	-0.02	0.00	0.00	0.00	-0.01
Oxidation Reduction Potential	--	mV	-373.70	-335.43	-254.55	-376.80	-351.54	-230.02	-363.23	-338.91
pH	--	SU	7.12	7.19	7.20	7.19	7.05	7.05	7.07	7.01
Specific Conductance	--	µS/cm	10186.70	8954.69	10135.21	10488.85	11330.38	12020.96	12076.24	12908.05
Temperature	--	°C	24.69	24.32	23.85	25.61	25.58	24.31	23.63	25.12
Turbidity	--	NTU	0.96	0.15	0.27	0.09	0.06	0.47	0.24	0.26
Arsenic Speciation										
As(III)	--	µg/L	0.92 J	NA	NA	0.865 J	NA	0.837 J	NA	0.942 J
As(V)	--	µg/L	≤ 2.00	NA	NA	≤ 2.00	NA	≤ 2.00	NA	≤ 0.500
Dimethylarsinic Acid	--	µg/L	≤ 1.00	NA	NA	≤ 1.00	NA	≤ 1.00	NA	≤ 0.250
Monomethylarsonic Acid	--	µg/L	≤ 0.800	NA	NA	≤ 0.800	NA	≤ 0.800	NA	≤ 0.200
Unknown arsenic species	--	µg/L	134.0	NA	NA	146.0	NA	143.0	NA	163.0

Table 2
Post-injection Performance Monitoring Results
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Notes:
1. Analytical methods are provided in Table 1.
2. Negative dissolved oxygen values are assumed to be zero.
3. "Unknown arsenic species" is the total estimated concentration of any unidentified arsenic-containing species. Previous analytical data evaluating the "Unknown arsenic species" results have demonstrated that these species are thioarsenic species (Arcadis 2024a).
4. The evaluation of 40 CFR Part 257 Appendix IV constituents excludes radium.
5. “J” qualifiers are applied by the laboratory when the reported concentration is above the method detection limit, but below the laboratory reporting limit.

Abbreviations:
< = not detected at or above the laboratory method detection limit.
As(III) = arsenite
As(V) = arsenate
°C = degrees Celsius
$CaCO_3$ = calcium carbonate
H = sample exceeded the specified holding time
J = estimated value (see Note 5)
µg/L = microgram per liter
mg/L = milligram per liter
mV = millivolt
NTU = nephelometric turbidity unit
NA = not analyzed
S.U. = standard units
µS/cm = microSiemen per centimeter
-- = no Groundwater Protection Standard (GWPS) assigned to constituent
‰ = per mil
$\delta^2H\ H_2O$ = delta notation measurement of stable hydrogen isotope concentrations. Results are compared to a known standard (δ^2H_s/δ^1H_s) by the following equation: $\delta^2H\ H_2O = ([(\delta^2H/\delta^1H)\div(\delta^2H_s/\delta^1H_s)]-1)x1000$.
Negative results indicate depletion of the rare isotope compared to standard. Positive results indicate enrichment of the rare isotope compared to standard.

Figures



Legend:

- Total Arsenic
- Dissolved Arsenic

Notes:

1. Detects are plotted with a full circle. Non-detects are plotted with an open circle.
2. The method detection limit is used for non-detects.
3. The GWPS for arsenic is plotted in yellow.

* Particulates observed in water likely affected total arsenic result.

Abbreviations:

GWPS – groundwater protection standard
mg/L – milligrams per liter

GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

TOTAL AND DISSOLVED ARSENIC:
INJECTION AND DOSE RESPONSE WELLS

ARCADIS

FIGURE
1

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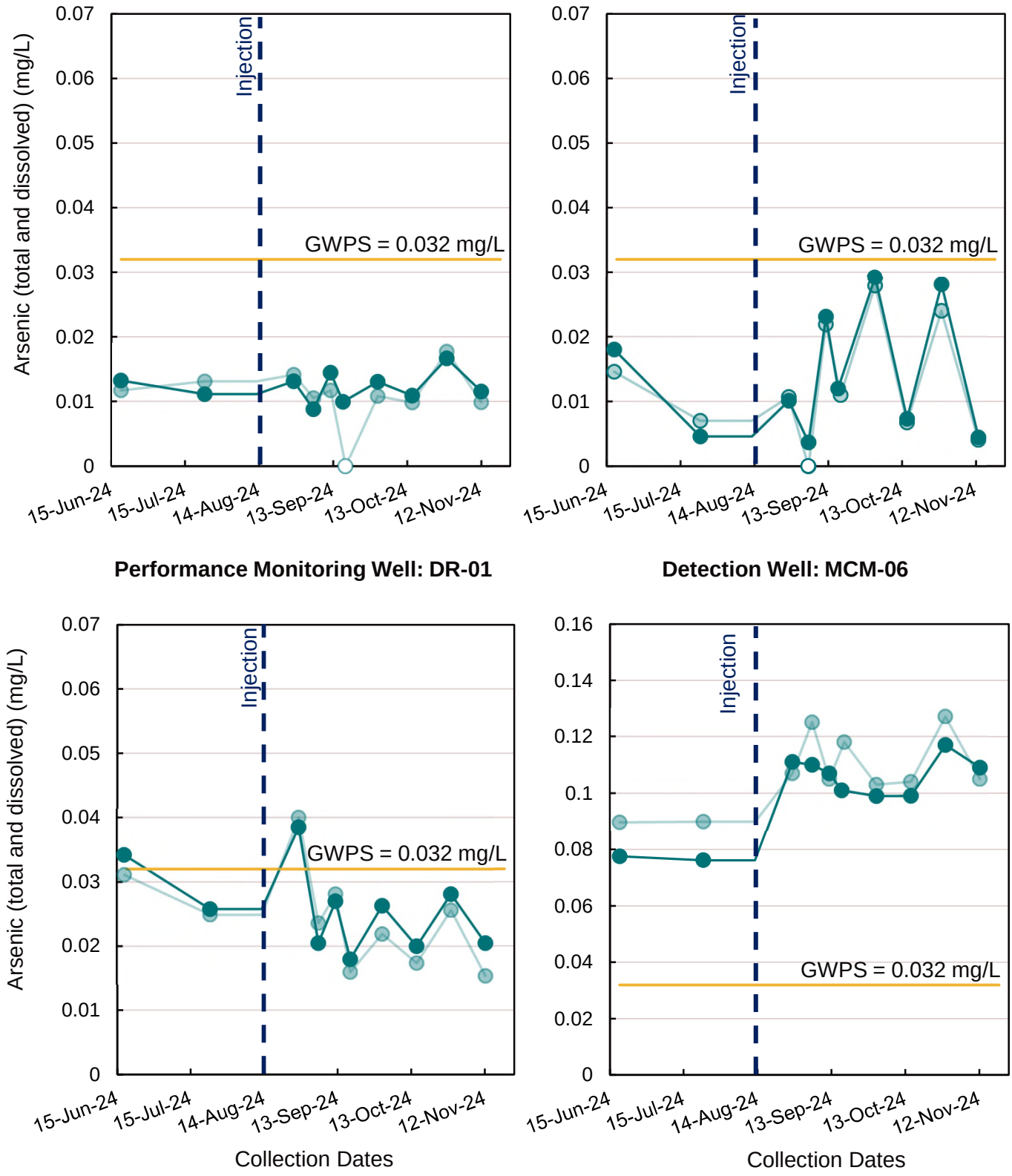

Legend:

- Total Arsenic
- Dissolved Arsenic

Notes:

1. Detects are plotted with a full circle. Non-detects are plotted with an open circle.
2. The method detection limit is used for non-detects.
3. The GWPS for arsenic is plotted in yellow.

Abbreviations:

GWPS – groundwater protection standard
mg/L – milligrams per liter

GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

TOTAL AND DISSOLVED ARSENIC: PERFORMANCE MONITORING AND DETECTION WELLS

ARCADIS

FIGURE
2

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Appendices

Appendix A

Pilot Study Post-Injection Event Report

Pilot Test No. UPT000071

Plant McManus Former Ash Pond 1 (AP-1)

September 27, 2024

Pilot Study Post-Injection Event Report

Plant McManus Former Ash Pond 1 (AP-1)

September 27, 2024

Prepared By:
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GA 30339
Phone: 770 431 8666
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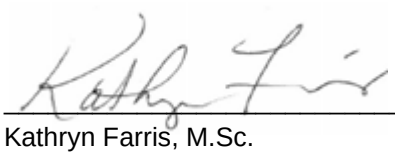
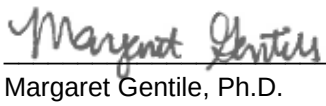
Prepared For:
Georgia Power Company
Brunswick, Georgia
Glynn County

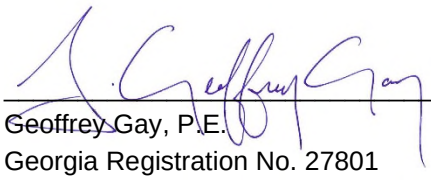
Our Ref:
30180421



Kathryn Farris, M.Sc.
Environmental Engineer



Margaret Gentile, Ph.D.
Technical Expert



Geoffrey Gay, P.E.
Georgia Registration No. 27801
Technical Expert, Vice President

Contents

Certification v
1 Introduction 1
2 Background 1
2.1 Site Description 1
2.2 Pilot Study Area and Historical Groundwater Monitoring 2
3 Fieldwork Summary 2
3.1 Well Installation 2
3.2 Baseline Characterization 2
3.3 Injection 3
3.3.1 Tank and Wellhead Assembly and Testing 3
3.3.2 Reagent Mixing 4
3.3.3 Injection 4
3.3.4 Dose Response Monitoring 5
4 Results 6
4.1 Baseline Sampling 6
4.2 Dose Response Monitoring 6
4.2.1 Visual Observations 6
4.2.2 Field Measurements of Ferrous Iron 6
5 Post Injection Monitoring and Reporting 7
6 References 7

Exhibits

Exhibit 1. Cumulative Volume and Injection Flow Rate 5

Tables

Table 1. Pilot Study Well Network Construction Details

Table 2. Summary of Baseline Groundwater Analytical Data

Table 3. Summary of Daily Injection Volumes

Figures

Figure 1. Location Map

Figure 2. Pilot Study Injection and Performance Monitoring Well Locations

Figure 3. Visual Observations at Dose Response Wells

Figure 4. Ferrous Iron Concentrations at Dose Response Wells

Appendices

Appendix A. GA EPD Approvals

Appendix B. Well Installation Report

Appendix C. Baseline Analytical Laboratory Results and Field Sampling Forms

Appendix D. Injection Field Forms

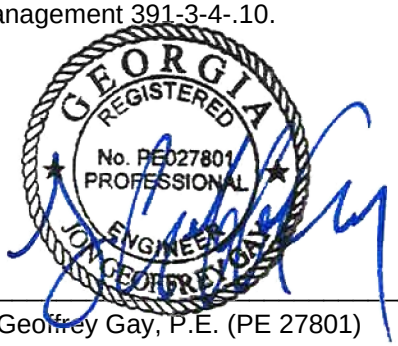
Appendix E. Field Parameter Data

Acronyms and Abbreviations

AP-1	Plant McManus Former Ash Pond 1
Arcadis	Arcadis U.S., Inc.
$CaCO_3$	calcium carbonate
CCR	coal combustion residual
Fe	iron
ferrous chloride	ferrous chloride tetrahydrate
FeS	mackinawite
FeS_2	pyrite
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
g/L	grams per liter
gpm	gallon per minute
GWPS	Groundwater Protection Standard
Injection Work Plan	MCM-06 Pilot Study Work Plan
mg/L	milligram per liter
NELAP	National Environmental Laboratory Accreditation Program
ORP	oxidation-reduction potential
psi	pound per square inch
report	Pilot Study Post-Injection Event Report
site	Georgia Power Plant McManus former Ash Pond 1
SSL	statistically significant level
S.U.	standard units
TDS	total dissolved solids
USEPA	United States Environmental Protection Agency

Certification

I, Geoffrey Gay, am a professional engineer and licensed in the State of Georgia. I hereby certify that this report was prepared by, or under the direct supervision of, a Qualified Groundwater Scientist in accordance with the Georgia Environmental Protection Division Rules of Solid Waste Management. According to 391-3-4-.01, a Qualified Groundwater Scientist is, “a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action.” By affixing my professional seal and signature, I hereby acknowledge that this report has been prepared in conformance with the United States Environmental Protection Agency coal combustion residual rule (40 Code of Federal Regulations 257 Subpart D) and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10.



09-27-2024

J. Geoffrey Gay, P.E. (PE 27801) — Date

Technical Expert (Eng.), Vice President

1 Introduction

Arsenic is present in groundwater at statistically significant levels (SSLs) above the Groundwater Protection Standard (GWPS) of 0.032 milligrams per liter (mg/L) in detection monitoring well MCM-06 at the Georgia Power Plant McManus former Ash Pond 1 (AP-1; the site). In situ injections (ISI) were proposed as the corrective measure for the arsenic SSL in the Draft Remedy Selection Report (Arcadis 2024a) for the site submitted on February 28, 2023. On February 16, 2024, the Georgia Environmental Protection Division (GA EPD) concurred with the initiation of pilot studies for ISI to facilitate further remedial design and a copy of the concurrence letter is provided in **Appendix A**. Georgia Power submitted the MCM-06 Pilot Study Work Plan with an application to conduct an ISI pilot study under the Underground Injection Control (UIC) Program on April 30, 2024 to GA EPD (Injection Work Plan; Arcadis 2024b; GEOS ID 836675). The Watershed Protection Branch deemed the injections acceptable under the UIC program in a letter dated June 26, 2024, included in **Appendix A**. The Land Protection Branch approved the initiation of pilot studies based on review of the work plan in a letter dated August 2, 2024, included in **Appendix A**.

This report provides a summary of ISI pilot study work completed at the site between June 1 and August 20, 2024, including pilot study well installation, baseline sampling activities, and injection activities. Pilot study injections and associated activities detailed herein were conducted under the direction of a qualified groundwater scientist. The work was completed in accordance with the MCM-06 Pilot Study Work Plan (Arcadis 2024b).

2 Background

2.1 Site Description

Plant McManus is an electrical power generation plant located on Crispen Island in Glynn County, near Brunswick, Georgia (**Figure 1**). The physical address of the plant is 1 Crispen Island Drive, Brunswick, Georgia 31523. The plant is separated from the mainland to the northeast by tidal marsh and bound on the west and southwest by the Turtle River.

The plant was originally constructed in 1952 and consisted of two boilers and nine diesel-fired combustion turbines. During operation of the coal-fired units from 1959 until 1972, coal combustion residual (CCR) was disposed in an approximately 80-acre surface impoundment (i.e., AP-1) on the Plant McManus property northeast of the plant.

AP-1 was formed by the construction of a dike from the northeast corner of Crispen Island to the mainland. Closure-related construction activities at AP-1 consisted of closure by removal and included the removal of all visible CCR within the surface impoundment, as well as removal of an additional 6 inches or more of soil below the limits of ash. Closure-related construction activities ended in 2019, and the final CCR removal certification report was submitted in November 2019 (Arcadis 2019). GA EPD acknowledged the report and removal activities within the identified boundaries of AP-1 in a letter dated January 10, 2020 (GA EPD 2020). Closure Permit No. 063-030D(CCR) was issued by GA EPD on June 18, 2021 (GA EPD 2021). Post-removal monitoring is detailed in the GA EPD-approved Groundwater Monitoring Plan (Resolute 2021).

2.2 Pilot Study Area and Historical Groundwater Monitoring

Groundwater monitoring of the surficial aquifer has been performed at AP-1 since 2016 in accordance with the United States Environmental Protection Agency (USEPA) CCR Rule (40 Code of Federal Regulations 257 Subpart D). The groundwater monitoring network consists of detection wells and an assessment well used to monitor groundwater passing the waste boundary of AP-1 within the uppermost aquifer (**Figure 2**). An onsite network of piezometers is used to gauge water levels to define groundwater flow direction and gradients.

An arsenic SSL was identified at detection monitoring well MCM-06 along the northern dike boundary of AP-1 as part of the assessment monitoring program. This SSL has been horizontally and vertically delineated to levels below the GWPS.

3 Fieldwork Summary

Fieldwork activities were conducted between June 1 and August 20, 2024, as summarized in the following sections. Well information is provided in **Table 1**, **Figure 2**, and **Appendix B**. Baseline analytical results are provided in **Table 2** and **Appendix C**. Field information and injection volumes are provided in **Table 3** and **Appendix D**.

A summary of the pilot study objectives, existing geochemical conditions, and reagent selection and removal mechanisms was provided in the Pilot Study Work Plan (Arcadis 2024b).

3.1 Well Installation

One injection well (INW-01) and one dose response well (DR-03) were installed in 2024 for this pilot study and screened at similar depth and lithology to detection monitoring well MCM-06 and in general accordance with the Groundwater Monitoring Plan (Resolute 2021). Exceptions to the design presented in the Groundwater Monitoring Plan are associated with the purpose of the wells (injection and dose response monitoring) in support of the approved Injection Work Plan (Arcadis 2024b). The well locations are shown on **Figure 2** and construction details are provided in **Table 1**.

Well drilling, installation, and surface completion activities were performed by Cascade Drilling, Inc. The boreholes were advanced using rotosonic drilling techniques with continuous core collection and a Terra Sonic compact crawler size track mounted rig. A copy of the Well Installation Report detailing the design, installation, and development of these wells is included in **Appendix B**.

3.2 Baseline Characterization

Prior to injection, baseline groundwater sampling was completed and evaluated along with historical groundwater sample results from the wells previously installed within the MCM-06 area. Groundwater samples and water quality field parameters (i.e., pH, conductivity, dissolved oxygen, temperature, and ORP) were collected using low-flow sampling procedures in accordance with the Groundwater Monitoring Plan (Resolute 2021) and Injection Work Plan (Arcadis 2024b). Samples were submitted for analysis of the following:

- Total and dissolved metals (Appendix IV, boron, iron, manganese, calcium, magnesium, sodium, potassium) (Method 6020B);
- Mercury (Method 7470);
- Sulfide (Method SM 4500);
- Sulfate (Method USEPA 300.0);
- Alkalinity (Method SM 2320B);
- Chloride (Method SM 4500);
- Total dissolved solids (TDS; Method SM 2540);
- Deuterium (Isotope Ratio Mass Spectrometry); and
- Arsenic Speciation.

Groundwater samples were placed in ice-packed coolers and submitted to GEL Laboratories LLC for analysis, except for deuterium, arsenic speciation, and sulfide, which were evaluated by Isotope Tracer Technologies, Brook Applied Laboratories, and Eurofins, respectively. GEL Laboratories LLC and Eurofins are accredited by the National Environmental Laboratory Accreditation Program (NELAP) and maintain NELAP certifications for the constituents and geochemical parameters analyzed for this project.

The results for the June and July baseline sampling events are presented in **Table 2**. The analytical laboratory results and field sampling and equipment calibration forms are provided in **Appendix C**.

3.3 Injection

Injection activities were performed between August 13 and 20, 2024 by Cascade Drilling, Inc. with technical supervision conducted by Arcadis.

3.3.1 Tank and Wellhead Assembly and Testing

Injection solution was batch mixed in and injected from a 550-gallon tank, located within secondary containment on top of an injection trailer to elevate the tank and improve injection under gravity feeding conditions. The bottom of the tank was approximately 3 feet above ground surface. Piping from the outlet of the tank was constructed with valves to allow for the tank to gravity feed or for the injection line to be pressurized with a pump, if needed. The piping was connected to the wellhead assembly via a 1-inch diameter rubber hose with camlock connections.

The wellhead assembly was constructed with a meter run and a standpipe. The meter run was equipped with a flow control valve, a 1/2-inch digital flow meter capable of sub-gallon per minute accuracy, straight piping before and after the flow meter to minimize turbulence, and a 0 to 10 pound per square inch (psi) pressure gauge. The wellhead was fitted with a separate standpipe taller than the highest point of the mixing tank, approximately 5 feet tall to allow for release of air in the piping and casing as injections are started and was valved at the top to be closed after the air is released.

Prior to injecting the solution, approximately 50 gallons of potable water were injected to test the system for leaks. Once the system was confirmed to be free from leaks, injection of the ferrous chloride solution commenced.

3.3.2 Reagent Mixing

The injection solution consisted of a mixture of ferrous chloride, tracer (deuterated water), and potable water from an onsite source designated in the Injection Work Plan (Arcadis 2024b). Ferrous chloride was shipped to the site as a solid from ProChem Inc. A solution of 0.2% weight for weight iron (Fe) and 0.037% tracer was prepared and introduced into the injection well. Solution volume and reagent amounts by batch and measured solution field parameters are provided in the Injection Solution Log in **Appendix D**. Sodium bicarbonate was available onsite to adjust the pH prior to injection but was not needed given that the as-mixed solution pH was between 5.10 and 6.00. Mixing was achieved by circulating water with a pump equipped with a stinger to limit oxygen exposure to the injection solution, which can result in solution oxidation and precipitate formation.

3.3.3 Injection

To begin injection, the valves from the tank through the wellhead were opened, allowing the injection solution from the tank to gravity feed into injection well INW-01. Following the first day of injection activities, the injection batch size was reduced from 500 gallons to 250 gallons to minimize ferrous chloride oxidation and precipitate formation that was observed in the first 500 gallon batch. The reduction to a 250-gallon batch worked well to reduce the amount of precipitation. At the end of each day, a 50-gallon batch of potable water was added to the injection well to clear the injection well of reagent.

Injection solution flow rate, cumulative injected volume, and observed wellhead pressure were monitored and recorded once every hour for the duration of the injection. Field forms are included in the Injection Field Test Log in **Appendix D**. A summary of daily injected volumes is included in **Table 3**. The daily maximum injection volume was below the value included in the Pilot Test Notification Form (3,000 gallons per day). Water levels in nearby performance monitoring wells were measured throughout injection activities and are provided in the Dose Response Monitoring Logs in **Appendix D**.

A total of 4,329 gallons of injection solution were introduced at INW-01 over seven days of injection. Injection flow rate over this time decreased from an initial maximum flow rate of 5.5 gallons per minute (gpm) to a final flow rate of 1.1 gpm (**Exhibit 1**). Wellhead pressure remained below 1 psi for the duration of the injection, which was well below the limit of 5 psi presented in the Pilot Test Notification Form. The decrease in flowrate over time was likely caused by precipitates clogging the well screen and filter pack. The flowrates and pressures achieved the objective of determining these design parameters and demonstrated injections are readily implementable at the site. Despite the decrease in flowrate, a sufficient volume was injected to observe arrival at dose response wells and for the determination of additional design parameters, as discussed in Section 4.3.4 and 5.2.

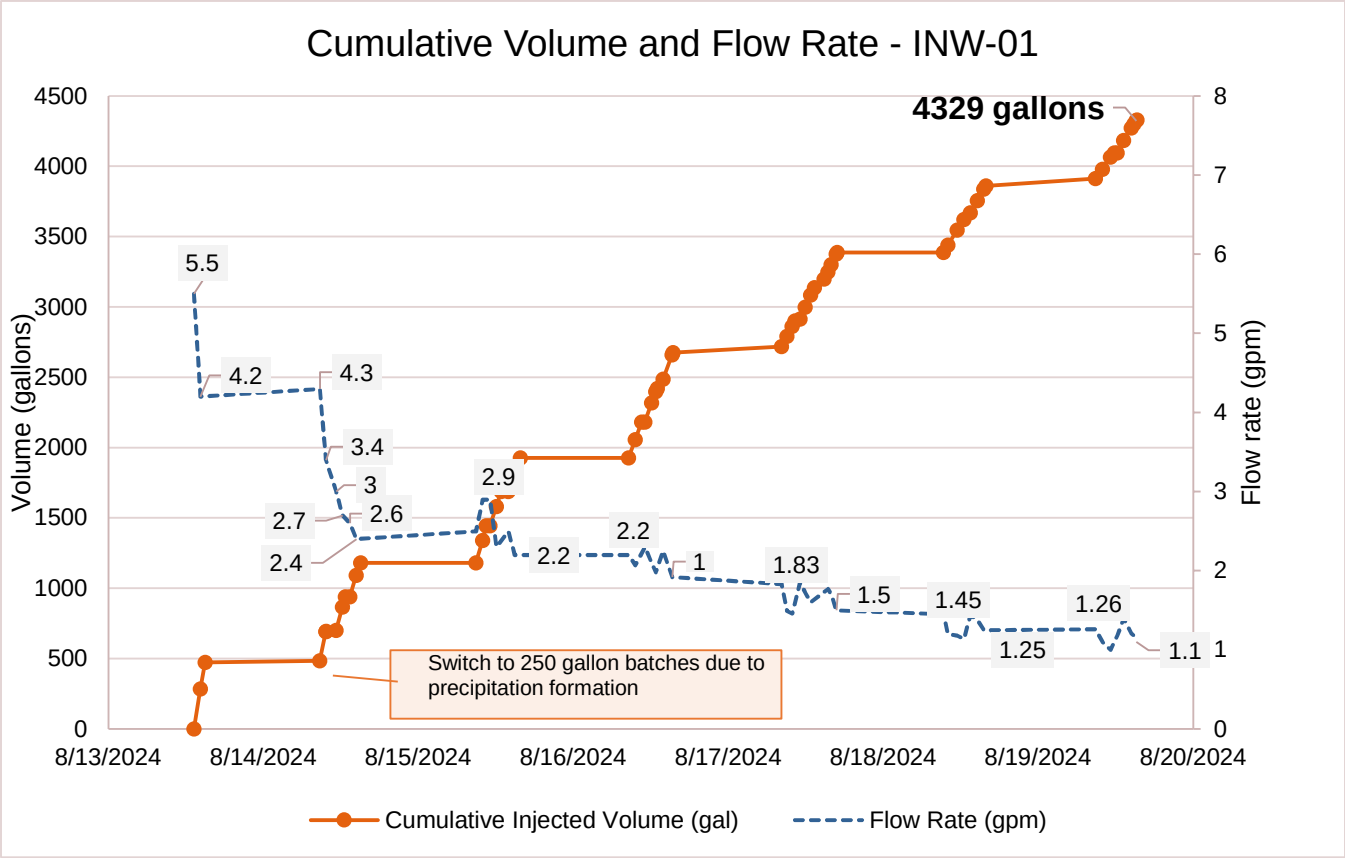


Exhibit 1. Cumulative Volume and Injection Flow Rate

3.3.4 Dose Response Monitoring

Real-time sampling and monitoring was conducted during injections at dose-response wells DR-02, DR-03, and PT-03 to achieve the following objectives:

- Confirm distribution of injected reagent solution and reagent.
- Develop breakthrough curves of injection solution to evaluate mobile porosity for full-scale design.

Field parameters (i.e., pH, dissolved oxygen, turbidity, ORP, specific conductivity, and temperature) were recorded every 5 feet across the screen interval of each dose response monitoring well (at 2.5 feet, 7.5 feet, and 12.5 feet for 15-foot screens). In addition, multi-parameter sondes were placed in the dose-response wells in the middle of the well screen (7.5 feet below the top of the well screen). Plots of the data collected from the sondes is included in **Appendix E**. These data, in conjunction with the deuterium analytical data and iron data, will be used to evaluate injection solution breakthrough and the injection volume-distribution radius relationship at the site, and to determine the design parameter mobile porosity. The data will also be evaluated to understand tidal influences on the injection distribution and effectiveness. The data analysis will be provided in the comprehensive pilot study technical memorandum at completion of the study.

Samples were collected from each dose-response location at least every 10-percent of target volume and from other performance monitoring wells at least once a day during injections. Sampling consisted of:

- Recording depth to water before purging.
- Performing a line purge, accounting for current depth to water and volume in sample tubing.
- Collecting a laboratory sample for iron and deuterium analysis. Arsenic was also evaluated for the first and final samples collected during the injection dose response monitoring program. Field parameters and a ferrous iron Hach kit analysis were also completed at time of laboratory sample collection and logged in the Dose Response Monitoring Logs provided in **Appendix D**. A subset of these were submitted for analysis based on field parameter readings.
- Visual observations were also recorded during sample collection.

4 Results

Results of the injection study are summarized in the following sections.

4.1 Baseline Sampling

Results from baseline sampling events are summarized in Table 2 and were generally consistent with previous results.

4.2 Dose Response Monitoring

As presented in Section 3.3.4, dose response monitoring was performed to confirm distribution of injected reagent solution and reagent and develop breakthrough curves of injection solution to evaluate mobile porosity for full-scale design. This section primarily discusses the visual observations recorded during sampling and the field measurements of ferrous iron, both of which indicate arrival of injected water and reagent at dose response wells during the injections. Field parameter data (i.e., specific conductivity, pH, ORP, and water depth) included in **Appendix E** and will be discussed in further detail in the next report in conjunction with upcoming analytical data results.

4.2.1 Visual Observations

Visual observations were recorded during sampling. A fine black precipitate was observed, first at the closest dose response monitoring well DR-03, then the next closest dose response monitoring well PT-03, and finally to a lesser extent at the furthest dose response monitoring well DR-02. **Figure 3** shows the sample bottles collected over time and with increasing injection volume at each of these locations. The appearance of the black precipitate can be seen in the arrays of sample bottles. The precipitate was initially black and, in some cases, turned rust colored following exposure to oxygen. The precipitate was collected and has been submitted for analysis of energy dispersive spectrometry and scanning electron microscopy for confirmation.

4.2.2 Field Measurements of Ferrous Iron

Ferrous iron samples were collected and analyzed with a Hach kit in the field at the same time as laboratory sample collection and the concentration measured with Hach kits were recorded in the Dose Response Monitoring Logs provided in **Appendix D**. Samples were collected from all three dose response wells (DR-02,

DR-03, and PT-03). Ferrous iron in DR-03 and PT-03 steadily increased over the course of the injection event. DR-03 showed the strongest response with concentrations increasing to 7.5 mg/L at the end of the injection of 4,329 gallons. Ferrous iron in PT-03 increased to 2.5 mg/L after the injection of the same volume, though there were two spikes in the middle of the injection event measuring 6 and 7 mg/L (at 2,675 and 3,386 gallons, respectively). Ferrous iron concentrations increased to 0.5 mg/L in groundwater at DR-02 after the injection of 4,329 gallons. Ferrous iron concentrations will be considered in conjunction with field parameters and laboratory analytical data to provide a comprehensive arrival analysis in the pilot study technical memorandum prepared at the completion of the study.

5 Post Injection Monitoring and Reporting

The purpose of post-injection performance monitoring is to evaluate the efficacy of the injection for arsenic removal from groundwater and the longevity of the performance of the injections and potential downgradient effects over an extended period. With iron injections, the primary indicators of effectiveness and longevity are:

- Decreasing arsenic concentrations to below the GWPS at dose-response wells;
- Measurable concentrations of iron in solution at dose-response wells over time (to verify field measurements); and
- Reduction in sulfide concentrations in wells.

In addition, dose response and performance monitoring wells will be monitored to evaluate:

- Arsenic treatment outside of the influence of injections at performance monitoring wells; and
- Any substantial increases in Appendix IV parameters greater than the GWPS due to injections at dose response and performance monitoring wells.

Post-injection performance monitoring was initiated on August 26, 2024, and will continue weekly for the first month, biweekly for the next two months, and at 6 months and 9 months at dose-response wells DR-02, DR-03, PT-03, and performance monitoring wells PT-01, PT-02, DR-01, and detection monitoring well MCM-06.

Updates concerning the pilot study results will be reported to the GA EPD Solid Waste Management Program as brief summaries included as part of semiannual groundwater monitoring and corrective action reporting. Links to these reports will be emailed to the GA EPD Wastewater Regulatory Program. A comprehensive technical memorandum will be prepared at the conclusion of the pilot study as a standalone report.

6 References

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Tables

Table 1
Pilot Study Well Network Construction Details
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Well ID	Well Purpose	Installation Status	Northing[a] (feet NAD 83)	Easting[a] (feet NAD 83)	Top of Casing Elevation (feet NAVD 88)	Ground Surface Elevation[b] (feet NAVD 88)	Total Depth (feet BTOC)	Top of Screen Elevation (feet NAVD 88)	Bottom of Screen Elevation (feet NAVD 88)	Screened Length (feet)
INW-01	Injection Well	installed for pilot	444418.01	850792.41	7.18	7.50	31.05	-8.45	-23.5	15
DR-02	Dose Response Well	existing location	444411.68	850784.46	7.49	7.90	30.59	-8.10	-23.10	15
PT-03		existing location	444418.92	850785.95	7.45	7.93	24.72	-7.27	-17.27	10
DR-03		installed for pilot	444422.02	850792.49	7.40	7.65	31.50	-8.25	-23.25	15
PT-01	Performance Monitoring Well	existing location	444408.70	850768.53	7.49	7.82	24.67	-7.18	-17.18	10
PT-02		existing location	444414.19	850777.91	7.64	7.91	24.73	-6.59	-16.59	10
DR-01		existing location	444407.62	850777.93	7.58	7.86	30.72	-8.14	-23.14	15
MCM-06		existing location	444407.22	850782.11	10.15	7.87	27.20	-6.27	-16.27	10

Notes:
[a] Measured in Georgia State Plane - North American Datum of 1983 (NAD 83) East Zone.
[b] Ground surface was measured at the mag nail in the concrete pad.
BTOC = below top of casing
NAVD 88 = North American Vertical Datum of 1988

Table 2
Summary of Baseline Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Parameter Group	Constituent	Unit	Injection Well		Dose Response Wells					
			INW-01	INW-01	DR-02	DR-02	PT-03	PT-03	DR-03	DR-03
		Date	6/19/2024	7/23/2024	6/18/2024	7/23/2024	6/18/2024	7/23/2024	6/19/2024	7/23/2024
Metals	Antimony	mg/L	<0.00100	NA	<0.00100	NA	<0.00100	NA	<0.00100	NA
	Antimony, Dissolved	mg/L	<0.00100	NA	<0.00100	NA	<0.00100	NA	<0.00100	NA
	Arsenic	mg/L	0.0078	0.00789 J	0.0482	0.0726	0.0601	0.0309	0.0142	0.0376
	Arsenic, Dissolved	mg/L	0.0098	0.0107	0.0481	0.0525	0.0469	0.0350	0.0136	0.0357
	Barium	mg/L	0.2820	NA	0.0703	NA	0.3560	NA	0.0229	NA
	Barium, Dissolved	mg/L	0.3040	NA	0.0752	NA	0.3510	NA	0.0231	NA
	Beryllium	mg/L	<0.000200	NA	<0.000200	NA	<0.000200	NA	<0.000200	NA
	Beryllium, Dissolved	mg/L	<0.000200	NA	<0.000200	NA	<0.000200	NA	<0.000200	NA
	Boron	mg/L	0.5190	NA	0.8300	NA	0.5720	NA	0.8780	NA
	Boron, Dissolved	mg/L	0.5180	NA	0.8080	NA	0.5960	NA	0.8800	NA
	Cadmium	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
	Cadmium, Dissolved	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
	Calcium	mg/L	234	250	88.3	102	156	186	57.9	64
	Calcium, Dissolved	mg/L	222	239	87.7	105	165	181	57.1	63.9
	Chromium	mg/L	<0.00300	NA	<0.00300	NA	<0.00300	NA	<0.00300	NA
	Chromium, Dissolved	mg/L	<0.00300	NA	<0.00300	NA	0.0173	NA	<0.00300	NA
	Cobalt	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
	Cobalt, Dissolved	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
	Iron	mg/L	0.709	2.67	0.967	3.99	1.71	0.927	0.116	0.252
	Iron, Dissolved	mg/L	0.553	2.04	0.237	0.163	0.925	0.833	0.0657 J	0.106
	Lead	mg/L	<0.000500	NA	<0.000500	NA	<0.000500	NA	<0.000500	NA
	Lead, Dissolved	mg/L	<0.000500	NA	<0.000500	NA	<0.000500	NA	<0.000500	NA
	Lithium	mg/L	0.0258	NA	0.0400	NA	0.0256	NA	0.0402	NA
	Lithium, Dissolved	mg/L	0.0261	NA	0.0408	NA	0.0256	NA	0.0400	NA
	Magnesium	mg/L	314	330	144	169	218	270	96.9	108
	Magnesium, Dissolved	mg/L	288	312.0	143	174	234	266	95.7	108
	Manganese	mg/L	0.238	0.184	0.084	0.11	0.106	0.121	0.147	0.112
	Manganese, Dissolved	mg/L	0.244	0.2	0.084	0.1	0.105	0.1	0.147	0.1
	Mercury	mg/L	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA
	Mercury, Dissolved	mg/L	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA

Table 2
Summary of Baseline Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Parameter Group	Constituent	Unit	Injection Well		Dose Response Wells					
			INW-01	INW-01	DR-02	DR-02	PT-03	PT-03	DR-03	DR-03
		Date	6/19/2024	7/23/2024	6/18/2024	7/23/2024	6/18/2024	7/23/2024	6/19/2024	7/23/2024
Metals	Molybdenum	mg/L	0.000475 J	NA	0.000792 J	NA	0.000706 J	NA	0.000468 J	NA
	Molybdenum, Dissolved	mg/L	<0.000200	NA	0.000505 J	NA	0.00062 J	NA	0.000306 J	NA
	Potassium	mg/L	83.6	90.4	59.2	62.7	64.0	78.7	50.7	53.3
	Potassium, Dissolved	mg/L	79.9	85.4	57.8	64.4	67.4	77.0	50.2	51.9
	Selenium	mg/L	0.00158 J	NA	<0.00150	NA	<0.00150	NA	<0.00150	NA
	Selenium, Dissolved	mg/L	0.00205 J	NA	<0.00150	NA	<0.00150	NA	<0.00150	NA
	Sodium	mg/L	2,390	2,620	1,490	1,430	1,750	1,990	1,260	1,220
	Sodium, Dissolved	mg/L	2,220	2,550	1,440	1,550	1,810	2,020	1,260	1,270
	Thallium	mg/L	<0.000600	NA	<0.000600	NA	<0.000600	NA	<0.000600	NA
	Thallium, Dissolved	mg/L	<0.000600	NA	<0.000600	NA	<0.000600	NA	<0.000600	NA
Field Parameters	Depth to Water	ft	6.20	4.16	5.76	5.19	5.92	4.24	6.35	4.89
	Turbidity	NTU	0.35	1.32	0.27	0.41	2.43	2.55	1.93	1.58
	Dissolved Oxygen	mg/L	0.053	0.079	0.043	0.276	0.035	0.091	0.010	0.068
	Specific Conductivity	µS/cm	14,231	15,302	8,670	9,036	11,243	12,086	7,145	7,104
	pH	S.U.	6.66	6.64	7.21	7.20	6.47	6.50	7.53	7.50
	ORP	mV	-194.1	-265.0	-202.0	-252.6	-58.2	-264.1	-271.6	-328.7
	Temperature	°C	25.6	26.4	24.6	24.4	24.8	25.4	25.3	28.7
Geochemical Parameters	Total alkalinity as $CaCO_3$	mg/L	231	203	318	294	215	192	343	334
	Bicarbonate alkalinity as $CaCO_3$	mg/L	231	203	318	294	215	192	339	321
	Carbonate alkalinity as $CaCO_3$	mg/L	<0.725	<0.725	<0.725	<0.725	<0.725	<0.725	4.0	13.0
	Chloride	mg/L	4,710	4,930	2,400	2,840	3,390	3,970	1,880	2,090
	Fluoride	mg/L	<0.165	NA	0.488 J	NA	0.287 J	NA	0.366 J	NA
	Sulfate	mg/L	556	657	320	285	425	493	268	242
	Sulfide	mg/L	13	14	26	33	12	18	15	31
	Total Dissolved Solids	mg/L	7,990	9,320	4,740	4,990	6,060	6,880	4,010	3,860
	$\delta^{18}O$ H_2O	‰	1.33	NA	1.33	NA	1.57	NA	1.06	NA
	$\delta^{2}H$ H_2O	‰	8.7	NA	8.1	NA	9.9	NA	6.4	NA
Arsenic Speciation	As(III)	µg/L	<0.800 J	NA	<0.800 J	NA	4.20 J	NA	<0.800 J	NA
	As(V)	µg/L	<2.00 J	NA	<2.00 J	NA	<2.00 J	NA	<2.00 J	NA
	Dimethylarsinic Acid	µg/L	<1.00 J	NA	<1.00 J	NA	<1.00 J	NA	<1.00 J	NA
	Monomethylarsonic Acid	µg/L	<0.800 J	NA	<0.800 J	NA	<0.800 J	NA	<0.800 J	NA
	Unknown Arsenic species	µg/L	2.76 J	NA	66.2 J	NA	81.0 J	NA	13.5 J	NA

Table 2
Summary of Baseline Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Parameter Group	Constituent	Unit	Performance Monitoring Wells						Detection Monitoring Well	
			PT-01	PT-01	PT-02	PT-02	DR-01	DR-01	MCM-06	MCM-06
		Date	6/19/2024	7/23/2024	6/18/2024	7/23/2024	6/18/2024	7/23/2024	6/19/2024	7/23/2024
Metals	Antimony	mg/L	<0.00100	NA	<0.00100	NA	<0.00100	NA	<0.00100	NA
	Antimony, Dissolved	mg/L	<0.00100	NA	<0.00100	NA	<0.00100	NA	<0.00100	NA
	Arsenic	mg/L	0.0132	0.0111	0.0180	0.00458 J	0.0342	0.0258	0.0776	0.0762
	Arsenic, Dissolved	mg/L	0.0117	0.0131	0.0146	0.00703 J	0.0311	0.0249	0.0897	0.0900
	Barium	mg/L	0.7250	NA	0.5170	NA	0.2580	NA	0.0528	NA
	Barium, Dissolved	mg/L	0.6710	NA	0.4980	NA	0.2410	NA	0.0560	NA
	Beryllium	mg/L	<0.000200	NA	<0.000200	NA	<0.000200	NA	<0.000200	NA
	Beryllium, Dissolved	mg/L	<0.000200	NA	<0.000200	NA	<0.000200	NA	<0.000200	NA
	Boron	mg/L	0.6570	NA	0.5390	NA	0.6370	NA	0.6450	NA
	Boron, Dissolved	mg/L	0.6650	NA	0.5540	NA	0.6430	NA	0.6760	NA
	Cadmium	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
	Cadmium, Dissolved	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
	Calcium	mg/L	169	187	142	176	126	157	85.3	116
	Calcium, Dissolved	mg/L	170	181	151	176	129	160	87.9	114
	Chromium	mg/L	<0.00300	NA	<0.00300	NA	<0.00300	NA	<0.00300	NA
	Chromium, Dissolved	mg/L	<0.00300	NA	<0.00300	NA	<0.00300	NA	<0.00300	NA
	Cobalt	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
	Cobalt, Dissolved	mg/L	<0.000300	NA	<0.000300	NA	<0.000300	NA	<0.000300	NA
	Iron	mg/L	0.244	0.213	1.98	3.58	0.514	0.439	0.0721 J	0.0385 J
	Iron, Dissolved	mg/L	0.148	0.312	1.89	3.62	0.319	0.410	0.0661 J	0.146
	Lead	mg/L	<0.000500	NA	<0.000500	NA	<0.000500	NA	<0.000500	NA
	Lead, Dissolved	mg/L	<0.000500	NA	<0.000500	NA	<0.000500	NA	<0.000500	NA
	Lithium	mg/L	0.0237	NA	0.0191	NA	0.0358	NA	0.0391	NA
	Lithium, Dissolved	mg/L	0.0226	NA	0.0181	NA	0.0344	NA	0.0412	NA
	Magnesium	mg/L	228	267	207	262	210	270	150	207
	Magnesium, Dissolved	mg/L	231	260	219	257	216	277	154	207
	Manganese	mg/L	0.285	0.278	0.357	0.394	0.155	0.185	0.096	0.139
	Manganese, Dissolved	mg/L	0.265	0.3	0.339	0.4	0.142	0.2	0.102	0.1
	Mercury	mg/L	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA
	Mercury, Dissolved	mg/L	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA	<0.0000670	NA

Table 2
Summary of Baseline Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Parameter Group	Constituent	Unit	Performance Monitoring Wells						Detection Monitoring Well	
			PT-01	PT-01	PT-02	PT-02	DR-01	DR-01	MCM-06	MCM-06
		Date	6/19/2024	7/23/2024	6/18/2024	7/23/2024	6/18/2024	7/23/2024	6/19/2024	7/23/2024
Metals	Molybdenum	mg/L	0.000619 J	NA	0.000531 J	NA	0.000624 J	NA	0.000894 J	NA
	Molybdenum, Dissolved	mg/L	0.000358 J	NA	0.000249 J	NA	0.000424 J	NA	0.000389 J	NA
	Potassium	mg/L	71.8	85.1	61.9	73.5	66.9	78.1	59.3	69.7
	Potassium, Dissolved	mg/L	72.1	78.9	63.7	71.3	67.8	78.7	61.4	70.0
	Selenium	mg/L	<0.00150	NA	<0.00150	NA	<0.00150	NA	<0.00150	NA
	Selenium, Dissolved	mg/L	<0.00150	NA	<0.00150	NA	<0.00150	NA	<0.00150	NA
	Sodium	mg/L	1,740	1,930	1,570	1,820	1,730	1,930	1,260	1,380
	Sodium, Dissolved	mg/L	1,720	1,900	1,660	1,860	1,740	2,060	1,250	1,430
	Thallium	mg/L	<0.000600	NA	<0.000600	NA	<0.000600	NA	<0.000600	NA
	Thallium, Dissolved	mg/L	<0.000600	NA	<0.000600	NA	<0.000600	NA	<0.000600	NA
Field Parameters	Depth to Water	ft	5.12	5.23	6.01	4.30	5.90	4.28	7.65	7.44
	Turbidity	NTU	0.29	0.17	0.36	0.86	0.12	0.21	0.04	0.07
	Dissolved Oxygen	mg/L	0.059	0.063	0.042	0.032	0.057	0.047	0.026	0.008
	Specific Conductivity	µS/cm	11,265	11,630	10,311	10,754	10,805	11,273	7,884	8,561
	pH	S.U.	6.61	6.74	6.47	6.45	6.82	6.87	7.12	7.08
	ORP	mV	-245.2	-291.3	-317.9	-232.0	-296.9	-313.6	-127.5	-353.3
	Temperature	°C	24.7	25.0	24.8	28.3	23.7	26.2	24.2	27.3
Geochemical Parameters	Total alkalinity as $CaCO_3$	mg/L	232	235	222	183	259	240	309	284
	Bicarbonate alkalinity as $CaCO_3$	mg/L	232	235	222	183	259	240	309	284
	Carbonate alkalinity as $CaCO_3$	mg/L	<0.725	<0.725	<0.725	<0.725	<0.725	<0.725	<0.725	<0.725
	Chloride	mg/L	3,570	4,020	3,140	3,740	3,210	3,920	2,180	2,800
	Fluoride	mg/L	0.283 J	NA	0.289 J	NA	0.33 J	NA	0.439 J	NA
	Sulfate	mg/L	454	452	379	460	399	467	269	293
	Sulfide	mg/L	13	22	16 J	13	22	26	31	42
	Total Dissolved Solids	mg/L	6,380	6,730	5,610	6,490	5,980	7,200	4,360	4,960
	$\delta^{18}O$ H_2O	‰	1.49	NA	1.51	NA	1.52	NA	1.69	NA
	$\delta^{2}H$ H_2O	‰	9.5	NA	9.8	NA	9.3	NA	9.9	NA
Arsenic Speciation	As(III)	µg/L	<0.800 J	NA	<0.800 J	NA	1.36 J	NA	0.928 J	NA
	As(V)	µg/L	<2.00 J	NA	<2.00 J	NA	<2.00 J	NA	<2.00 J	NA
	Dimethylarsinic Acid	µg/L	<1.00 J	NA	<1.00 J	NA	<1.00 J	NA	<1.00 J	NA
	Monomethylarsonic Acid	µg/L	<0.800 J	NA	<0.800 J	NA	<0.800 J	NA	<0.800 J	NA
	Unknown Arsenic species	µg/L	8.48 J	NA	19.7 J	NA	35.9 J	NA	121 J	NA

Table 2
Summary of Baseline Groundwater Analytical Data
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Notes:

1. Lowflow sampling protocols were completed for baseline sampling. The last reading recorded prior to sampling at each well is reflected in this table.
2. Analytical methods include: total and dissolved metals (EPA 6020B, EPA 7470A for mercury), arsenic speciation (IC-ICP-CRC-MS), alkalinity (SM 2320B), sulfide (SM 4500-S2D), anions (EPA 300.0), total dissolved solids (SM2540C).
3. "Unknown arsenic species" is the total estimated concentration of any unidentified arsenic-containing species. Previous analytical data evaluating the "Unknown arsenic species" results have demonstrated that these species are thioarsenic species (Arcadis 2024a).
4. Arsenic speciation samples arrived at laboratory at a temperature of 7.5 °C, slightly greater than the recommended temperature (6 °C). Results are estimated.

Abbreviations:

< = not detected at or above method detection limit
As(III) = arsenite
As(V) = arsenate
°C = degrees Celsius
$CaCO_3$ = calcium carbonate
ft = feet
J = estimated value
mg/L = milligram per liter
mV = millivolt
NTU = nephelometric turbidity unit
NA = not analyzed
ORP = oxidation-reduction potential
S.U. = standard units
µS/cm = microSiemen per centimeter
‰ = per mil

$\delta^{18}O\ H_2O$ = delta notation measurement of stable oxygen isotope concentrations. Results are compared to a known standard ($\delta^{18}O_s/\delta^{16}O_s$) by the following equation: $\delta^{18}O\ H_2O = ([(\delta^{18}O/\delta^{16}O)\div(\delta^{18}O_s/\delta^{16}O_s)]-1)x1000$. Negative results indicate depletion of the rare isotope compared to standard. Positive results indicate enrichment of the rare isotope compared to standard.

$\delta^{2}H\ H_2O$ = delta notation measurement of stable hydrogen isotope concentrations. Results are compared to a known standard ($\delta^{2}H_s/\delta^{1}H_s$) by the following equation: $\delta^{2}H\ H_2O = ([(\delta^{2}H/\delta^{1}H)\div(\delta^{2}H_s/\delta^{1}H_s)]-1)x1000$. Negative results indicate depletion of the rare isotope compared to standard. Positive results indicate enrichment of the rare isotope compared to standard.

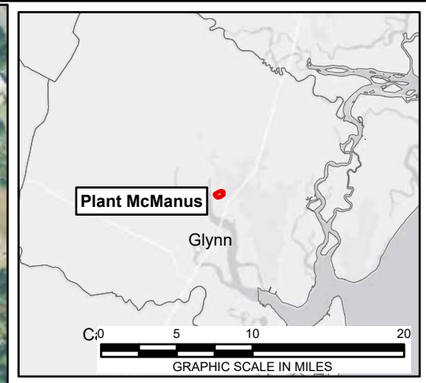
Table 3
Summary of Daily Injection Volumes
Georgia Power Company
Plant McManus Former Ash Pond 1
Brunswick, Georgia

Date	INW-01	
	Injection Solution (gallons)	Potable Water/Clean Wash (gallons)
8/13/2024	--	Initial Leak Test - 50
8/13/2024	472	50
8/14/2024	709	50
8/15/2024	746	50
8/16/2024	748	50
8/17/2024	711	50
8/18/2024	475	50
8/19/2024	468	50
Summary	**4,329**	**400**

Notes:

1. At the close of each day, 50 gallons of potable water were used to rinse the injection well to limit precipitate formation.

Figures



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- CCR PERMITTED BOUNDARY

NOTE:
1. CCR - COAL COMBUSTION RESIDUALS

0 650 1,300

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA EAST FIPS 1001 FEET

Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

LOCATION MAP

ARCADIS

FIGURE
1

LEGEND

- PIEZOMETER
- DETECTION WELL
- ASSESSMENT WELL
- INJECTION WELL

0 10 20

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATE PLANE
GEORGIA EAST FIPS 1001 FEET
IMAGERY FROM MCMANUS DRONE SURVEY IMAGERY

Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

PILOT STUDY INJECTION AND PERFORMANCE MONITORING WELL LOCATIONS

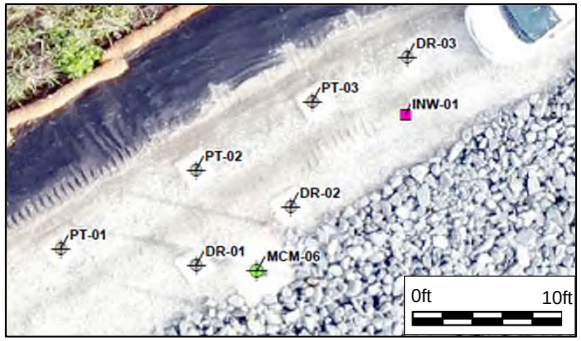
ARCADIS

FIGURE
2

DR-03

PT-03

DR-02



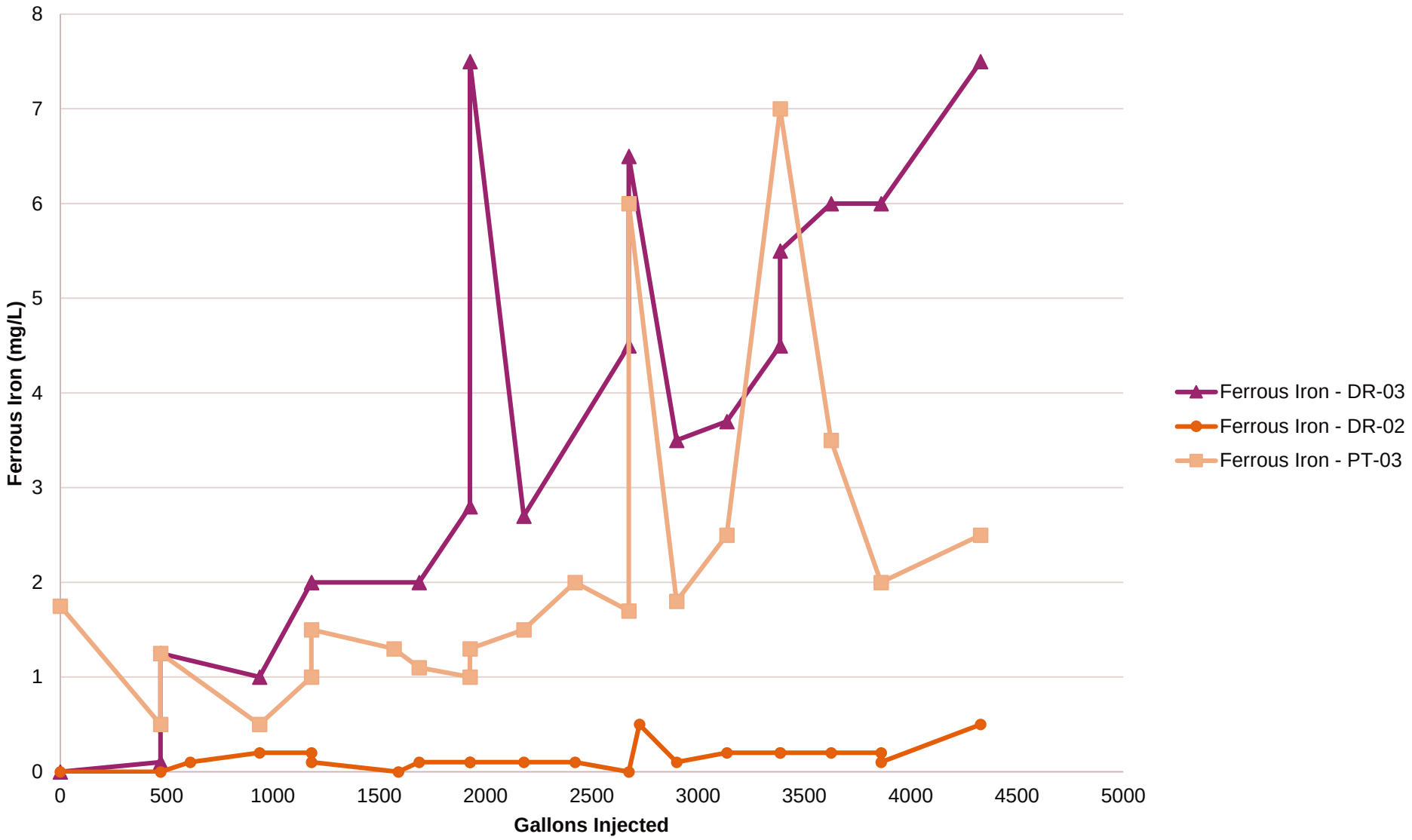
★ Precipitate observation

GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

VISUAL OBSERVATIONS AT DOSE RESPONSE WELLS

ARCADIS

FIGURE
3



GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

FERROUS IRON CONCENTRATIONS AT DOSE RESPONSE WELLS

ARCADIS

FIGURE
4

Notes:
mg/L = milligrams per liter
Samples were collected from the screen mid-point

Appendix A

GA EPD Approvals

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Jeffrey W, Cown Director

Land Protection Branch
4244 International Parkway
Suite 104
Atlanta, Georgia 30354
404-362-2537

February 16, 2024

Jennifer McNelly
Vice President of Environmental Affairs
241 Ralph McGill Boulevard
Atlanta, GA 30308

SUBJECT: Georgia Power Company–Plant McManus AP-1
Permit No: 063-030D (CCR)
Assessment of Corrective Measures: Draft Remedy Selection Report: Pilot Study Initiation: Concurrence
GEOS Submittal: 739298

Dear Mr. McNelly:

The Georgia Environmental Protection Division (EPD) has reviewed the **draft** remedy selection report for Georgia Power Company's Plant McManus AP-1 submitted February 28, 2023. The draft remedy selection report provides an overview of conceptual site models to support the remediation of statistically significant levels of arsenic at MCM-06.

Based on EPD's review of the subject submittal as well as their most recent groundwater monitoring report, EPD concurs with the initiation of pilot studies for in-situ injection (ISI) at the subject facility to facilitate further remedy design. EPD's concurrence to conduct pilot studies is not an approval of a final remedy.

However, as discussed in the subject submittal, Georgia Power will provide pilot study workplans for EPD review prior to implementation. An Underground Injection Permit will also be required before implementation of the pilot study.

Please submit an updated milestone schedule with the pilot study work plan and include a progress report to assess groundwater quality performance. If deviations from the milestone schedule occur, an updated milestone schedule will be required.

If you have any questions regarding this letter, please contact Mark Wescott at mark.wescott@dnr.ga.gov or (470) 763-6344.

Sincerely,

Mark Wescott, P.G.
Geologist
Environmental Monitoring Unit
Solid Waste Management Program

Beverly Tipton
Manager
Environmental Monitoring Unit
Solid Waste Management Program

cc: Tim Earl, Mike Smiley, Tyler Boyles, David Gibbons, Lauren Petty, and Ben Hodges: Georgia Power by email
William Cook, Tammy Buchli, Beverly Tipton, Keith Stevens, and Mark Wescott: EPD

File: S:\Land\LANDDOCS\SW\CCR Applications\GP Plant McManus\AP-1)\EPD Correspondence\Groundwater Correspondence

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Jeffrey W. Cown, Director

Watershed Protection Branch
2 Martin Luther King, Jr. Drive
Suite 1456, East Tower
Atlanta, Georgia 30334
404-463-1511

June 26, 2024

Mr. Scott Hendricks
Georgia Power Company
241 Ralph McGill Blvd.
Atlanta, GA 30308

RE: Pilot Test Notification
Plant McManus AP-1
Pilot Test No. UPT000071
Glynn County, Satilla River Basin

Dear Mr. Hendricks:

The Environmental Protection Division (EPD) has received your Pilot Test Notification for Plant McManus AP-1 in Glynn County. The proposed injection activities as described in your Pilot Test Notification are acceptable to the Underground Injection Control (UIC) Program as a limited Pilot Test with a 90-day duration.

Please forward any reports resulting from the injections, such as those provided to other EPD Programs, to the UIC Program. Any reports may be provided electronically via email to UIC Coordinator Jeff Hopper at *jeff.hopper@dnr.ga.gov* or via mail to:

Environmental Protection Division
Underground Injection Control
2 MLK Jr. Drive
Suite 1470A East
Atlanta, Georgia 30334

If you have any comments or questions concerning this approval letter, please contact Kelli-Ann Schrage at 470-938-3351 or via email at *kelli-ann.schrage@dnr.ga.gov*.

Sincerely,

Kelli-Ann Sottile Schrage

Kelli-Ann Schrage, Manager
Industrial Permitting Unit

CC: Mr. Scott Hendricks, Georgia Power (ashendri@southernco.com)
Mr. Daniel Robinson, Georgia Power (drobinso@southernco.com)
Ms. Erika Fly, Georgia Power (ekyeager@southernco.com)
EPD Underground Injection Control Program – Jeff Hopper (jeff.hopper@dnr.ga.gov)
EPD Industrial Permitting Unit – Kelli-Ann Schrage (kelli-ann.schrage@dnr.ga.gov)

GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Jeffrey W. Cown, Director

Land Protection Branch
4244 International Parkway
Suite 104
Atlanta, Georgia 30354
404-362-2537

August 2, 2024

Jennifer McNelly
Vice President of Environmental Affairs
241 Ralph McGill Boulevard
Atlanta, GA 30308

SUBJECT: Georgia Power Company–Plant McManus AP-1
Permit No: 063-030D (CCR)
MCM-06 Pilot Study Work Plan - Approved
Pilot Test No. UPT000071
GEOS Submittal: 836675

Dear Ms. McNelly:

The Georgia Environmental Protection Division (EPD) has reviewed the MCM-06 Pilot Study Workplan for Georgia Power Company's Plant McManus AP-1 submitted on April 30, 2024. This workplan describes planned injections necessary to inform corrective action design near monitoring well MCM-06, which has statistically significant levels (SSLs) of arsenic.

In a letter dated June 26, 2024, the EPD's Underground Injection Control Program approved your Pilot Test Notification under separate cover (Pilot Test No. UPT000071).

Based on EPD's review of the subject submittal as well as the most recent groundwater monitoring report, EPD concurs with the initiation of pilot studies for in-situ injection (ISI) at the subject facility to facilitate further remedy design. EPD's concurrence to conduct pilot studies is not an approval of a final remedy.

As discussed in the subject submittal, Georgia Power will provide remediation progress updates to EPD.

If deviations from the milestone schedule occur, an updated milestone schedule will be required.

If you have any questions regarding this letter, please contact Mark Wescott at mark.wescott@dnr.ga.gov or (470) 763-6344.
Sincerely,

Mark Wescott, P.G.
Geologist
Environmental Monitoring Unit
Solid Waste Management Program

Beverly Tipton
Manager
Environmental Monitoring Unit
Solid Waste Management Program

cc: Tim Earl, Mike Smiley, Tyler Boyles, David Gibbons, Lauren Petty, and Ben Hodges: Georgia Power by email
William Cook, Tammy Buchli, Beverly Tipton, Keith Stevens, and Mark Wescott: EPD

File: S:\Land\LANDDOCS\SW\CCR Applications\GP Plant McManus\AP-1)\EPD Correspondence\Groundwater Correspondence

Appendix B

Well Installation Report

Well Installation Report

Plant McManus Former Ash Pond 1

Brunswick, Georgia

September 27, 2024

Well Installation Report

Plant McManus Former Ash Pond 1

Brunswick, Georgia

September 27, 2024

Prepared By:
Arcadis U.S., Inc.
2839 Paces Ferry Road
Suite 900
Atlanta, GA 30339
United States
Phone: 770 431 8666
Fax: 770 435 2666

Prepared For:
Georgia Power Company
Brunswick, Georgia

Our Ref:
30180421.00009

David Prouty, P.G.
Project Geologist

Geoff Gay, P.E.
Technical Expert, Vice President

Contents

Certification iv
1 Introduction 1
2 Drilling and Well Installation 1
2.1 Drilling Method 1
2.2 Screened Interval 1
2.3 Well Construction Materials 1
2.3.1 Filter Pack 2
2.3.2 Annular Seal 2
3 Well Development 2
4 Survey 3
5 References 3

Tables

Table 1. Well Completion Details

Figures

Figure 1. Site Map and Compliance Monitoring Well Network
Figure 2. Well Location Map – Pilot Study Area

Appendices

A Boring Logs and Well Construction Details
B Well Driller Performance Bond
C Well Development Logs
D Survey Report

Certification

I, Geoffrey Gay, am a professional engineer and licensed in the State of Georgia. I hereby certify that this report was prepared by, or under the direct supervision of, a Qualified Groundwater Scientist, in accordance with the Georgia Environmental Protection Division Rules of Solid Waste Management. According to 391-3-4-.01, a Qualified Groundwater Scientist is “a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action.” By affixing my professional seal and signature, I hereby acknowledge that this report has been prepared in conformance with the United States Environmental Protection Agency coal combustion residual rule [40 Code of Federal Regulations (CFR) 257 Subpart D] and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10.

09-27-2024

J. Geoffrey Gay, P.E. (PE 27801)
Technical Expert (Eng), Vice President

Date

1 Introduction

This report documents the installation of two piezometers at Georgia Power Company (Georgia Power) Plant McManus Former Ash Pond 1 (AP-1). One injection well (INW-01) and one dose response well (DR-03), screened at similar depth and lithology to detection well MCM-06 and in general accordance with the Permit No. 063-030D(CCR) groundwater monitoring plan [GWMP] (Resolute 2021) were installed. Exceptions to the design presented in the GWMP are associated with the purpose of the wells (injection and dose response monitoring) in support of an approved Injection Pilot Study Workplan (Arcadis 2024, GEOS ID 836675).

2 Drilling and Well Installation

The piezometer locations are shown in **Figure 1**. The installation date, location, elevation, screen interval, and designations for the installed wells are provided in the following sections. Boring logs with well construction details are provided in **Appendix A**. A summary of well construction details is provided in **Table 1**.

2.1 Drilling Method

The wells were installed by Cascade Environmental under contract with Southern Company Services (SCS) Field Services. Cascade had a current and valid bond with the Water Wells Standards Advisory Council for the state of Georgia at the time of drilling and well installation, provided in **Appendix B**. The well installations were performed under the oversight and direction of a Georgia Registered Professional Engineer with Arcadis. Borehole advancement drilling was completed using rotosonic drilling techniques. A Terra Sonic 150CC Compact Crawler sonic rig was used to drill the boreholes where the wells were installed. During the drilling, continuous core samples were logged in the field for lithologic properties.

2.2 Screened Interval

Injection well INW-01 is constructed with 15 feet of 4-inch diameter well screen placed at an interval of 15.95 feet to 30.95 feet below ground surface (bgs) with a flush-threaded polyvinyl chloride (PVC) end cap placed on the bottom 0.1-foot sump/sediment trap.

Dose response well DR-03 is constructed with 15 feet of 2-inch diameter well screen placed at an interval of 15.90 feet to 30.90 feet bgs with a flush-threaded PVC end cap placed on the bottom 0.6-foot sump/sediment trap.

The screen intervals are provided along with the construction details in **Table 1**.

2.3 Well Construction Materials

The wells were designed and constructed to: (1) allow sufficient groundwater flow to the well for sampling and injection in the case of INW-01; (2) minimize the passage of formation materials (turbidity) into the wells; and (3) ensure sufficient structural integrity to prevent collapse of the well. The dose response well was constructed of 2-inch diameter Schedule 40 PVC casing affixed to a slotted PVC screen. The injection well was constructed of 4-inch diameter Schedule 40 PVC casing affixed to a slotted PVC screen. Factory machine slotted 0.010-inch

screens were used. The construction materials are ink-free, National Science Foundation (NSF) approved, and do not contain glues or solvents. The casing and screen sections are flush-threaded (ASTM-F-480).

2.3.1 Filter Pack

Following placement of the well screen and casing at INW-01, the annular space around the screen and casing was filled with Standard Sand and Silica 20/30 filter pack sand from the base of the borehole to a minimum of 2 feet above the top of the screen. Approximately 4.5 cubic feet of filter sand were used for INW-01.

Following placement of the well screen and casing at DR-03, the annular space around the screen and casing was filled with Standard Sand and Silica 20/30 filter pack sand from the base of the borehole to approximately 3 feet above the top of the screen. Approximately 2.5 cubic feet of bags of filter sand were used for DR-03.

After placing the filter pack and prior to installing the annular seal, each well was pumped for at least 30 minutes to ensure proper settlement of the filter pack. Prior to installing the annular seal, the depth to the filter pack was remeasured to ensure a minimum of two feet was present above the screen. Well construction and boring logs are provided in **Appendix A**.

2.3.2 Annular Seal and Well Completion

For INW-01, an annular seal composed of approximately 12 feet of neat cement grout (approximately 9 cubic feet) was placed on top of 2 feet of Standard Sand & Silica Co. fine sand (30/65 filter sand) and tremie-grouted to surface. Approximately 0.5 cubic feet of 30/65 filter sand was used as an annular seal for INW-01. The monitoring well surface completion consists of a 12-inch bolt down manhole and a four-foot by four-foot by six-inch concrete pad.

For DR-03, an annular seal composed of 3/8-inch Baroid Holeplug® non-coated, bentonite chips was placed on top of the filter pack by slowly pouring the material down the borehole and tamping it into place with a tremie pipe. Bentonite chips were placed from the top of the 20/30 sand to a thickness of approximately 2 feet in order to prevent grout contamination into the water-bearing zone. Approximately 0.5 cubic feet of bentonite chips were used. Following hydration of the bentonite, the remaining annular space was filled to approximately 4.9 feet bgs with Sand & Silica Co. fine sand (30/65 filter sand) to top of the water table (approximately 1 cubic foot) and tremie-grouted to surface with approximately 0.5 cubic feet of cement bentonite grout. The monitoring well surface completion consists of a 6-inch diameter bolt down manhole and a two-foot by two-foot by six-inch concrete pad.

3 Well Development

Injection well INW-01 was developed on June 4, 2024, using a 12-volt Proactive submersible pump. The well was surged continuously across the entire well screen in 2-foot strokes with the Proactive submersible pump from top to bottom and over-pumped to remove fines resulting from the well installation activities. Turbidity, pH, temperature, and conductivity measurements ensured that the well was fully developed. The final turbidity measurement following development was 1.43 nephelometric turbidity units (NTU).

Dose response well DR-03 was developed on June 3, 2024, using a Geotech Reclaimer submersible pump. The well was surged continuously across the entire well screen in 2-foot strokes with the submersible pump from top to bottom and over-pumped to remove fines resulting from the well installation activities. Turbidity, pH,

temperature, and conductivity measurements ensured that the well was fully developed. The final turbidity measurement following development was 9.19 nephelometric turbidity units (NTU).

The well development forms are included in **Appendix C**.

4 Survey

The monitoring well locations and top of casing (TOC) elevations were surveyed by Shupe Surveying Company, P.C. on June 27, 2024 using a Carlson BRX-7 Global Positioning System (GPS) and Geomax Model Zone 20-HV Laser Level. A re-survey was performed on August 28, 2024 to achieve the requisite vertical accuracy. Horizontal survey locations are relative to the Georgia State Plane Coordinate System, East Zone, North American Datum of 1983 (NAD83), US Survey Feet. All horizontal locations meet or exceed an accuracy of 0.5-foot. Vertical elevations are referenced to North American Vertical Datum of 1988 (NAVD1988), US Survey Feet and meet an accuracy standard of 0.01 foot. A detailed survey report is included in **Appendix D**.

5 References

Arcadis. 2024. MCM-06 Pilot Study Work Plan – Plant McManus Former Ash Pond 1. Prepared for Georgia Power. April 30.

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

Resolute. 2021. Groundwater Monitoring Plan – Plant McManus Former Ash Pond 1. Prepared for Georgia Power.

United States Environmental Protection Agency (USEPA), Science and Ecosystem Support Division (SESD). Design and Installation of Monitoring Wells SESDGUID-101-R2, January 16, 2018.

Tables

Table 1 - Well Completion Details
Georgia Power Company
Plant McManus
Brunswick, Georgia

Well ID	Installation Date	Northing [1] (feet)	Easting [1] (feet)	Ground Surface Elevation [2]	Top of Casing Elevation [2]	Total Depth (feet bgs)	Depth of Well (feet bTOC)	Screened Interval (feet bgs)	
								Top	Bottom
INW-01	6/1/2024	444,418.01	850,792.41	7.50	7.18	31.05	30.73	15.95	30.95
DR-03	6/1/2024	444,422.02	850,792.49	7.65	7.40	31.50	31.25	15.90	30.90

Notes:
1 - All horizontal locations surveyed to the Georgia State Plane Coordinate System, East Zone, NAD83
2 - Vertical elevations surveyed relative to NAVD88 (U.S. Survey Feet)
3 - Total Depth includes well sump (0.1 ft for INW-01 and 0.6 ft for DR-03)

Acronyms & Abbreviations:
bgs - below ground surface
bTOC - below top of casing
NAD83 - North American Datum of 1983
NAVD88 - North American Vertical Datum of 1988

Figures

LEGEND

- PROPERTY BOUNDARY
- PERMITTED CCR BOUNDARY
- DETECTION WELL
- ASSESSMENT WELL
- PIEZOMETER

NOTE:
1. CCR - COAL COMBUSTION RESIDUALS

0 500 1,000

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA EAST FIPS 1001 FEET
IMAGERY FROM MCMANUS DRONE SURVEY IMAGERY

Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

SITE MAP AND MONITORING WELL NETWORK

ARCADIS

FIGURE
1

LEGEND

- PIEZOMETER
- DETECTION WELL
- ASSESSMENT WELL
- INJECTION WELL

0 10 20

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATE PLANE
GEORGIA EAST FIPS 1001 FEET
IMAGERY FROM MCMANUS DRONE SURVEY IMAGERY

Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

**WELL LOCATION MAP -
PILOT STUDY AREA**

ARCADIS

FIGURE
2

Appendix A

Boring Logs and Well Construction Details

RECORD OF BOREHOLE INW-01

SHEET 1 of 1

PROJECT: Georgia Power Plant McManus
PROJECT NUMBER: 30180421
DRILLED DEPTH: 33.0 ft
LOCATION: Brunswick, GA

DRILL RIG: TerraSonic 150CC
DATE STARTED: 5/30/2024
DATE COMPLETED: 6/1/2024

NORTHING: 444418.01
EASTING: 850792.41
GS ELEVATION: 7.50
TOC ELEVATION: 7.18

DEPTH W.L.: 5.94
ELEVATION W.L.: 1.24
DATE W.L.:
TIME W.L.:

DEPTH (ft)	DESCRIPTION	USCS	GRAPHIC LOG	DEPTH (ft)	SAMPLE NO.	PHOTO	REC	INW-01 MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
	0.0 - 1.0 Gravel	FILL		0.0					SURFACE COMPLETION Protection: 12" Cast Iron Pad: 4'x4' Concrete Lock: Yes
	1.0 - 10.8 (SP) SAND; 7.5YR 7/6; loose; fine grained; well sorted; subangular; moist; FILL.			1.0					WELL CASING Interval: 0'-15.95' Material: Schedule 40 PVC Diameter: 4" Joint Type: Threaded
5					1		7.5 10.0	ANNULUS SEAL Interval: 0.5'-12' Type: Quickrete Portland Type I/II Neat Cement Grout Quantity: 9.0 cf	
	Grading to 10YR 8/4.	SP							
10									
	10.8 - 14.6 (CLS) Sandy CLAY; 7.5 YR 4/1; soft; medium to high plasticity; wet.	CLS		10.8				FILTER PACK SEAL Interval: 12'-14' Type: 30/65 Standard Sand and Silica Quantity: 0.5 cf	
15	14.6 - 16.8 (SP) SAND; 7.5YR 5/1; loose; fine grained; poorly sorted; subangular; wet; odor.	SP		14.6	2		9.0 10.0		WELL SCREEN Interval: 15.95'-30.95' Material: Schedule 40 PVC Diameter: 4" Slot Size: 0.010"
20	Grading to 7.5YR 5/2.								
					3		8.5 10.0	FILTER PACK Interval: 14'-33' Type: 20/30 Standard Sand and Silica Quantity: 4.5 cf	
25									
30	grading some shell fragments; GLEY1 5/N				4		3.0 3.0		
	Boring terminated at 33 feet bgs.								

DRILLING COMPANY: Cascade
DRILLER: Jason Williams

CHECKED BY: David Prouty
DATE: 7/31/2024

ARCADIS

RECORD OF BOREHOLE DR-03

SHEET 1 of 1

PROJECT: Georgia Power Plant McManus
PROJECT NUMBER: 30180421
DRILLED DEPTH: 33.0 ft
LOCATION: Brunswick, GA

DRILL RIG: TerraSonic 150CC
DATE STARTED: 5/31/2024
DATE COMPLETED: 6/1/2024

NORTHING: 444422.02
EASTING: 850792.49
GS ELEVATION: 7.65
TOC ELEVATION: 7.40

DEPTH W.L.: 6.67
ELEVATION W.L.: 0.75
DATE W.L.: 6/3/2024
TIME W.L.: 12:45:00 PM

DEPTH (ft)	DESCRIPTION	USCS	GRAPHIC LOG	DEPTH (ft)	SAMPLE NO.	PHOTO	REC	DR-03 MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
	0.0 - 0.8 Gravel	FILL		0.0				ANNULUS SEAL Interval: 0.5'-4.9' Type: Quickrete Portland Type I/II Cement Bentonite Grout Quantity: 0.5 cf	SURFACE COMPLETION Protection: 6" Cast Iron Pad: 2'x2' Concrete Lock: Yes
	0.8 - 11.5 (SP) SAND; 7.5YR 7/4; loose; well sorted; fine grained; subangular; moist; FILL.			0.8					WELL CASING Interval: 0'-15.90' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded
5	Grading to 7.5YR 7/2.				1		8.5 10.0		
	Grading to 7.5YR 7/3.	SP						FILTER PACK SEAL Interval: 4.9'-11.1' Type: 30/65 Standard Sand and Silica Quantity: 1.0 cf	
	Grading to 10YR 6/1.								
10									
	11.5 - 13.0 (CL) CLAY; GLEY1 5/N; soft; high plasticity; moist.	CL		11.5				FILTER PACK SEAL Interval: 11.1'-13.1' Type: 3/8" Hole Plug Bentonite Chips Quantity: 0.5 cf	
	13.0 - 13.5 (CLS) Sandy CLAY; GLEY1 5/N; soft; high plasticity; moist.	CLS		13.0					
	13.5 - 33.0 (SP) SAND; GLEY1 5/10Y; well sorted; fine grained; subangular to subrounded; wey.			13.5	2		10.0 10.0		WELL SCREEN Interval: 15.90'-30.90' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010"
20	Grading to very fine grained; very wet; GLEY2 5/10BG.								
		SP						FILTER PACK Interval: 13.1'-32' Type: 20/30 Standard Sand and Silica Quantity: 2.5 cf	
25	Grading fine grained; subrounded; less wet.				3		9.0 10.0		
30	grading some shell fragments GLEY1 5/N.				4		3.0 3.0		
	Boring terminated at 33 feet bgs.								

DRILLING COMPANY: Cascade
DRILLER: Jason Williams

CHECKED BY: David Prouty
DATE: 7/31/2024

ARCADIS

Appendix B

Well Driller Performance Bond

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company , Surety upon

a certain Bond No. 800033976

dated effective September 27, 2017
(MONTH-DAY-YEAR)

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

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

does hereby continue said bond in force for the further period

beginning on June 30, 2023
(MONTH-DAY-YEAR)

and ending on June 30, 2025
(MONTH-DAY-YEAR)

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

Description of bond Performance Bond for Water Well Contractors

Premium:

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

Signed and dated on April 13, 2023
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By _____
ATTORNEY-IN-FACT Carlos A. Albelo

intact INSURANCE

Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Megan Sivley, Melissa Haddick, Sandra Parker, Orlando Aguirre, Stacy Killebrew, Carlos A. Albelo**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

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

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

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

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

IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this first day of January, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

By _____
Sarah A. Kolar, General Counsel

STATE OF MINNESOTA
HENNEPIN COUNTY

On this first day of January, 2023, before me personally came Sarah A. Kolar, General Counsel of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and she acknowledged the execution of the same, and being by me duly sworn, that she is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.

ALISON DWAN NASH-TROUT
NOTARY PUBLIC - MINNESOTA
My Commission Expires
January 31, 2026

_____
Notary Public

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

Signed and sealed. Dated 13th day of April, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

This Power of Attorney expires
January 31, 2025

_____
Kara Barrow, Secretary

Please direct bond verifications to surety@intactinsurance.com

Appendix C

Well Development Logs

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 6/3/24

Calibrated By: Jay Siewert

Field Conditions: 86°/48°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	789310
Turbidity Meter	LaMotte 2020	2042-3818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24004517	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24000085	12/2024	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24005593	12/2024	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	12/2024	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	1502	**Time Finish**	1523		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.72	36.46	± 10%	NA
Specific Conductance (µS/cm)	4,490	4313.1	34.29	± 10% of standard	EPA 2023
pH (SU)	4.00	3.81	34.38	± 0.1	GWMP
pH (SU)	7.00	6.74	32.59	± 0.1	GWMP
pH (SU)	10.00	9.70	31.78	± 0.1	GWMP
ORP (mV)	228.0	216.0	31.37	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.92		
	10.00	10.38		

Calibration Check					
Time Start	1842	**Time Finish**	1850		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4805.9	31.02	± 10% of standard	EPA 2023
pH (SU)	4.00	3.94	30.79	± 0.1	GWMP
pH (SU)	7.00	~~7.23~~ 7.35	30.32	± 0.1	GWMP
pH (SU)	10.00	10.23	29.26	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	10.58		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 6/4/24

Calibrated By: Jay Stewart

Field Conditions: 86° / 75°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	789310
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24004517	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24000085	12/2024	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24005593	12/2024	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	12/2024	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	832	**Time Finish**	845		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	97.77	25.73	± 10%	NA
Specific Conductance (µS/cm)	4,490	4568.6	25.45	± 10% of standard	EPA 2023
pH (SU)	4.00	4.14	25.58	± 0.1	GWMP
pH (SU)	7.00	7.05	25.21	± 0.1	GWMP
pH (SU)	10.00	10.13	25.58	± 0.1	GWMP
ORP (mV)	228.0	236.3	25.42	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.92		
	10.00	10.63		

Calibration Check					
Time Start	1535	**Time Finish**	1541		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4592.3	31.51	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	31.36	± 0.1	GWMP
pH (SU)	7.00	~~8.90~~ 7.28	32.07	± 0.1	GWMP
pH (SU)	10.00	10.07	31.15	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	10.28		

Notes:

Low-Flow Test Report:

Test Date / Time: 6/4/2024 2:14:19 PM
Project: Plant McManus Dike Development June 2024
Operator Name: Jay Siewert

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.77 ft** **Total Depth: 30.77 ft** **Initial Depth to Water: 5.94 ft**	**Pump Type: 12V Proactive** **Tubing Type: LDPE** **Pump Intake From TOC: 23.27 ft** **Estimated Total Volume Pumped: 480000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 8000 ml/min** **Final Draw Down: 4.86 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789310**

Test Notes: Pre-purged for 5 hours and 1,968 L prior to trolling. Gray/black purge water on initial pumping. 6.25ft of drawdown observed at 2.5GPM. Hydraulic surging performed across full length of the screen. Pumping performed at each foot of screen length for approximatley 10 minutes and an average of 20gals. 5.41ft of drawdown observed before termination of pumping at 2.5 GPM. Final Depth: 30.78ft.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
6/4/2024 2:14 PM	00:00	7.44 pH	24.67 °C	7,993.4 µS/cm	0.00 mg/L	1.03 NTU	-104.7 mV	10.45 ft	4.49 PSU	8,000.0 ml/min
6/4/2024 2:19 PM	05:00	7.49 pH	22.43 °C	8,199.3 µS/cm	0.01 mg/L	1.23 NTU	-258.0 mV	10.10 ft	4.61 PSU	8,000.0 ml/min
6/4/2024 2:24 PM	10:00	7.47 pH	22.42 °C	8,249.2 µS/cm	0.00 mg/L	0.97 NTU	-157.9 mV	10.74 ft	4.64 PSU	8,000.0 ml/min
6/4/2024 2:29 PM	15:00	7.47 pH	22.39 °C	8,314.6 µS/cm	0.00 mg/L	0.56 NTU	-166.9 mV	10.80 ft	4.68 PSU	8,000.0 ml/min
6/4/2024 2:34 PM	20:00	7.46 pH	22.37 °C	8,235.2 µS/cm	0.00 mg/L	0.52 NTU	-176.6 mV	10.80 ft	4.63 PSU	8,000.0 ml/min
6/4/2024 2:39 PM	25:00	7.46 pH	22.37 °C	8,321.6 µS/cm	0.00 mg/L	0.56 NTU	-186.2 mV	10.80 ft	4.69 PSU	8,000.0 ml/min
6/4/2024 2:44 PM	30:00	7.46 pH	22.30 °C	8,333.3 µS/cm	0.00 mg/L	0.36 NTU	-194.7 mV	10.80 ft	4.69 PSU	8,000.0 ml/min
6/4/2024 2:49 PM	35:00	7.46 pH	22.29 °C	8,308.4 µS/cm	0.00 mg/L	0.36 NTU	-201.5 mV	10.79 ft	4.68 PSU	8,000.0 ml/min
6/4/2024 2:54 PM	40:00	7.45 pH	22.35 °C	8,297.7 µS/cm	0.00 mg/L	0.33 NTU	-208.1 mV	10.80 ft	4.67 PSU	8,000.0 ml/min
6/4/2024 2:59 PM	45:00	7.44 pH	22.34 °C	8,278.6 µS/cm	0.00 mg/L	0.31 NTU	-215.4 mV	10.80 ft	4.66 PSU	8,000.0 ml/min
6/4/2024 3:04 PM	50:00	7.44 pH	22.36 °C	8,264.5 µS/cm	0.00 mg/L	0.26 NTU	-222.4 mV	10.80 ft	4.65 PSU	8,000.0 ml/min
6/4/2024 3:09 PM	55:00	7.44 pH	22.36 °C	8,280.2 µS/cm	0.00 mg/L	0.24 NTU	-228.0 mV	10.80 ft	4.66 PSU	8,000.0 ml/min
6/4/2024 3:14 PM	01:00:00	7.44 pH	22.35 °C	8,269.2 µS/cm	0.00 mg/L	1.43 NTU	-234.9 mV	10.80 ft	4.65 PSU	8,000.0 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/3/2024 4:25:45 PM
Project: Plant McManus Dike Development June 2024
Operator Name: Jay Siewert

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.22 ft** **Total Depth: 31.22 ft** **Initial Depth to Water: 6.67 ft**	**Pump Type: GeoTech Reclaimer** **Tubing Type: LDPE** **Pump Intake From TOC: 23.72 ft** **Estimated Total Volume Pumped: 170000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1400 ml/min** **Final Draw Down: -1.86 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789310**

Test Notes: Pre-purged for 6+ hours and 2,365L prior to trolling. Gray purge water on initial pumping. 0.83ft of drawdown observed at 3GPM. Water cleared fast. Hydraulic surging performed across full length of the screen 2x with pumping being performed at each foot of screen length.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
6/3/2024 4:25 PM	00:00	7.51 pH	23.33 °C	6,902.5 µS/cm	0.30 mg/L	45.90 NTU	-65.5 mV	6.20 ft	3.84 PSU	1,400.0 ml/min
6/3/2024 4:30 PM	05:00	7.63 pH	22.96 °C	7,124.7 µS/cm	0.47 mg/L	35.20 NTU	-82.1 mV	6.03 ft	3.97 PSU	1,400.0 ml/min
6/3/2024 4:35 PM	10:00	7.71 pH	22.92 °C	7,298.9 µS/cm	1.49 mg/L	33.20 NTU	-75.4 mV	6.29 ft	4.07 PSU	1,400.0 ml/min
6/3/2024 4:40 PM	15:00	7.70 pH	22.81 °C	7,420.3 µS/cm	0.51 mg/L	23.20 NTU	-75.5 mV	6.02 ft	4.15 PSU	1,400.0 ml/min
6/3/2024 4:45 PM	20:00	7.68 pH	22.79 °C	7,547.7 µS/cm	0.32 mg/L	16.20 NTU	-86.9 mV	6.12 ft	4.22 PSU	1,400.0 ml/min
6/3/2024 4:50 PM	25:00	7.68 pH	22.79 °C	7,689.5 µS/cm	0.44 mg/L	15.40 NTU	-90.6 mV	6.08 ft	4.31 PSU	1,400.0 ml/min
6/3/2024 4:55 PM	30:00	7.67 pH	22.71 °C	7,739.5 µS/cm	0.29 mg/L	17.30 NTU	-93.8 mV	5.99 ft	4.34 PSU	1,400.0 ml/min
6/3/2024 5:00 PM	35:00	7.66 pH	22.79 °C	7,748.0 µS/cm	0.28 mg/L	11.30 NTU	-97.4 mV	5.95 ft	4.34 PSU	1,400.0 ml/min
6/3/2024 5:05 PM	40:00	7.66 pH	22.78 °C	7,742.5 µS/cm	0.31 mg/L	13.60 NTU	-99.9 mV	6.01 ft	4.34 PSU	1,400.0 ml/min
6/3/2024 5:10 PM	45:00	7.65 pH	22.79 °C	7,736.3 µS/cm	0.27 mg/L	17.60 NTU	-105.0 mV	5.96 ft	4.33 PSU	1,400.0 ml/min
6/3/2024 5:15 PM	50:00	7.65 pH	22.79 °C	7,777.5 µS/cm	0.29 mg/L	11.70 NTU	-107.1 mV	5.92 ft	4.36 PSU	1,400.0 ml/min
6/3/2024 5:20 PM	55:00	7.65 pH	22.72 °C	7,764.8 µS/cm	0.29 mg/L	17.80 NTU	-111.3 mV	5.90 ft	4.35 PSU	1,400.0 ml/min
6/3/2024 5:25 PM	01:00:00	7.64 pH	22.76 °C	7,760.3 µS/cm	0.23 mg/L	16.50 NTU	-116.2 mV	5.78 ft	4.35 PSU	1,400.0 ml/min
6/3/2024 5:30 PM	01:05:00	7.64 pH	22.79 °C	7,777.2 µS/cm	0.28 mg/L	13.50 NTU	-119.9 mV	5.65 ft	4.36 PSU	1,400.0 ml/min
6/3/2024 5:35 PM	01:10:00	7.63 pH	22.75 °C	7,810.3 µS/cm	0.34 mg/L	14.10 NTU	-128.8 mV	5.72 ft	4.38 PSU	1,400.0 ml/min

6/3/2024 5:40 PM	01:15:00	7.63 pH	22.79 °C	7,797.3 µS/cm	0.37 mg/L	11.90 NTU	-136.2 mV	5.55 ft	4.37 PSU	1,400.0 ml/min
6/3/2024 5:45 PM	01:20:00	7.63 pH	22.75 °C	7,808.1 µS/cm	0.35 mg/L	11.40 NTU	-149.0 mV	5.48 ft	4.38 PSU	1,400.0 ml/min
6/3/2024 5:50 PM	01:25:00	7.63 pH	22.74 °C	7,774.4 µS/cm	0.38 mg/L	12.20 NTU	-161.3 mV	5.39 ft	4.36 PSU	1,400.0 ml/min
6/3/2024 5:55 PM	01:30:00	7.61 pH	22.83 °C	7,829.8 µS/cm	0.26 mg/L	10.22 NTU	-171.3 mV	5.25 ft	4.39 PSU	1,400.0 ml/min
6/3/2024 6:00 PM	01:35:00	7.64 pH	22.83 °C	7,808.5 µS/cm	0.51 mg/L	12.46 NTU	-173.2 mV	5.21 ft	4.38 PSU	1,600.0 ml/min
6/3/2024 6:05 PM	01:40:00	7.60 pH	22.88 °C	7,807.1 µS/cm	0.27 mg/L	10.86 NTU	-186.6 mV	5.15 ft	4.38 PSU	1,600.0 ml/min
6/3/2024 6:10 PM	01:45:00	7.62 pH	22.83 °C	7,803.2 µS/cm	0.43 mg/L	10.81 NTU	-192.0 mV	5.06 ft	4.37 PSU	1,400.0 ml/min
6/3/2024 6:15 PM	01:50:00	7.59 pH	23.00 °C	7,841.5 µS/cm	0.19 mg/L	10.33 NTU	-201.3 mV	4.92 ft	4.40 PSU	1,400.0 ml/min
6/3/2024 6:20 PM	01:55:00	7.59 pH	23.03 °C	7,789.8 µS/cm	0.17 mg/L	8.53 NTU	-208.4 mV	4.86 ft	4.37 PSU	1,400.0 ml/min
6/3/2024 6:25 PM	02:00:00	7.59 pH	22.97 °C	7,778.1 µS/cm	0.23 mg/L	9.19 NTU	-210.1 mV	4.81 ft	4.36 PSU	1,400.0 ml/min

Samples

Sample ID:	Description:

Appendix D

Survey Report

Shupe Surveying Company, P.C.

3837 Darien Hwy
Brunswick, GA 31525
912-265-0562

PLANT MCMANUS WELL SURVEY 9/05/2024

WELL #	NORTHING	EASTING	CASING ELEVATION	GROUND ELEVATION
INW-01	444418.01	850792.41	7.18	(NAIL) 7.50
DR-03	444422.02	850792.49	7.40	(NAIL) 7.65

HORIZONTAL DATUM: GA COORD SYSTEM, EAST ZONE NAD-83

VERTICAL DATUM: NAVD-88

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION FOR THE PVC WELL CASINGS.

DATE OF FIELD SURVEY & INSPECTION: 06/27/2024 AND 08/28/24. FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NAD'83, 0.01 VERTICAL-NAVD '88. EQUIPMENT USED FOR HORIZONTAL AND VERTICAL LOCATION: CARLSON BRX-7 GPS RECEIVER WITH A VRS NETWORK, CARLSON RT4 DATA COLLECTOR AND A GEOMAX MODEL ZONE 20-HV LASER LEVEL.

Appendix C

Baseline Analytical Laboratory Results and Field Sampling Forms

Site Name: Mart McManus

Calibrated By: Jay Stewart

Field Instrumentation Calibration Form

Date: 6/18/24

Field Conditions: 81°/70°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	789310
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24004517	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24000085	12/2024	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24005593	12/2024	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	12/2024	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	830	Time Finish	845		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	102.63	28.48	± 10%	NA
Specific Conductance (µS/cm)	4,490	4467.8	28.54	± 10% of standard	EPA 2023
pH (SU)	4.00	3.99	28.86	± 0.1	GWMP
pH (SU)	7.00	6.97	28.39	± 0.1	GWMP
pH (SU)	10.00	9.93	28.01	± 0.1	GWMP
ORP (mV)	228.0	220.4	27.51	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	-0.01	± 10% of standard	EPA 2023
	1.00	0.96		
	10.00	10.28		

Calibration Check					
Time Start	1748	Time Finish	1758		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4575.5	30.27	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	29.78	± 0.1	GWMP
pH (SU)	7.00	7.19	31.04	± 0.1	GWMP
pH (SU)	10.00	10.08	31.74	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.03		
	10.00	10.26		

Notes:

Site Name: Plant McManus

Calibrated By: Jay Siewert

Field Instrumentation Calibration Form

Date: 6/19/24

Field Conditions: 85°/73°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	789310
Turbidity Meter	LaMotte 2020	2042-3818

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24004517	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24000085	12/2024	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24005593	12/2024	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	12/2024	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	817	Time Finish	834		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	98.13	26.95	± 10%	NA
Specific Conductance (µS/cm)	4,490	4464.1	26.87	± 10% of standard	EPA 2023
pH (SU)	4.00	3.99	27.14	± 0.1	GWMP
pH (SU)	7.00	6.95	26.78	± 0.1	GWMP
pH (SU)	10.00	9.92	26.89	± 0.1	GWMP
ORP (mV)	228.0	228.4	27.72	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.94		
	10.00	10.38		

Calibration Check					
Time Start	1545	Time Finish	1553		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4582.0	30.03	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	29.86	± 0.1	GWMP
pH (SU)	7.00	7.09	30.94	± 0.1	GWMP
pH (SU)	10.00	9.94	32.38	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	10.03		

Notes:

Low-Flow Test Report:

Test Date / Time: 6/19/2024 1:49:29 PM
Project: June 2024 McManus Dike Baseline Sampling
Operator Name: Natalie Piparo

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 5.92 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 4200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789301**

Test Notes:
Prepurged 3L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
6/19/2024 1:49 PM	00:00	6.65 pH	25.87 °C	14,044 µS/cm	0.09 mg/L	0.20 NTU	-152.1 mV	6.16 ft	8.25 PSU	210.00 ml/min
6/19/2024 1:54 PM	05:00	6.71 pH	25.35 °C	14,183 µS/cm	0.06 mg/L	0.16 NTU	-192.2 mV	6.19 ft	8.33 PSU	210.00 ml/min
6/19/2024 1:59 PM	10:00	6.74 pH	25.28 °C	14,182 µS/cm	0.06 mg/L	0.08 NTU	-192.4 mV	6.20 ft	8.33 PSU	210.00 ml/min
6/19/2024 2:04 PM	15:00	6.68 pH	25.19 °C	14,247 µS/cm	0.06 mg/L	0.20 NTU	-192.5 mV	6.20 ft	8.37 PSU	210.00 ml/min
6/19/2024 2:09 PM	20:00	6.66 pH	25.64 °C	14,231 µS/cm	0.05 mg/L	0.35 NTU	-194.1 mV	6.20 ft	8.36 PSU	210.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss. Metals, Inorganics Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/19/2024 9:45:42 AM
Project: June 2024 McManus Dike Baseline Sampling
Operator Name: Jay Siewert

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 7.28 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 4200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.37 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789310**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
6/19/2024 9:45 AM	00:00	7.14 pH	24.72 °C	7,777.6 µS/cm	0.37 mg/L	0.17 NTU	-124.7 mV	7.51 ft	4.36 PSU	210.00 ml/min
6/19/2024 9:50 AM	05:00	7.08 pH	24.19 °C	7,877.7 µS/cm	0.09 mg/L	0.09 NTU	-121.4 mV	7.55 ft	4.42 PSU	210.00 ml/min
6/19/2024 9:55 AM	10:00	7.09 pH	24.48 °C	7,893.5 µS/cm	0.04 mg/L	0.03 NTU	-125.9 mV	7.59 ft	4.43 PSU	210.00 ml/min
6/19/2024 10:00 AM	15:00	7.12 pH	24.14 °C	7,868.5 µS/cm	0.04 mg/L	0.35 NTU	-125.5 mV	7.61 ft	4.42 PSU	210.00 ml/min
6/19/2024 10:05 AM	20:00	7.12 pH	24.23 °C	7,884.2 µS/cm	0.03 mg/L	0.04 NTU	-127.5 mV	7.65 ft	4.43 PSU	210.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/18/2024 11:06:28 AM
Project: June 2024 McManus Dike Baseline Sampling
Operator Name: Natalie Piparo

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.32 ft** **Total Depth: 30.32 ft** **Initial Depth to Water: 5.44 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.82 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.46 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789301**

Test Notes:
Prepurged 3L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
6/18/2024 11:06 AM	00:00	6.57 pH	25.14 °C	11,253 µS/cm	0.08 mg/L	0.83 NTU	-272.5 mV	5.76 ft	6.49 PSU	200.00 ml/min
6/18/2024 11:11 AM	05:00	6.68 pH	24.56 °C	11,147 µS/cm	0.08 mg/L	0.53 NTU	-286.9 mV	5.81 ft	6.42 PSU	200.00 ml/min
6/18/2024 11:16 AM	10:00	6.76 pH	24.21 °C	10,898 µS/cm	0.07 mg/L	0.56 NTU	-290.9 mV	5.83 ft	6.27 PSU	200.00 ml/min
6/18/2024 11:21 AM	15:00	6.76 pH	24.33 °C	10,923 µS/cm	0.06 mg/L	0.80 NTU	-292.0 mV	5.86 ft	6.28 PSU	200.00 ml/min
6/18/2024 11:26 AM	20:00	6.81 pH	23.88 °C	10,756 µS/cm	0.06 mg/L	0.41 NTU	-295.6 mV	5.88 ft	6.18 PSU	200.00 ml/min
6/18/2024 11:31 AM	25:00	6.82 pH	23.70 °C	10,805 µS/cm	0.06 mg/L	0.12 NTU	-296.9 mV	5.90 ft	6.21 PSU	200.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/18/2024 3:24:28 PM
Project: June 2024 McManus Dike Baseline Sampling
Operator Name: Jay Siewert

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.03 ft** **Total Depth: 30.03 ft** **Initial Depth to Water: 6.04 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.53 ft** **Estimated Total Volume Pumped: 4200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: -0.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789310**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
6/18/2024 3:24 PM	00:00	7.15 pH	25.78 °C	8,953.5 µS/cm	0.11 mg/L	0.50 NTU	-205.3 mV	5.90 ft	5.07 PSU	210.00 ml/min
6/18/2024 3:29 PM	05:00	7.12 pH	25.46 °C	8,896.5 µS/cm	0.08 mg/L	0.59 NTU	-204.4 mV	5.87 ft	5.04 PSU	210.00 ml/min
6/18/2024 3:34 PM	10:00	7.16 pH	25.13 °C	8,829.4 µS/cm	0.04 mg/L	0.49 NTU	-202.8 mV	5.84 ft	5.00 PSU	210.00 ml/min
6/18/2024 3:39 PM	15:00	7.21 pH	24.93 °C	8,685.6 µS/cm	0.04 mg/L	0.33 NTU	-202.5 mV	5.80 ft	4.91 PSU	210.00 ml/min
6/18/2024 3:44 PM	20:00	7.21 pH	24.58 °C	8,670.2 µS/cm	0.04 mg/L	0.27 NTU	-202.0 mV	5.76 ft	4.90 PSU	210.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation
FD-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/19/2024 1:40:57 PM
Project: June 2024 McManus Dike Baseline Sampling
Operator Name: Jay Siewert

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 6.22 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.13 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789310**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
6/19/2024 1:40 PM	00:00	7.52 pH	25.43 °C	6,879.3 µS/cm	0.05 mg/L	2.31 NTU	-184.3 mV	6.30 ft	3.82 PSU	200.00 ml/min
6/19/2024 1:45 PM	05:00	7.48 pH	25.48 °C	6,835.7 µS/cm	0.03 mg/L	1.43 NTU	-177.2 mV	6.31 ft	3.80 PSU	200.00 ml/min
6/19/2024 1:50 PM	10:00	7.50 pH	25.31 °C	6,923.8 µS/cm	0.03 mg/L	1.12 NTU	-175.7 mV	6.31 ft	3.85 PSU	200.00 ml/min
6/19/2024 1:55 PM	15:00	7.55 pH	25.02 °C	7,074.2 µS/cm	0.02 mg/L	1.37 NTU	-171.3 mV	6.32 ft	3.94 PSU	200.00 ml/min
6/19/2024 2:00 PM	20:00	7.55 pH	25.12 °C	7,116.3 µS/cm	0.02 mg/L	2.43 NTU	-165.4 mV	6.32 ft	3.97 PSU	200.00 ml/min
6/19/2024 2:05 PM	25:00	7.53 pH	25.28 °C	7,144.7 µS/cm	0.01 mg/L	1.93 NTU	-271.6 mV	6.35 ft	3.98 PSU	200.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/19/2024 9:54:32 AM
Project: June 2024 McManus Dike Baseline Sampling
Operator Name: Natalie Piparo

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 4.62 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.5 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789301**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
6/19/2024 9:54 AM	00:00	6.41 pH	26.47 °C	11,634 µS/cm	0.10 mg/L	0.52 NTU	-244.2 mV	4.92 ft	6.73 PSU	210.00 ml/min
6/19/2024 9:59 AM	05:00	6.57 pH	24.69 °C	11,769 µS/cm	0.09 mg/L	0.39 NTU	-292.6 mV	4.96 ft	6.81 PSU	210.00 ml/min
6/19/2024 10:04 AM	10:00	6.57 pH	24.93 °C	11,674 µS/cm	0.07 mg/L	0.43 NTU	-249.3 mV	4.98 ft	6.75 PSU	210.00 ml/min
6/19/2024 10:09 AM	15:00	6.59 pH	24.69 °C	11,523 µS/cm	0.07 mg/L	0.39 NTU	-246.9 mV	5.03 ft	6.66 PSU	210.00 ml/min
6/19/2024 10:14 AM	20:00	6.59 pH	24.65 °C	11,518 µS/cm	0.06 mg/L	0.32 NTU	-245.5 mV	5.08 ft	6.65 PSU	210.00 ml/min
6/19/2024 10:19 AM	25:00	6.61 pH	24.69 °C	11,265 µS/cm	0.06 mg/L	0.29 NTU	-245.2 mV	5.12 ft	6.50 PSU	210.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/18/2024 3:16:56 PM
Project: June 2024 McManus Dike Baseline Sampling
Operator Name: Natalie Piparo

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 6.29 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789301**

Test Notes:
Prepurged 4.5L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
6/18/2024 3:16 PM	00:00	6.27 pH	30.85 °C	10,241 µS/cm	0.08 mg/L	0.25 NTU	-76.9 mV	6.25 ft	5.86 PSU	200.00 ml/min
6/18/2024 3:21 PM	05:00	6.52 pH	26.19 °C	10,983 µS/cm	0.04 mg/L	0.31 NTU	-228.4 mV	6.20 ft	6.32 PSU	200.00 ml/min
6/18/2024 3:26 PM	10:00	6.42 pH	25.61 °C	10,920 µS/cm	0.04 mg/L	0.27 NTU	-243.9 mV	6.14 ft	6.28 PSU	200.00 ml/min
6/18/2024 3:31 PM	15:00	6.35 pH	25.32 °C	10,735 µS/cm	0.05 mg/L	0.30 NTU	-257.3 mV	6.12 ft	6.17 PSU	200.00 ml/min
6/18/2024 3:36 PM	20:00	6.39 pH	25.21 °C	10,692 µS/cm	0.05 mg/L	0.80 NTU	-277.3 mV	6.09 ft	6.14 PSU	200.00 ml/min
6/18/2024 3:41 PM	25:00	6.43 pH	24.89 °C	10,499 µS/cm	0.05 mg/L	0.24 NTU	-298.0 mV	6.07 ft	6.02 PSU	200.00 ml/min
6/18/2024 3:46 PM	30:00	6.47 pH	24.83 °C	10,311 µS/cm	0.04 mg/L	0.36 NTU	-317.9 mV	6.01 ft	5.91 PSU	200.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 6/18/2024 11:17:38 AM
Project: June 2024 McManus Dike Baseline Sampling
Operator Name: Jay Siewert

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.36 ft** **Total Depth: 25.36 ft** **Initial Depth to Water: 5.62 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.36 ft** **Estimated Total Volume Pumped: 6303.333 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789310**

Test Notes:
Pre-purged 4 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
6/18/2024 11:17 AM	00:00	6.24 pH	24.59 °C	12,344 µS/cm	0.04 mg/L	7.81 NTU	-48.7 mV	5.81 ft	7.17 PSU	200.00 ml/min
6/18/2024 11:19 AM	01:31	6.24 pH	24.62 °C	12,334 µS/cm	0.03 mg/L	9.13 NTU	-25.9 mV	5.82 ft	7.16 PSU	200.00 ml/min
6/18/2024 11:24 AM	06:31	6.27 pH	24.64 °C	12,252 µS/cm	0.04 mg/L	7.07 NTU	-25.1 mV	5.83 ft	7.11 PSU	200.00 ml/min
6/18/2024 11:29 AM	11:31	6.31 pH	25.09 °C	11,929 µS/cm	0.02 mg/L	6.18 NTU	-33.7 mV	5.85 ft	6.91 PSU	200.00 ml/min
6/18/2024 11:34 AM	16:31	6.34 pH	25.05 °C	11,798 µS/cm	0.02 mg/L	5.41 NTU	-39.0 mV	5.87 ft	6.83 PSU	200.00 ml/min
6/18/2024 11:39 AM	21:31	6.39 pH	25.36 °C	11,536 µS/cm	0.02 mg/L	4.13 NTU	-48.8 mV	5.89 ft	6.67 PSU	200.00 ml/min
6/18/2024 11:44 AM	26:31	6.43 pH	25.36 °C	11,387 µS/cm	0.02 mg/L	3.41 NTU	-55.0 mV	5.91 ft	6.57 PSU	200.00 ml/min
6/18/2024 11:49 AM	31:31	6.47 pH	24.84 °C	11,243 µS/cm	0.03 mg/L	2.43 NTU	-58.2 mV	5.92 ft	6.48 PSU	200.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

GEL Laboratories LLC
a member of The GEL Group INC

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

July 11, 2024

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

Re: Plant McManus CCR Groundwater Compliance
Work Order: 672636

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 21, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. The data package is being revised to include total and dissolved Manganese. This replaces the original data package issued on July 3, 2024.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
672636001	MCM-INW-01	Ground Water	06/19/24 14:10	06/21/24 09:22
672636002	MCM-MCM-06	Ground Water	06/19/24 10:15	06/21/24 09:22
672636003	MCM-PT-01	Ground Water	06/19/24 10:20	06/21/24 09:22
672636004	MCM-PT-02	Ground Water	06/18/24 15:57	06/21/24 09:22
672636005	MCM-PT-03	Ground Water	06/18/24 11:56	06/21/24 09:22
672636006	MCM-DR-01	Ground Water	06/18/24 11:33	06/21/24 09:22
672636007	MCM-DR-02	Ground Water	06/18/24 16:03	06/21/24 09:22
672636008	MCM-DR-03	Ground Water	06/19/24 14:16	06/21/24 09:22
672636009	MCM-AP1-FD-01	Ground Water	06/18/24 12:00	06/21/24 09:22
672636010	MCM-AP1-FB-01	Ground Water	06/18/24 18:20	06/21/24 09:22
672636011	MCM-AP1-EB-01	Ground Water	06/18/24 18:06	06/21/24 09:22
672636012	MCM-INW-01	Ground Water	06/19/24 14:10	06/21/24 09:22
672636013	MCM-MCM-06	Ground Water	06/19/24 10:15	06/21/24 09:22
672636014	MCM-PT-01	Ground Water	06/19/24 10:20	06/21/24 09:22
672636015	MCM-PT-02	Ground Water	06/18/24 15:57	06/21/24 09:22

672636016	MCM-PT-03	Ground Water	06/18/24 11:56	06/21/24 09:22
672636017	MCM-DR-01	Ground Water	06/18/24 11:33	06/21/24 09:22
672636018	MCM-DR-02	Ground Water	06/18/24 16:03	06/21/24 09:22
672636019	MCM-DR-03	Ground Water	06/19/24 14:16	06/21/24 09:22
672636020	MCM-AP1-FD-01	Ground Water	06/18/24 12:00	06/21/24 09:22

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

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	25-JUN-2024
SW846 7470A Prep	24-JUN-2024
SW846 7470A Prep	25-JUN-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	22-JUN-2024
EPA 300.0	23-JUN-2024
EPA 300.0	24-JUN-2024
EPA 300.0	25-JUN-2024
SM 2320B	21-JUN-2024
SM 2540C	25-JUN-2024
SM 2540C	26-JUN-2024
SW846 3005A/6020B	29-JUN-2024
SW846 3005A/6020B	30-JUN-2024
SW846 7470A	25-JUN-2024
SW846 7470A	26-JUN-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4504.

Sincerely,

Erin Trent
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 672636 GEL Work Order: 672636

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

J Value is estimated

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

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

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

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

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

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

Reviewed by Erin J. Trent

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

Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	672636001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 14:10		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4710	33.5	100	mg/L		500	RXB5	06/23/24	0514	2630581	1
Sulfate		556	66.5	200	mg/L		500					
Fluoride	U	ND	0.165	4.00	mg/L		5	RXB5	06/22/24	1551	2630581	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/25/24	1143	2630731	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Magnesium		314	1.00	3.00	mg/L	1.00	100	PRB	06/29/24	1635	2630949	4
Sodium		2390	8.00	25.0	mg/L	1.00	100					
Boron		0.519	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1734	2630949	5
Calcium		234	0.400	1.00	mg/L	1.00	5					
Potassium		83.6	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1402	2630949	6
Arsenic		0.00780	0.00200	0.00500	mg/L	1.00	1					
Barium		0.282	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.709	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0258	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.238	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000475	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00158	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7990	23.8	100	mg/L			KLP1	06/26/24	1313	2632103	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		231	0.725	2.00	mg/L			JW2	06/21/24	1556	2630454	8
Bicarbonate alkalinity (CaCO3)		231	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	672636001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/24/24	1145	2630725
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-06
Sample ID: 672636002
Matrix: WG
Collect Date: 19-JUN-24 10:15
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.439	0.165	4.00	mg/L		5	RXB5	06/22/24	1724	2630581	1
Chloride		2180	33.5	100	mg/L		500	RXB5	06/23/24	0646	2630581	2
Sulfate		269	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/25/24	1144	2630731	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Sodium		1260	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1643	2630949	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1427	2630949	5
Arsenic		0.0776	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0528	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0721	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0391	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.0960	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000894	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.645	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1745	2630949	6
Calcium		85.3	0.400	1.00	mg/L	1.00	5					
Magnesium		150	0.0500	0.150	mg/L	1.00	5					
Potassium		59.3	0.400	1.50	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4360	23.8	100	mg/L			KLP1	06/26/24	1313	2632103	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		309	0.725	2.00	mg/L			JW2	06/21/24	1559	2630454	8
Bicarbonate alkalinity (CaCO3)		309	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	672636002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/24/24	1145	2630725
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-PT-01
Sample ID: 672636003
Matrix: WG
Collect Date: 19-JUN-24 10:20
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.283	0.165	4.00	mg/L		5	RXB5	06/22/24	1927	2630581	1
Chloride		3570	33.5	100	mg/L		500	RXB5	06/23/24	0850	2630581	2
Sulfate		454	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/25/24	1149	2630731	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1431	2630949	4
Arsenic		0.0132	0.00200	0.00500	mg/L	1.00	1					
Barium		0.725	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.244	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0237	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.285	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000619	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.657	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1747	2630949	5
Calcium		169	0.400	1.00	mg/L	1.00	5					
Magnesium		228	0.0500	0.150	mg/L	1.00	5					
Potassium		71.8	0.400	1.50	mg/L	1.00	5					
Sodium		1740	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1646	2630949	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6380	23.8	100	mg/L			KLP1	06/26/24	1313	2632103	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		232	0.725	2.00	mg/L			JW2	06/21/24	1601	2630454	8
Bicarbonate alkalinity (CaCO3)		232	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-PT-01
Sample ID: 672636003
Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/24/24	1145	2630725

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-PT-02
Sample ID: 672636004
Matrix: WG
Collect Date: 18-JUN-24 15:57
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3140	33.5	100	mg/L		500	RXB5	06/23/24	0921	2630581	1
Sulfate		379	66.5	200	mg/L		500					
Fluoride	J	0.289	0.165	4.00	mg/L		5	RXB5	06/22/24	1958	2630581	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/25/24	1151	2630731	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Sodium		1570	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1652	2630949	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1434	2630949	5
Arsenic		0.0180	0.00200	0.00500	mg/L	1.00	1					
Barium		0.517	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		1.98	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0191	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.357	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000531	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.539	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1753	2630949	6
Calcium		142	0.400	1.00	mg/L	1.00	5					
Magnesium		207	0.0500	0.150	mg/L	1.00	5					
Potassium		61.9	0.400	1.50	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5610	23.8	100	mg/L			KLP1	06/25/24	1458	2631495	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		222	0.725	2.00	mg/L			JW2	06/21/24	1603	2630454	8
Bicarbonate alkalinity (CaCO3)		222	0.725	2.00	mg/L							

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

Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-PT-02 Project: GPCC00105
Sample ID: 672636004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/24/24	1145	2630725

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-PT-03
Sample ID: 672636005
Matrix: WG
Collect Date: 18-JUN-24 11:56
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3390	33.5	100	mg/L		500	RXB5	06/23/24	0951	2630581	1
Sulfate		425	66.5	200	mg/L		500					
Fluoride	J	0.287	0.165	4.00	mg/L		5	RXB5	06/22/24	2029	2630581	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/25/24	1153	2630731	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.572	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1755	2630949	4
Calcium		156	0.400	1.00	mg/L	1.00	5					
Magnesium		218	0.0500	0.150	mg/L	1.00	5					
Potassium		64.0	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1438	2630949	5
Arsenic		0.0601	0.00200	0.00500	mg/L	1.00	1					
Barium		0.356	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		1.71	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0256	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.106	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000706	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		1750	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1654	2630949	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6060	23.8	100	mg/L			KLP1	06/25/24	1458	2631495	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		215	0.725	2.00	mg/L			JW2	06/21/24	1605	2630454	8
Bicarbonate alkalinity (CaCO3)		215	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-PT-03 Project: GPCC00105
Sample ID: 672636005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/24/24	1145	2630725

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-DR-01
Sample ID: 672636006
Matrix: WG
Collect Date: 18-JUN-24 11:33
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3210	33.5	100	mg/L		500	RXB5	06/23/24	1022	2630581	1
Sulfate		399	66.5	200	mg/L		500					
Fluoride	J	0.330	0.165	4.00	mg/L		5	RXB5	06/22/24	2100	2630581	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/25/24	1154	2630731	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.637	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1757	2630949	4
Calcium		126	0.400	1.00	mg/L	1.00	5					
Magnesium		210	0.0500	0.150	mg/L	1.00	5					
Potassium		66.9	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1441	2630949	5
Arsenic		0.0342	0.00200	0.00500	mg/L	1.00	1					
Barium		0.258	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.514	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0358	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.155	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000624	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		1730	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1656	2630949	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5980	23.8	100	mg/L			KLP1	06/25/24	1458	2631495	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		259	0.725	2.00	mg/L			JW2	06/21/24	1607	2630454	8
Bicarbonate alkalinity (CaCO3)		259	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-DR-01 Project: GPCC00105
Sample ID: 672636006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/24/24	1145	2630725

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-DR-02
Sample ID: 672636007
Matrix: WG
Collect Date: 18-JUN-24 16:03
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.488	0.165	4.00	mg/L		5	RXB5	06/22/24	2131	2630581	1
Chloride		2400	33.5	100	mg/L		500	RXB5	06/23/24	1053	2630581	2
Sulfate		320	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/25/24	1156	2630731	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1445	2630949	4
Arsenic		0.0482	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0703	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.967	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0400	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.0841	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000792	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.830	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1759	2630949	5
Calcium		88.3	0.400	1.00	mg/L	1.00	5					
Magnesium		144	0.0500	0.150	mg/L	1.00	5					
Potassium		59.2	0.400	1.50	mg/L	1.00	5					
Sodium		1490	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1658	2630949	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4740	23.8	100	mg/L			KLP1	06/25/24	1458	2631495	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		318	0.725	2.00	mg/L			JW2	06/21/24	1609	2630454	8
Bicarbonate alkalinity (CaCO3)		318	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-DR-02 Project: GPCC00105
Sample ID: 672636007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/24/24	1145	2630725

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-DR-03
Sample ID: 672636008
Matrix: WG
Collect Date: 19-JUN-24 14:16
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.366	0.0330	4.00	mg/L		1	RXB5	06/22/24	1450	2630581	1
Chloride		1880	33.5	100	mg/L		500	RXB5	06/23/24	1124	2630581	2
Sulfate		268	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/25/24	1157	2630731	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Sodium		1260	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1700	2630949	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1448	2630949	5
Arsenic		0.0142	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0229	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.116	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0402	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.147	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000468	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.878	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1801	2630949	6
Calcium		57.9	0.400	1.00	mg/L	1.00	5					
Magnesium		96.9	0.0500	0.150	mg/L	1.00	5					
Potassium		50.7	0.400	1.50	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4010	23.8	100	mg/L			KLP1	06/26/24	1313	2632103	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		343	0.725	2.00	mg/L			JW2	06/21/24	1612	2630454	8
Bicarbonate alkalinity (CaCO3)		339	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	672636008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)		4.00	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/24/24	1145	2630725
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-AP1-FD-01
Sample ID: 672636009
Matrix: WG
Collect Date: 18-JUN-24 12:00
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.713	0.330	4.00	mg/L		10	RXB5	06/25/24	2037	2630581	1
Sulfate		252	13.3	40.0	mg/L		100	RXB5	06/22/24	2202	2630581	2
Chloride		2230	33.5	100	mg/L		500	RXB5	06/24/24	1328	2630581	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/25/24	1159	2630731	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.811	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1803	2630949	5
Calcium		84.6	0.400	1.00	mg/L	1.00	5					
Magnesium		139	0.0500	0.150	mg/L	1.00	5					
Potassium		57.0	0.400	1.50	mg/L	1.00	5					
Sodium		1410	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1702	2630949	6
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1452	2630949	7
Arsenic		0.0493	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0673	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.730	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0391	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.0814	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000836	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4390	23.8	100	mg/L			KLP1	06/25/24	1458	2631495	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		317	0.725	2.00	mg/L			JW2	06/21/24	1616	2630454	9
Bicarbonate alkalinity (CaCO3)		317	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	672636009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/24/24	1145	2630725

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-AP1-FB-01
Sample ID: 672636010
Matrix: WQ
Collect Date: 18-JUN-24 18:20
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	RXB5	06/22/24	2232	2630581	1
Fluoride	U	ND	0.0330	4.00	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/25/24	1201	2630731	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1455	2630949	3
Arsenic	J	0.00499	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	J	0.0143	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	J	0.0923	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	06/30/24	1211	2630949	4
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	4.00	2.38	10.0	mg/L			KLP1	06/25/24	1458	2631495	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	06/21/24	1616	2630454	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	672636010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/24/24	1145	2630725
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-AP1-EB-01
Sample ID: 672636011
Matrix: WQ
Collect Date: 18-JUN-24 18:06
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	RXB5	06/22/24	2303	2630581	1
Fluoride	U	ND	0.0330	4.00	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/26/24	1118	2631142	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1506	2630949	3
Arsenic	J	0.00392	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	06/30/24	1213	2630949	4
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	06/25/24	1458	2631495	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	06/21/24	1617	2630454	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-AP1-EB-01 Project: GPCC00105
Sample ID: 672636011 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/25/24	1110	2631141
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	672636012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 14:10		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/26/24	1120	2631142	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1510	2630949	2
Arsenic		0.00981	0.00200	0.00500	mg/L	1.00	1					
Barium		0.304	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.553	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0261	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.244	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00205	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.518	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1805	2630949	3
Calcium		222	0.400	1.00	mg/L	1.00	5					
Potassium		79.9	0.400	1.50	mg/L	1.00	5					
Magnesium		288	1.00	3.00	mg/L	1.00	100	PRB	06/29/24	1704	2630949	4
Sodium		2220	8.00	25.0	mg/L	1.00	100					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/25/24	1110	2631141
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948

The following Analytical Methods were performed:

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

Notes:

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	672636012	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	672636013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 10:15		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/26/24	1121	2631142	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Sodium		1250	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1706	2630949	2
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1513	2630949	3
Arsenic		0.0897	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0560	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0661	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0412	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.102	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000389	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.676	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1807	2630949	4
Calcium		87.9	0.400	1.00	mg/L	1.00	5					
Magnesium		154	0.0500	0.150	mg/L	1.00	5					
Potassium		61.4	0.400	1.50	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/25/24	1110	2631141

The following Analytical Methods were performed:

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

Notes:

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	672636013	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	672636014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 10:20		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/26/24	1123	2631142	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Sodium		1720	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1713	2630949	2
Boron		0.665	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1814	2630949	3
Calcium		170	0.400	1.00	mg/L	1.00	5					
Magnesium		231	0.0500	0.150	mg/L	1.00	5					
Potassium		72.1	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1517	2630949	4
Arsenic		0.0117	0.00200	0.00500	mg/L	1.00	1					
Barium		0.671	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.148	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0226	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.265	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000358	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/25/24	1110	2631141

The following Analytical Methods were performed:

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

Notes:

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	672636014	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	672636015	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 15:57		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/26/24	1125	2631142	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1520	2630949	2
Arsenic		0.0146	0.00200	0.00500	mg/L	1.00	1					
Barium		0.498	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		1.89	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0181	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.339	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000249	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.554	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1816	2630949	3
Calcium		151	0.400	1.00	mg/L	1.00	5					
Magnesium		219	0.0500	0.150	mg/L	1.00	5					
Potassium		63.7	0.400	1.50	mg/L	1.00	5					
Sodium		1660	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1715	2630949	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/25/24	1110	2631141

The following Analytical Methods were performed:

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

Notes:

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	672636015	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	672636016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 11:56		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/26/24	1126	2631142	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1524	2630949	2
Arsenic		0.0469	0.00200	0.00500	mg/L	1.00	1					
Barium		0.351	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium		0.0173	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.925	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0256	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.105	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000620	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.596	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1818	2630949	3
Calcium		165	0.400	1.00	mg/L	1.00	5					
Magnesium		234	0.0500	0.150	mg/L	1.00	5					
Potassium		67.4	0.400	1.50	mg/L	1.00	5					
Sodium		1810	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1717	2630949	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/25/24	1110	2631141

The following Analytical Methods were performed:

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

Notes:

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	672636016	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	672636017	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 11:33		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/26/24	1128	2631142	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1527	2630949	2
Arsenic		0.0311	0.00200	0.00500	mg/L	1.00	1					
Barium		0.241	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.319	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0344	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.142	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000424	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.643	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1820	2630949	3
Calcium		129	0.400	1.00	mg/L	1.00	5					
Magnesium		216	0.0500	0.150	mg/L	1.00	5					
Potassium		67.8	0.400	1.50	mg/L	1.00	5					
Sodium		1740	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1719	2630949	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/25/24	1110	2631141
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948

The following Analytical Methods were performed:

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

Notes:

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	672636017	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-DR-02
Sample ID: 672636018
Matrix: WG
Collect Date: 18-JUN-24 16:03
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/26/24	1129	2631142	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1531	2630949	2
Arsenic		0.0481	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0752	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.237	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0408	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.0835	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000505	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		1440	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1721	2630949	3
Boron		0.808	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1822	2630949	4
Calcium		87.7	0.400	1.00	mg/L	1.00	5					
Magnesium		143	0.0500	0.150	mg/L	1.00	5					
Potassium		57.8	0.400	1.50	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/25/24	1110	2631141
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948

The following Analytical Methods were performed:

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

Notes:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	672636018	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-DR-03
Sample ID: 672636019
Matrix: WG
Collect Date: 19-JUN-24 14:16
Receive Date: 21-JUN-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/26/24	1135	2631142	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Sodium		1260	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1723	2630949	2
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1535	2630949	3
Arsenic		0.0136	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0231	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0657	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0400	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.147	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000306	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.880	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1824	2630949	4
Calcium		57.1	0.400	1.00	mg/L	1.00	5					
Magnesium		95.7	0.0500	0.150	mg/L	1.00	5					
Potassium		50.2	0.400	1.50	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/25/24	1110	2631141
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948

The following Analytical Methods were performed:

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

Notes:

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	672636019	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	672636020	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 12:00		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	06/26/24	1136	2631142	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Boron		0.782	0.0260	0.0750	mg/L	1.00	5	PRB	06/29/24	1826	2630949	2
Calcium		87.2	0.400	1.00	mg/L	1.00	5					
Magnesium		140	0.0500	0.150	mg/L	1.00	5					
Potassium		56.3	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	06/29/24	1538	2630949	3
Arsenic		0.0449	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0731	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.233	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0386	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.0798	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000542	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		1400	8.00	25.0	mg/L	1.00	100	PRB	06/29/24	1725	2630949	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	06/25/24	1525	2630948
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	06/25/24	1110	2631141

The following Analytical Methods were performed:

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

Notes:

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Certificate of Analysis

Report Date: July 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	672636020	Client ID:	GPCC001

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

Column headers are defined as follows:

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

QC Summary

Report Date: July 11, 2024

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

Contact: **Kristen Jurinko**

Workorder: **672636**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography													
Batch 2630581													
QC1205769497 672636001 DUP													
Chloride			4710		4730	mg/L	0.44			(0%-20%)	RXB5	06/23/24	05:44
Fluoride		U	ND	U	ND	mg/L	N/A					06/22/24	16:22
Sulfate			556		557	mg/L	0.18	^		(+/-200)		06/23/24	05:44
QC1205769494 LCS													
Chloride	5.00				4.60	mg/L			92	(90%-110%)		06/22/24	14:19
Fluoride	2.50				2.39	mg/L			95.4	(90%-110%)			
Sulfate	10.0				9.39	mg/L			93.9	(90%-110%)			
QC1205769493 MB													
Chloride				U	ND	mg/L						06/22/24	13:48
Fluoride				U	ND	mg/L							
Sulfate				U	ND	mg/L							
QC1205769498 672636001 PS													
Chloride	5.00		9.43		15.1	mg/L			114*	(90%-110%)		06/23/24	06:15
Fluoride	2.50	U	ND		2.29	mg/L			91.8	(90%-110%)		06/22/24	16:53
Sulfate	10.0		1.11		10.5	mg/L			93.6	(90%-110%)		06/23/24	06:15

QC Summary

Workorder: **672636**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2630949										
QC1205770462 LCS										
Antimony	0.0500			0.0492	mg/L		98.4	(80%-120%)	PRB	06/29/24 13:58
Arsenic	0.0500			0.0488	mg/L		97.7	(80%-120%)		
Barium	0.0500			0.0506	mg/L		101	(80%-120%)		
Beryllium	0.0500			0.0502	mg/L		100	(80%-120%)		
Boron	0.100			0.102	mg/L		102	(80%-120%)		06/29/24 16:33
Cadmium	0.0500			0.0507	mg/L		101	(80%-120%)		06/29/24 13:58
Calcium	2.00			2.10	mg/L		105	(80%-120%)		06/29/24 16:33
Chromium	0.0500			0.0475	mg/L		94.9	(80%-120%)		06/29/24 13:58
Cobalt	0.0500			0.0479	mg/L		95.8	(80%-120%)		
Iron	2.00			1.89	mg/L		94.3	(80%-120%)		
Lead	0.0500			0.0503	mg/L		101	(80%-120%)		
Lithium	0.0500			0.0476	mg/L		95.1	(80%-120%)		
Magnesium	2.00			1.96	mg/L		98.2	(80%-120%)		06/29/24 16:33
Manganese	0.0500			0.0474	mg/L		94.8	(80%-120%)		06/29/24 13:58

QC Summary

Workorder: **672636**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2630949										
Molybdenum	0.0500			0.0526	mg/L		105	(80%-120%)	PRB	06/29/24 13:58
Potassium	2.00			1.92	mg/L		96.1	(80%-120%)		06/29/24 16:33
Selenium	0.0500			0.0491	mg/L		98.2	(80%-120%)		06/29/24 13:58
Sodium	2.00			2.03	mg/L		101	(80%-120%)		06/29/24 16:33
Thallium	0.0500			0.0477	mg/L		95.3	(80%-120%)		06/29/24 13:58
QC1205770461 MB										
Antimony			U	ND	mg/L					06/29/24 13:55
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					06/29/24 16:31
Cadmium			U	ND	mg/L					06/29/24 13:55
Calcium			U	ND	mg/L					06/29/24 16:31
Chromium			U	ND	mg/L					06/29/24 13:55
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **672636**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2630949										
Iron			U	ND	mg/L				PRB	06/29/24 13:55
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					06/29/24 16:31
Manganese			U	ND	mg/L					06/29/24 13:55
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					06/29/24 16:31
Selenium			U	ND	mg/L					06/29/24 13:55
Sodium			U	ND	mg/L					06/29/24 16:31
Thallium			U	ND	mg/L					06/29/24 13:55
QC1205770463 672636001 MS										
Antimony	0.0500	U	ND	0.0485	mg/L		96.7	(75%-125%)		06/29/24 14:06
Arsenic	0.0500		0.00780	0.0530	mg/L		90.4	(75%-125%)		
Barium	0.0500		0.282	0.337	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND	0.0439	mg/L		87.8	(75%-125%)		

QC Summary

Workorder: **672636**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2630949											
Boron	0.100		0.519		0.625	mg/L		N/A	(75%-125%)	PRB	06/29/24 17:36
Cadmium	0.0500	U	ND		0.0447	mg/L		89.4	(75%-125%)		06/29/24 14:06
Calcium	2.00		234		235	mg/L		N/A	(75%-125%)		06/29/24 17:36
Chromium	0.0500	U	ND		0.0458	mg/L		88.7	(75%-125%)		06/29/24 14:06
Cobalt	0.0500	U	ND		0.0427	mg/L		85.3	(75%-125%)		
Iron	2.00		0.709		2.42	mg/L		85.7	(75%-125%)		
Lead	0.0500	U	ND		0.0440	mg/L		87.9	(75%-125%)		
Lithium	0.0500		0.0258		0.0671	mg/L		82.6	(75%-125%)		
Magnesium	2.00		314		317	mg/L		N/A	(75%-125%)		06/29/24 16:37
Manganese	0.0500		0.238		0.283	mg/L		N/A	(75%-125%)		06/29/24 14:06
Molybdenum	0.0500	J	0.000475		0.0560	mg/L		111	(75%-125%)		
Potassium	2.00		83.6		86.1	mg/L		N/A	(75%-125%)		06/29/24 17:36
Selenium	0.0500	J	0.00158		0.0319	mg/L		60.7*	(75%-125%)		06/29/24 14:06
Sodium	2.00		2390		2420	mg/L		N/A	(75%-125%)		06/29/24 16:37

QC Summary

Workorder: **672636**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2630949											
Thallium	0.0500	U	ND		0.0428	mg/L		85.7	(75%-125%)	PRB	06/29/24 14:06
QC1205770464 672636001 MSD											
Antimony	0.0500	U	ND		0.0487	mg/L	0.457	97.1	(0%-20%)		06/29/24 14:09
Arsenic	0.0500		0.00780		0.0529	mg/L	0.217	90.2	(0%-20%)		
Barium	0.0500		0.282		0.341	mg/L	1.24	N/A	(0%-20%)		
Beryllium	0.0500	U	ND		0.0437	mg/L	0.486	87.4	(0%-20%)		
Boron	0.100		0.519		0.618	mg/L	1.08	N/A	(0%-20%)		06/29/24 17:38
Cadmium	0.0500	U	ND		0.0450	mg/L	0.559	89.9	(0%-20%)		06/29/24 14:09
Calcium	2.00		234		235	mg/L	0.104	N/A	(0%-20%)		06/29/24 17:38
Chromium	0.0500	U	ND		0.0458	mg/L	0.00218	88.7	(0%-20%)		06/29/24 14:09
Cobalt	0.0500	U	ND		0.0426	mg/L	0.23	85.1	(0%-20%)		
Iron	2.00		0.709		2.45	mg/L	1.13	87.1	(0%-20%)		
Lead	0.0500	U	ND		0.0434	mg/L	1.23	86.9	(0%-20%)		
Lithium	0.0500		0.0258		0.0677	mg/L	0.958	83.9	(0%-20%)		
Magnesium	2.00		314		312	mg/L	1.58	N/A	(0%-20%)		06/29/24 16:39

QC Summary

Workorder: **672636**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2630949											
Manganese	0.0500		0.238		0.286	mg/L	1.19	N/A	(0%-20%)	PRB	06/29/24 14:09
Molybdenum	0.0500	J	0.000475		0.0554	mg/L	1.2	110	(0%-20%)		
Potassium	2.00		83.6		85.5	mg/L	0.732	N/A	(0%-20%)		06/29/24 17:38
Selenium	0.0500	J	0.00158		0.0308	mg/L	3.59	58.4*	(0%-20%)		06/29/24 14:09
Sodium	2.00		2390		2380	mg/L	1.82	N/A	(0%-20%)		06/29/24 16:39
Thallium	0.0500	U	ND		0.0422	mg/L	1.56	84.4	(0%-20%)		06/29/24 14:09
QC1205776174 672636001 PS											
Selenium	50.0	J	1.58		49.5	ug/L		95.9	(75%-125%)		06/29/24 14:13
QC1205770465 672636001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		06/29/24 14:16
Arsenic			7.80	J	3.09	ug/L	98.4		(0%-20%)		
Barium			282		58.2	ug/L	3.31		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			104		22.9	ug/L	10.4		(0%-20%)		06/29/24 17:43
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		06/29/24 14:16
Calcium			46800		9490	ug/L	1.39		(0%-20%)		06/29/24 17:43

QC Summary

Workorder: **672636**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2630949										
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	06/29/24 14:16
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Iron		709		148	ug/L	4.19		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		25.8	J	5.34	ug/L	3.49		(0%-20%)		
Magnesium		3140		601	ug/L	4.49		(0%-20%)		06/29/24 16:41
Manganese		238		50.2	ug/L	5.45		(0%-20%)		06/29/24 14:16
Molybdenum	J	0.475	U	ND	ug/L	N/A		(0%-20%)		
Potassium		16700		3460	ug/L	3.52		(0%-20%)		06/29/24 17:43
Selenium	J	1.58	U	ND	ug/L	N/A		(0%-20%)		06/29/24 14:16
Sodium		23900		4750	ug/L	.74		(0%-20%)		06/29/24 16:41
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		06/29/24 14:16
Metals Analysis-Mercury										
Batch 2630731										
QC1205769930 672641005 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	06/25/24 12:12

QC Summary

Workorder: **672636**

Parmname			NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury														
Batch 2630731														
QC1205769929 LCS														
Mercury			0.00200				0.00201	mg/L		100	(80%-120%)	JP2	06/25/24	11:33
QC1205769928 MB														
Mercury						U	ND	mg/L					06/25/24	11:31
QC1205769931	672641005	MS												
Mercury			0.00200	U	ND		0.00200	mg/L		100	(75%-125%)		06/25/24	12:14
QC1205769932	672641005	SDILT												
Mercury				U	ND	U	ND	ug/L	N/A		(0%-10%)		06/25/24	12:16
Batch 2631142														
QC1205770984	672344001	DUP												
Mercury				U	ND	U	ND	mg/L	N/A			JP2	06/26/24	11:00
QC1205770983 LCS														
Mercury			0.00200				0.00192	mg/L		96	(80%-120%)		06/26/24	10:57
QC1205770982 MB														
Mercury						U	ND	mg/L					06/26/24	10:55
QC1205770985	672344001	MS												
Mercury			0.00200	U	ND		0.00194	mg/L		96.8	(75%-125%)		06/26/24	11:02
QC1205770986	672344001	SDILT												
Mercury				U	ND	U	ND	ug/L	N/A		(0%-10%)		06/26/24	11:03
Solids Analysis														
Batch 2631495														
QC1205771674	672638006	DUP												
Total Dissolved Solids					1090		1100	mg/L	0.458		(0%-5%)	KLP1	06/25/24	14:58

QC Summary

Workorder: 672636

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2631495										
QC1205771673 LCS										
Total Dissolved Solids	300			302	mg/L		101	(95%-105%)	KLP1	06/25/24 14:58
QC1205771672 MB										
Total Dissolved Solids			U	ND	mg/L					06/25/24 14:58
Batch 2632103										
QC1205772840 672534002 DUP										
Total Dissolved Solids		359		352	mg/L	1.97		(0%-5%)	KLP1	06/26/24 13:13
QC1205772839 LCS										
Total Dissolved Solids	300			302	mg/L		101	(95%-105%)		06/26/24 13:13
QC1205772838 MB										
Total Dissolved Solids			U	ND	mg/L					06/26/24 13:13
Titration and Ion Analysis										
Batch 2630454										
QC1205769402 672636001 DUP										
Alkalinity, Total as CaCO3		231		231	mg/L	0.173		(0%-20%)	JW2	06/21/24 15:57
Bicarbonate alkalinity (CaCO3)		231		231	mg/L	0.173		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1205769427 672636008 DUP										
Alkalinity, Total as CaCO3		343		344	mg/L	0.116		(0%-20%)		06/21/24 16:13
Bicarbonate alkalinity (CaCO3)		339		339	mg/L	0		(0%-20%)		
Carbonate alkalinity (CaCO3)		4.00		4.40	mg/L	9.52	^	(+/-2.00)		

QC Summary

Workorder: **672636**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2630454											
QC1205769300 LCS											
Alkalinity, Total as CaCO3	50.0			51.1	mg/L		102	(90%-110%)	JW2	06/21/24	15:45
QC1205769301 LCS											
Alkalinity, Total as CaCO3	15.0			14.8	mg/L		98.7	(90%-110%)		06/21/24	15:47
QC1205769405 672636008 MS											
Alkalinity, Total as CaCO3	50.0	343		394	mg/L		N/A	(80%-120%)		06/21/24	16:15
QC1205769428 672636001 MS											
Alkalinity, Total as CaCO3	50.0	231		282	mg/L		N/A	(80%-120%)		06/21/24	15:58

Notes:

The Qualifiers in this report are defined as follows:

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

QC Summary

Workorder: **672636**

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

N1 See case narrative

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

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

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

J See case narrative for an explanation

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

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

Technical Case Narrative
Georgia Power Company
SDG #: 672636

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2630949

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2630948

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

GEL Sample ID#	Client Sample Identification
672636001	MCM-INW-01
672636002	MCM-MCM-06
672636003	MCM-PT-01
672636004	MCM-PT-02
672636005	MCM-PT-03
672636006	MCM-DR-01
672636007	MCM-DR-02
672636008	MCM-DR-03
672636009	MCM-AP1-FD-01
672636010	MCM-AP1-FB-01
672636011	MCM-AP1-EB-01
672636012	MCM-INW-01
672636013	MCM-MCM-06
672636014	MCM-PT-01
672636015	MCM-PT-02
672636016	MCM-PT-03
672636017	MCM-DR-01
672636018	MCM-DR-02
672636019	MCM-DR-03
672636020	MCM-AP1-FD-01
1205770461	Method Blank (MB)**ICP-MS**
1205770462	Laboratory Control Sample (LCS)
1205770465	672636001(MCM-INW-01L) Serial Dilution (SD)
1205770463	672636001(MCM-INW-01S) Matrix Spike (MS)
1205770464	672636001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)
1205776174	672636001(MCM-INW-01PS) Post Spike (PS)

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

Data Summary:

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

Calibration Information

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

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analytes. The post spike recoveries were within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recoveries may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1205770463 (MCM-INW-01MS)	Selenium	60.7* (75%-125%)
1205770464 (MCM-INW-01MSD)	Selenium	58.4* (75%-125%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 672636001 (MCM-INW-01), 672636002 (MCM-MCM-06), 672636003 (MCM-PT-01), 672636004 (MCM-PT-02), 672636005 (MCM-PT-03), 672636006 (MCM-DR-01), 672636007 (MCM-DR-02), 672636008 (MCM-DR-03), 672636009 (MCM-AP1-FD-01), 672636012 (MCM-INW-01), 672636013 (MCM-MCM-06), 672636014 (MCM-PT-01), 672636015 (MCM-PT-02), 672636016 (MCM-PT-03), 672636017 (MCM-DR-01), 672636018 (MCM-DR-02), 672636019 (MCM-DR-03) and 672636020 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	672636									
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**012**
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Calcium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Magnesium	100X	5X	5X	5X	5X	5X	5X	5X	5X	100X
Potassium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Sodium	100X	100X	100X	100X	100X	100X	100X	100X	100X	100X

Analyte	672636							
	013	**014**	**015**	**016**	**017**	**018**	**019**	**020**
Boron	5X	5X	5X	5X	5X	5X	5X	5X
Calcium	5X	5X	5X	5X	5X	5X	5X	5X
Magnesium	5X	5X	5X	5X	5X	5X	5X	5X
Potassium	5X	5X	5X	5X	5X	5X	5X	5X
Sodium	100X	100X	100X	100X	100X	100X	100X	100X

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

Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2630731

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2630725

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

GEL Sample ID#	Client Sample Identification
672636001	MCM-INW-01
672636002	MCM-MCM-06
672636003	MCM-PT-01
672636004	MCM-PT-02
672636005	MCM-PT-03
672636006	MCM-DR-01
672636007	MCM-DR-02
672636008	MCM-DR-03
672636009	MCM-AP1-FD-01
672636010	MCM-AP1-FB-01
1205769928	Method Blank (MB)**CVAA**
1205769929	Laboratory Control Sample (LCS)
1205769932	672641005(NonSDGL) Serial Dilution (SD)
1205769930	672641005(NonSDGD) Sample Duplicate (DUP)
1205769931	672641005(NonSDGS) Matrix Spike (MS)

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

Data Summary:

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

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2631142

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2631141

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

GEL Sample ID#	Client Sample Identification
672636011	MCM-AP1-EB-01
672636012	MCM-INW-01
672636013	MCM-MCM-06
672636014	MCM-PT-01
672636015	MCM-PT-02
672636016	MCM-PT-03
672636017	MCM-DR-01

672636018	MCM-DR-02
672636019	MCM-DR-03
672636020	MCM-AP1-FD-01
1205770982	Method Blank (MB)**CVAA**
1205770983	Laboratory Control Sample (LCS)
1205770986	672344001(NonSDGL) Serial Dilution (SD)
1205770984	672344001(NonSDGD) Sample Duplicate (DUP)
1205770985	672344001(NonSDGS) Matrix Spike (MS)

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

Data Summary:

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

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2630581

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

GEL Sample ID#	Client Sample Identification
672636001	MCM-INW-01
672636002	MCM-MCM-06
672636003	MCM-PT-01
672636004	MCM-PT-02
672636005	MCM-PT-03
672636006	MCM-DR-01
672636007	MCM-DR-02
672636008	MCM-DR-03
672636009	MCM-AP1-FD-01
672636010	MCM-AP1-FB-01
672636011	MCM-AP1-EB-01
1205769493	Method Blank (MB)
1205769494	Laboratory Control Sample (LCS)
1205769497	672636001(MCM-INW-01) Sample Duplicate (DUP)
1205769498	672636001(MCM-INW-01) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less

than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205769498 (MCM-INW-01PS)	114* (90%-110%)

Technical Information

Sample Dilutions
The following samples 672636008 (MCM-DR-03) and 672636009 (MCM-AP1-FD-01) were diluted because target analyte concentrations exceeded the calibration range. Samples 1205769497 (MCM-INW-01DUP), 1205769498 (MCM-INW-01PS), 672636001 (MCM-INW-01) and 672636009 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Samples 672636001 (MCM-INW-01), 672636002 (MCM-MCM-06), 672636003 (MCM-PT-01), 672636004 (MCM-PT-02), 672636005 (MCM-PT-03), 672636006 (MCM-DR-01), 672636007 (MCM-DR-02) and 672636009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	672636								
	001	002	003	004	005	006	007	008	009
Chloride	500X	500X	500X	500X	500X	500X	500X	500X	500X
Fluoride	5X	5X	5X	5X	5X	5X	5X	1X	10X
Sulfate	500X	500X	500X	500X	500X	500X	500X	500X	100X

Miscellaneous Information

Manual Integrations
Samples 1205769497 (MCM-INW-01DUP), 1205769498 (MCM-INW-01PS), 672636001 (MCM-INW-01) and 672636008 (MCM-DR-03) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2631495

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

GEL Sample ID#	Client Sample Identification
672636004	MCM-PT-02
672636005	MCM-PT-03
672636006	MCM-DR-01
672636007	MCM-DR-02
672636009	MCM-AP1-FD-01
672636010	MCM-AP1-FB-01
672636011	MCM-AP1-EB-01
1205771672	Method Blank (MB)
1205771673	Laboratory Control Sample (LCS)
1205771674	672638006(NonSDG) Sample Duplicate (DUP)

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

Data Summary:

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

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to matrix interference. 672636004 (MCM-PT-02), 672636005 (MCM-PT-03), 672636006 (MCM-DR-01), 672636007 (MCM-DR-02) and 672636009 (MCM-AP1-FD-01). A TDS meter was used to check the samples for interference prior to analysis. 672636004 (MCM-PT-02), 672636005 (MCM-PT-03), 672636006 (MCM-DR-01), 672636007 (MCM-DR-02) and 672636009 (MCM-AP1-FD-01).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2632103

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

GEL Sample ID#	Client Sample Identification
672636001	MCM-INW-01
672636002	MCM-MCM-06
672636003	MCM-PT-01
672636008	MCM-DR-03
1205772838	Method Blank (MB)
1205772839	Laboratory Control Sample (LCS)
1205772840	672534002(NonSDG) Sample Duplicate (DUP)

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

Data Summary:

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

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to matrix interference. 672636001 (MCM-INW-01), 672636002 (MCM-MCM-06), 672636003 (MCM-PT-01) and 672636008 (MCM-DR-03). A TDS meter was used to check the samples for interference prior to analysis. 672636001 (MCM-INW-01), 672636002 (MCM-MCM-06), 672636003 (MCM-PT-01) and 672636008 (MCM-DR-03).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2630454

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

GEL Sample ID#	Client Sample Identification
672636001	MCM-INW-01
672636002	MCM-MCM-06
672636003	MCM-PT-01
672636004	MCM-PT-02
672636005	MCM-PT-03
672636006	MCM-DR-01
672636007	MCM-DR-02
672636008	MCM-DR-03
672636009	MCM-AP1-FD-01
672636010	MCM-AP1-FB-01
672636011	MCM-AP1-EB-01
1205769300	Laboratory Control Sample (LCS)
1205769301	Laboratory Control Sample (LCS)
1205769402	672636001(MCM-INW-01) Sample Duplicate (DUP)
1205769405	672636008(MCM-DR-03) Matrix Spike (MS)
1205769427	672636008(MCM-DR-03) Sample Duplicate (DUP)
1205769428	672636001(MCM-INW-01) Matrix Spike (MS)

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

Data Summary:

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

Certification Statement

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

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

672636

Chain of Custody and Analytical Request

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

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

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus Baseline Sampling June 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (Resolute Environmental) Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Totals Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)	Comments
MCM-INW-01	6/19/24	1410	G	Y*	WG			3	X	X	X	X	X		Note: extra sample is required for sample specific QC
MCM-MCM-06	6/19/24	1015	G	Y*	WG			3	X	X	X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl
MCM-PT-01	6/19/24	1020	G	Y*	WG			3	X	X	X	X	X		
MCM-PT-02	6/18/24	1557	G	Y*	WG			3	X	X	X	X	X		
MCM-PT-03	6/18/24	1156	G	Y*	WG			3	X	X	X	X	X		
MCM-DR-01	6/18/24	1133	G	Y*	WG			3	X	X	X	X	X		
MCM-DR-02	6/18/24	1603	G	Y*	WG			3	X	X	X	X	X		
MCM-DR-03	6/19/24	1416	G	Y*	WG			3	X	X	X	X	X		
MCM-AP1-FD-01	6/18/24	—	FD	Y*	WG			3	X	X	X	X	X		
MCM-AP1-FB-01	6/18/24	1820	FB	N	WQ			2	X		X	X	X		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2	6/21/24	9:22	2 Tayasia Tatum	6/21/24	922
3			3		

TAT Requested: Normal: __X__ Rush:_____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

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

Additional Remarks: **Task Code: MCM-CCR-CA-20240617**

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

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

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

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

Dissolved metals are the only Field Filterd Samples

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

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

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus Baseline Sampling June 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Jay Siewert, Natalie Piparo (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Totals Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)	Comments
MCM-AP1-EB-01	6/18/24	1806	EB	N	WQ			25	X		X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl
								5							
								5							
								5							
								5							
								5							
								5							
								5							
								5							
								5							
								5							

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental			1		
2		6/21/24	9:22	2		
3				3		

TAT Requested: Normal: __X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

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

Additional Remarks: **Task Code: MCM-CCR-CA-20240617**

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

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

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

1.) Chain of Custody Number = Client Determined

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

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

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

Dissolved metals are the only Field Filterd Samples

672636

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: STACY BOONE	Date Received: JUNE 21, 2024
	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
Carrier and Tracking Number	

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

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1.6
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR3-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials WJ Date 6/24/24 Page 1 of 1

List of current GEL Certifications as of 11 July 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-08
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 7/10/2024 6:06:24 PM

JOB DESCRIPTION

Plant McManus - Arsenic Speciation

JOB NUMBER

680-252405-1

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
7/10/2024 6:06:24 PM

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

Sample Summary

Client: Southern Company
Job ID: 680-252405-1
Project/Site: Plant McManus - Arsenic Speciation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-252405-1	MCM-INW-01	Water	06/19/24 14:10	06/21/24 11:21
680-252405-2	MCM-MCM-06	Water	06/19/24 10:15	06/21/24 11:21
680-252405-3	MCM-PT-01	Water	06/19/24 10:20	06/21/24 11:21
680-252405-4	MCM-PT-02	Water	06/18/24 15:57	06/21/24 11:21
680-252405-5	MCM-PT-03	Water	06/18/24 11:56	06/21/24 11:21
680-252405-6	MCM-DR-01	Water	06/18/24 11:33	06/21/24 11:21
680-252405-7	MCM-DR-02	Water	06/18/24 16:03	06/21/24 11:21
680-252405-8	MCM-DR-03	Water	06/19/24 14:16	06/21/24 11:21
680-252405-9	MCM-AP1-FD-01	Water	06/18/24 00:00	06/21/24 11:21

Job Narrative
680-252405-1

Receipt
The samples were received on 6/21/2024 11:21 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.1º C.

Subcontract Work
Method Metals Speciation: This method was subcontracted to Brooks Applied Labs LLC. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

BROOKS APPLIED LABS
13751 Lake City Way NE, Ste 108, Seattle, WA 98125 • USA • T:206-632-6206 • info@brooksapplied.com

July 10, 2024

Eurofins Savannah
ATTN: David Fuller
5102 LaRoche Avenue
Savannah, GA 31404
david.fuller@et.eurofinsus.com

RE: Project EUR-SV2201 Client Project: Job#680-252405-1

Dear David Fuller,

On June 25, 2024, Brooks Applied Labs (BAL) received nine (9) water samples at a temperature of 7.5°C. The samples were logged-in for the analyses of arsenic speciation [As(III), As(V), DMA, MMA, and unknown As species] according to the chain-of-custody form. All samples were received and stored according to BAL SOPs and EPA methodology.

All samples were field filtered.

BAL strongly recommends that all samples submitted for arsenic speciation remain at a temperature of ≤ 6°C to maintain sample integrity prior to analysis. Consequently, the As speciation results were qualified (**Z**), indicating that the samples were received above the recommended temperature.

Arsenic Speciation Quantitation by IC-ICP-CRC-MS
Arsenic speciation was performed by ion chromatography inductively coupled plasma collision reaction cell mass spectrometry (IC-ICP-CRC-MS). Arsenic species are first chromatographically separated on an ion exchange column and then quantified using inductively coupled plasma collision reaction cell mass spectrometry (ICP-CRC-MS). For more information on this determinative technique, please visit the Interference Reduction Technology section on our website.

It should be noted that all Brooks Applied Labs, LLC methods, standard operating procedures, inventions, ideas, processes, improvements, designs, and techniques included or referred to therein, must be considered and treated as Proprietary Information, protected by the Washington State Trade Secret Act, RCW 19.108 et seq., and other laws. All Proprietary Information, written or implied, will not be distributed, copied, or altered in any fashion without prior written consent from Brooks Applied Labs, LLC. All Proprietary Information (including originals, copies, summaries, or other reproductions thereof) shall remain the property of Brooks Applied Labs, LLC at all times and must be returned upon demand. Furthermore, products presented in this document may be protected by Federal Patent laws and infringement will be subject to prosecution in accordance with Title 35 US Code 271.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (**N/C**).

The results were not method blank corrected, as described in the calculations section of the relevant BAL SOP(s), and were evaluated using reporting limits adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

All data was reported without further qualification and all other associated quality control sample results met the acceptance criteria.

BAL verifies that the reported results of all analyses for which the laboratory is accredited meet the requirements of the accrediting body, unless otherwise noted in the report narrative. For more information regarding accreditations please see the *Report Information* and *Batch Summary* pages. This report must be used in its entirety for interpretation of results.

Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Amy Goodall
Project Manager
Brooks Applied Labs
amy@brooksapplied.com

Report Information

General Disclaimers

Test results are based solely upon the sample submitted to Brooks Applied Labs in the condition it was received . This report shall not be reproduced or copied, except in full, without written approval of the laboratory. Brooks Applied Labs is not responsible for the consequences arising from the use of a partial report.

Laboratory Accreditation

BAL maintains accreditation with various state and national agencies for select test methods. For a current list of BAL accreditations, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. The reported analyte/matrix/method combination shall be considered outside BAL's scopes of accreditation unless otherwise identified as ISO, TNI, or ISO,TNI in the tables. It is the responsibility of the client to verify whether a specific accreditation is required for the intended data use.

ISO: ISO/IEC 17025:2017 accredited test method. Issued by ANSI National Accreditation Board (ANAB), #ADE-1447.02

TNI: NELAP accredited test method. Issued by the State of Florida Department of Health, #E87982.

ISO,TNI: Test method is accredited under both the ISO/IEC 17025:2017 and NELAP accreditations referenced above.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	**MS**	matrix spike
BAL	Brooks Applied Labs	**MSD**	matrix spike duplicate
BLK	method blank	**ND**	non-detect
BS	blank spike	**NR**	non-reportable
CAL	calibration standard	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
CCV	continuing calibration verification	**REC**	percent recovery
COC	chain of custody record	**RPD**	relative percent difference
D	dissolved fraction	**SCV**	secondary calibration verification
DUP	duplicate	**SOP**	standard operating procedure
IBL	instrument blank	**SRM**	reference material
ICV	initial calibration verification	**T**	total fraction
MDL	method detection limit	**TR**	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

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Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
MCM-INW-01 (680-252405-1)	2406318-01	Water	Sample	06/19/2024	06/25/2024
MCM-MCM-06 (680-252405-2)	2406318-02	Water	Sample	06/19/2024	06/25/2024
MCM-PT-01 (680-252405-3)	2406318-03	Water	Sample	06/19/2024	06/25/2024
MCM-PT-02 (680-252405-4)	2406318-04	Water	Sample	06/18/2024	06/25/2024
MCM-PT-03 (680-252405-5)	2406318-05	Water	Sample	06/18/2024	06/25/2024
MCM-DR-01 (680-252405-6)	2406318-06	Water	Sample	06/18/2024	06/25/2024
MCM-DR-02 (680-252405-7)	2406318-07	Water	Sample	06/18/2024	06/25/2024
MCM-DR-03 (680-252405-8)	2406318-08	Water	Sample	06/19/2024	06/25/2024
MCM-AP1-FD-01 (680-252405-9)	2406318-09	Water	Field Duplicate	06/18/2024	06/25/2024

Batch Summary

Analyte	Lab Matrix	Method	Accred.	Prepared	Analyzed	Batch	Sequence
As(III)	Water	SOP BAL-4100	ISO,TNI	06/25/24	06/26/24	B241457	S240612
As(V)	Water	SOP BAL-4100	ISO,TNI	06/25/24	06/26/24	B241457	S240612
DMAs	Water	SOP BAL-4100	ISO	06/25/24	06/26/24	B241457	S240612
MMAs	Water	SOP BAL-4100	ISO	06/25/24	06/26/24	B241457	S240612
Unk As Sp	Water	SOP BAL-4100		06/25/24	06/26/24	B241457	S240612

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MCM-INW-01 (680-252405-1)										
2406318-01	As(III)	Water	D	≤ 0.800	U Z	0.800	4.20	µg/L	B241457	S240612
2406318-01	As(V)	Water	D	≤ 2.00	Z U	2.00	4.20	µg/L	B241457	S240612
2406318-01	DMAs	Water	D	≤ 1.00	U Z	1.00	4.20	µg/L	B241457	S240612
2406318-01	MMAs	Water	D	≤ 0.800	U Z	0.800	4.20	µg/L	B241457	S240612
2406318-01	Unk As Sp	Water	D	2.76	Z J	1.00	4.20	µg/L	B241457	S240612
MCM-MCM-06 (680-252405-2)										
2406318-02	As(III)	Water	D	0.928	Z J	0.800	4.20	µg/L	B241457	S240612
2406318-02	As(V)	Water	D	≤ 2.00	U Z	2.00	4.20	µg/L	B241457	S240612
2406318-02	DMAs	Water	D	≤ 1.00	U Z	1.00	4.20	µg/L	B241457	S240612
2406318-02	MMAs	Water	D	≤ 0.800	U Z	0.800	4.20	µg/L	B241457	S240612
2406318-02	Unk As Sp	Water	D	121	Z	1.00	4.20	µg/L	B241457	S240612
MCM-PT-01 (680-252405-3)										
2406318-03	As(III)	Water	D	≤ 0.800	U Z	0.800	4.20	µg/L	B241457	S240612
2406318-03	As(V)	Water	D	≤ 2.00	Z U	2.00	4.20	µg/L	B241457	S240612
2406318-03	DMAs	Water	D	≤ 1.00	Z U	1.00	4.20	µg/L	B241457	S240612
2406318-03	MMAs	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-03	Unk As Sp	Water	D	8.48	Z	1.00	4.20	µg/L	B241457	S240612
MCM-PT-02 (680-252405-4)										
2406318-04	As(III)	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-04	As(V)	Water	D	≤ 2.00	Z U	2.00	4.20	µg/L	B241457	S240612
2406318-04	DMAs	Water	D	≤ 1.00	Z U	1.00	4.20	µg/L	B241457	S240612
2406318-04	MMAs	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-04	Unk As Sp	Water	D	19.7	Z	1.00	4.20	µg/L	B241457	S240612
MCM-PT-03 (680-252405-5)										
2406318-05	As(III)	Water	D	4.20	Z J	0.800	4.20	µg/L	B241457	S240612
2406318-05	As(V)	Water	D	≤ 2.00	Z U	2.00	4.20	µg/L	B241457	S240612
2406318-05	DMAs	Water	D	≤ 1.00	Z U	1.00	4.20	µg/L	B241457	S240612
2406318-05	MMAs	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-05	Unk As Sp	Water	D	81.0	Z	1.00	4.20	µg/L	B241457	S240612

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Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MCM-DR-01 (680-252405-6)										
2406318-06	As(III)	Water	D	1.36	Z J	0.800	4.20	µg/L	B241457	S240612
2406318-06	As(V)	Water	D	≤ 2.00	Z U	2.00	4.20	µg/L	B241457	S240612
2406318-06	DMAs	Water	D	≤ 1.00	Z U	1.00	4.20	µg/L	B241457	S240612
2406318-06	MMAs	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-06	Unk As Sp	Water	D	35.9	Z	1.00	4.20	µg/L	B241457	S240612
MCM-DR-02 (680-252405-7)										
2406318-07	As(III)	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-07	As(V)	Water	D	≤ 2.00	Z U	2.00	4.20	µg/L	B241457	S240612
2406318-07	DMAs	Water	D	≤ 1.00	Z U	1.00	4.20	µg/L	B241457	S240612
2406318-07	MMAs	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-07	Unk As Sp	Water	D	66.2	Z	1.00	4.20	µg/L	B241457	S240612
MCM-DR-03 (680-252405-8)										
2406318-08	As(III)	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-08	As(V)	Water	D	≤ 2.00	Z U	2.00	4.20	µg/L	B241457	S240612
2406318-08	DMAs	Water	D	≤ 1.00	Z U	1.00	4.20	µg/L	B241457	S240612
2406318-08	MMAs	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-08	Unk As Sp	Water	D	13.5	Z	1.00	4.20	µg/L	B241457	S240612
MCM-AP1-FD-01 (680-252405-9)										
2406318-09	As(III)	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-09	As(V)	Water	D	≤ 2.00	Z U	2.00	4.20	µg/L	B241457	S240612
2406318-09	DMAs	Water	D	≤ 1.00	Z U	1.00	4.20	µg/L	B241457	S240612
2406318-09	MMAs	Water	D	≤ 0.800	Z U	0.800	4.20	µg/L	B241457	S240612
2406318-09	Unk As Sp	Water	D	66.8	Z	1.00	4.20	µg/L	B241457	S240612

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Accuracy & Precision Summary

Batch: B241457
Lab Matrix: Water
Method: SOP BAL-4100

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B241457-BS1	**Blank Spike, (2331029)**						
	As(III)		5.000	5.406	µg/L	108% 75-125	
	As(V)		5.000	5.107	µg/L	102% 75-125	
B241457-BS2	**Blank Spike, (2306015)**						
	DMAs		5.000	5.577	µg/L	112% 75-125	
	MMAs		4.400	4.626	µg/L	105% 75-125	
B241457-DUP3	**Duplicate, (2406318-09)**						
	As(III)	ND		ND	µg/L		N/C 25
	As(V)	ND		ND	µg/L		N/C 25
	DMAs	ND		ND	µg/L		N/C 25
	MMAs	ND		ND	µg/L		N/C 25
	Unk As Sp	66.75		67.74	µg/L		1% 25
B241457-MS3	**Matrix Spike, (2406318-09)**						
	As(III)	ND	209.0	255.2	µg/L	122% 75-125	
	As(V)	ND	194.2	235.4	µg/L	121% 75-125	
	DMAs	ND	222.2	268.9	µg/L	121% 75-125	
	MMAs	ND	200.0	242.8	µg/L	121% 75-125	
B241457-MSD3	**Matrix Spike Duplicate, (2406318-09)**						
	As(III)	ND	209.0	255.7	µg/L	122% 75-125	0.2% 25
	As(V)	ND	194.2	236.3	µg/L	122% 75-125	0.4% 25
	DMAs	ND	222.2	268.8	µg/L	121% 75-125	0.02% 25
	MMAs	ND	200.0	239.8	µg/L	120% 75-125	1% 25

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Method Blanks & Reporting Limits

Batch: B241457
Matrix: Water
Method: SOP BAL-4100
Analyte: As(III)

Sample	Result	Units
B241457-BLK1	0.00	µg/L
B241457-BLK2	0.00	µg/L
B241457-BLK3	0.00	µg/L
B241457-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.004
MRL: 0.021

Analyte: As(V)

Sample	Result	Units
B241457-BLK1	0.002	µg/L
B241457-BLK2	0.001	µg/L
B241457-BLK3	0.0004	µg/L
B241457-BLK4	0.001	µg/L

Average: 0.001
Limit: 0.021
MDL: 0.010
MRL: 0.021

Analyte: DMAs

Sample	Result	Units
B241457-BLK1	0.00	µg/L
B241457-BLK2	0.00	µg/L
B241457-BLK3	0.00	µg/L
B241457-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.005
MRL: 0.021

Method Blanks & Reporting Limits

Analyte: MMAs

Sample	Result	Units
B241457-BLK1	0.00	µg/L
B241457-BLK2	0.00	µg/L
B241457-BLK3	0.00	µg/L
B241457-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.004
MRL: 0.021

Analyte: Unk As Sp

Sample	Result	Units
B241457-BLK1	0.00	µg/L
B241457-BLK2	0.00	µg/L
B241457-BLK3	0.00	µg/L
B241457-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.005
MRL: 0.021

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Sample Containers

Lab ID: 2406318-01 **Report Matrix:** Water **Collected:** 06/19/2024
Sample: MCM-INW-01 (680-252405-1) **Sample Type:** Sample **Received:** 06/25/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318
B	XTRA_VOL	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318

Lab ID: 2406318-02 **Report Matrix:** Water **Collected:** 06/19/2024
Sample: MCM-MCM-06 (680-252405-2) **Sample Type:** Sample **Received:** 06/25/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318
B	XTRA_VOL	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318

Lab ID: 2406318-03 **Report Matrix:** Water **Collected:** 06/19/2024
Sample: MCM-PT-01 (680-252405-3) **Sample Type:** Sample **Received:** 06/25/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318
B	XTRA_VOL	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318

Lab ID: 2406318-04 **Report Matrix:** Water **Collected:** 06/18/2024
Sample: MCM-PT-02 (680-252405-4) **Sample Type:** Sample **Received:** 06/25/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318
B	XTRA_VOL	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318

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Sample Containers

Lab ID: 2406318-05
Sample: MCM-PT-03 (680-252405-5)
Report Matrix: Water
Sample Type: Sample
Collected: 06/18/2024
Received: 06/25/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318
B	XTRA_VOL	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318

Lab ID: 2406318-06
Sample: MCM-DR-01 (680-252405-6)
Report Matrix: Water
Sample Type: Sample
Collected: 06/18/2024
Received: 06/25/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318
B	XTRA_VOL	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318

Lab ID: 2406318-07
Sample: MCM-DR-02 (680-252405-7)
Report Matrix: Water
Sample Type: Sample
Collected: 06/18/2024
Received: 06/25/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318
B	XTRA_VOL	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318

Lab ID: 2406318-08
Sample: MCM-DR-03 (680-252405-8)
Report Matrix: Water
Sample Type: Sample
Collected: 06/19/2024
Received: 06/25/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318
B	XTRA_VOL	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318

Sample Containers

Lab ID: 2406318-09
Sample: MCM-AP1-FD-01 (680-252405-9)
Report Matrix: Water
Sample Type: Field Duplicate
Collected: 06/18/2024
Received: 06/25/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318
B	XTRA_VOL	N/A	24-0022	EDTA (in vial)	N/A	N/A	Cooler - 2406318

Shipping Containers

Cooler - 2406318

Received: June 25, 2024 10:00
Tracking No: 6881 2504 0130 via FedEx
Coolant Type: Ice
Temperature: 7.5 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: R-IR-3

Custody seals present? No
Custody seals intact? No
COC present? Yes

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

Chain of Custody Record

BAL Report 2406318

eurofins | Environment Testing

7/10/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-775638.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 1
Company: Brooks Applied Labs LLC		Accreditations Required (See note): State - Georgia		Job #: 680-252405-1
Address: 13751 Lake City Way NE, Suite 108,	Due Date Requested: 7/10/2024	Analysis Requested		Preservation Codes:
City: Seattle	TAT Requested (days):			
State, Zip: WA, 98125				
Phone:	PO #:			
Email:	WO #:			
Project Name: Plant McManus	Project #: 68027841			
Site:	SSOW#:			Other:

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)	SUB (Metals Speciation)/ Metals Speciation	Total Number of containers	Special Instructions/Note:
			Preservation Code						
MCM-INW-01 (680-252405-1)	6/19/24	14:10 Eastern		Water			X	2	
MCM-MCM-06 (680-252405-2)	6/19/24	10:15 Eastern		Water			X	2	
MCM-PT-01 (680-252405-3)	6/19/24	10:20 Eastern		Water			X	2	
MCM-PT-02 (680-252405-4)	6/18/24	15:57 Eastern		Water			X	2	
MCM-PT-03 (680-252405-5)	6/18/24	11:56 Eastern		Water			X	2	
MCM-DR-01 (680-252405-6)	6/18/24	11:33 Eastern		Water			X	2	
MCM-DR-02 (680-252405-7)	6/18/24	16:03 Eastern		Water			X	2	
MCM-DR-03 (680-252405-8)	6/19/24	14:16 Eastern		Water			X	2	
MCM-AP1-FD-01 (680-252405-9)	6/18/24	Eastern		Water			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:				
Relinquished by:	Date/Time: 6/24/24 1600	Company	Received by: GHS	Date/Time: 6/25/24 10:00	Company BAL		
Relinquished by:	Date/Time:	Company	Received by:	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:

Chain-of-Custody Form

BROOKS APPLIED LABS

Ship samples to:
13751 Lake City Way NE, Suite 108
Seattle, WA 98125

For BAL use only
Received by: _____ *Date:* _____
Work Order ID: _____ *Time:* _____
Project ID: _____

Client: Southern Company ~~Kristen Jurinko~~ NO 6/21/24 | PO Number: _____ | Mailing Address: 241 Ralph McGill Blvd NE, Atlanta, GA 30308
Contact: Kristen Jurinko | Phone: (404) 506-7116
Client Project ID: _____ | Email: knjurink@southernco.com | Email Receipt Confirmation? (Yes/No)
Samples Collected By: Jay Sievert, Natalie Piparo | BAL PM: _____

Requested TAT (business days)
☐ 20 (standard)
☐ 15*
☐ 10*
☐ 5*
☐ Other ____
*Surcharges may apply to expedited TATs

	Sample ID	Collection: Date	Collection: Time	Client Sample Info: Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO3/Other	BAL Analyses Required: Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg, III, V, MMA, DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Uknown	Filtration	Other (specify)	Other (specify)	Comments: Specify Here
1	MCM-INW-01	6/19/24	1410	WG	2	Y					X					
2	MCM-MCM-06	6/19/24	1015	WG	2	Y					X					
3	~~MCM-MCM-06~~ NP 6/18/24			WG	2	Y					X					
4	MCM-PT-01	6/19/24	1020	WG	2	Y					X					
5	MCM-PT-02	6/18/24	1557	WG	2	Y					X					
6	MCM-PT-03	6/18/24	1156	WG	2	Y					X					
7	MCM-DR-01	6/18/24	~~1603~~ 1153	WG	2	Y					X					
8	MCM-DR-02	6/18/24	1603	WG	2	Y					X					
9	MCM-DR-03	6/19/24	1416	WG	2	Y					X					
10	MCM-API-FD-01	6/18/24	—	WG	2	Y					X					
	Trip Blank															

680-252405 Chain of Custody

Relinquished By: Jay Sievert	Date: 6/21/24	Time: 1121	Relinquished By:	Date:	Time:
Received By:	Date: 6/21/24	Time: 1121	Total Number of Packages: 1.0/1.1		

Page ____ of ____ List Hazardous Contaminants: _____

samples@brooksapplied.com | brooksapplied.com

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-252405-1

Login Number: 252405

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 6/26/2024 4:52:40 PM

JOB DESCRIPTION

Plant McManus Dike Baseline Sampling 2024-06

JOB NUMBER

680-252370-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

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
6/26/2024 4:52:40 PM

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

Definitions/Glossary

Client: Southern Company
Job ID: 680-252370-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-06

Qualifiers

General Chemistry

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

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: 680-252370-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-06

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-252370-1	MCM-INW-01	Water	06/19/24 14:10	06/21/24 11:21
680-252370-2	MCM-MCM-06	Water	06/19/24 10:15	06/21/24 11:21
680-252370-3	MCM-PT-01	Water	06/19/24 10:20	06/21/24 11:21
680-252370-4	MCM-PT-02	Water	06/18/24 15:57	06/21/24 11:21
680-252370-5	MCM-PT-03	Water	06/18/24 11:56	06/21/24 11:21
680-252370-6	MCM-DR-01	Water	06/18/24 11:33	06/21/24 11:21
680-252370-7	MCM-DR-02	Water	06/18/24 16:03	06/21/24 11:21
680-252370-8	MCM-DR-03	Water	06/19/24 14:16	06/21/24 11:21
680-252370-9	MCM-AP1-FD-01	Water	06/18/24 00:00	06/21/24 11:21
680-252370-10	MCM-AP1-FB-01	Water	06/18/24 18:20	06/21/24 11:21
680-252370-11	MCM-AP1-EB-01	Water	06/18/24 18:06	06/21/24 11:21

Job ID: 680-252370-1 Eurofins Savannah

Job Narrative
680-252370-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 6/21/2024 11:21 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 1.6°C.

General Chemistry
Method SM4500_S2_F: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-844120 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.

Client Sample Results

Client: Southern Company
Job ID: 680-252370-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-06

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-252370-1
Date Collected: 06/19/24 14:10
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	13		0.81	0.81	mg/L			06/25/24 15:00	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-252370-2
Date Collected: 06/19/24 10:15
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	31		0.81	0.81	mg/L			06/25/24 15:00	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-252370-3
Date Collected: 06/19/24 10:20
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	13		0.81	0.81	mg/L			06/25/24 15:00	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-252370-4
Date Collected: 06/18/24 15:57
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	16	F1	0.81	0.81	mg/L			06/25/24 15:00	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-252370-5
Date Collected: 06/18/24 11:56
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	12		1.0	1.0	mg/L			06/25/24 15:00	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-252370-6
Date Collected: 06/18/24 11:33
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	22		0.81	0.81	mg/L			06/25/24 15:00	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-252370-7
Date Collected: 06/18/24 16:03
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	26		0.81	0.81	mg/L			06/25/24 15:00	1

Client: Southern Company
Job ID: 680-252370-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-06

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-252370-8
Date Collected: 06/19/24 14:16
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	15		1.0	1.0	mg/L			06/25/24 15:00	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-252370-9
Date Collected: 06/18/24 00:00
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	40		0.81	0.81	mg/L			06/25/24 15:00	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-252370-10
Date Collected: 06/18/24 18:20
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			06/25/24 15:00	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-252370-11
Date Collected: 06/18/24 18:06
Matrix: Water
Date Received: 06/21/24 11:21

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			06/25/24 15:00	1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-844120/1
Matrix: Water
Analysis Batch: 844120

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			06/25/24 15:00	1

Lab Sample ID: LCS 680-844120/2
Matrix: Water
Analysis Batch: 844120

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	10.0	10.7		mg/L		107	75 - 125

Lab Sample ID: LCSD 680-844120/3
Matrix: Water
Analysis Batch: 844120

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
Sulfide	10.0	10.5		mg/L		105	75 - 125	2	30

Lab Sample ID: 680-252370-4 MS
Matrix: Water
Analysis Batch: 844120

Client Sample ID: MCM-PT-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	16	F1	6.50	19.3	F1	mg/L		51	75 - 125

Lab Sample ID: 680-252370-4 MSD
Matrix: Water
Analysis Batch: 844120

Client Sample ID: MCM-PT-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	16	F1	6.50	19.3	F1	mg/L		51	75 - 125	0	30

Lab Sample ID: 680-252370-1 DU
Matrix: Water
Analysis Batch: 844120

Client Sample ID: MCM-INW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	13		13.8		mg/L		9	30

QC Association Summary

Client: Southern Company
Job ID: 680-252370-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-06

General Chemistry

Analysis Batch: 844120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-252370-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-252370-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-252370-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-252370-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-252370-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-252370-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-252370-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-252370-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-252370-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
680-252370-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-252370-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-844120/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-844120/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-844120/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-252370-4 MS	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-252370-4 MSD	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-252370-1 DU	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-252370-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-06

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-252370-1
Date Collected: 06/19/24 14:10
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-252370-2
Date Collected: 06/19/24 10:15
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-252370-3
Date Collected: 06/19/24 10:20
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-252370-4
Date Collected: 06/18/24 15:57
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-252370-5
Date Collected: 06/18/24 11:56
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	250 mL	250 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-252370-6
Date Collected: 06/18/24 11:33
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-252370-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-06

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-252370-7
Date Collected: 06/18/24 16:03
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-252370-8
Date Collected: 06/19/24 14:16
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	250 mL	250 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-252370-9
Date Collected: 06/18/24 00:00
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-252370-10
Date Collected: 06/18/24 18:20
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	844120	06/25/24 15:00	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-252370-11
Date Collected: 06/18/24 18:06
Matrix: Water
Date Received: 06/21/24 11:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	844120	06/25/24 15:00	JAS	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: 680-252370-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-06

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-24

Method Summary

Client: Southern Company
Job ID: 680-252370-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-06

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

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

Laboratory References:

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

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jay Siewert, Natalie Piparo (Resolute Env)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 2
Company: Southern Company	PWSID:			Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Dike Baseline Sampling 2024-06	Project #:			
Site:	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, Y - Trizma, Z - other (specify)

Other:

Task_Code: MCM-CCR-CA-20240617

Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total Number of containers
			Preservation Code:		X		CB	
MCM-INW-01	6/19/24	1410	G	WG	N		X	
MCM-MCM-06	6/19/24	1015 ~~1116~~ NP 6/19/24	G	WG	N		X	
MCM-PT-01	6/19/24	1020	G	WG	N		X	
MCM-PT-02	6/18/24	1557	G	WG	N		X	
MCM-PT-03	6/18/24	1156	G	WG	N		X	
MCM-DR-01	6/18/24	1133	G	WG	N		X	
MCM-DR-02	6/18/24	1603	G	WG	N		X	
MCM-DR-03	6/19/24	1416	G	WG	N		X	
MCM-AP1-FD-01	6/18/24	—	G	WG	N		X	
MCM-AP1-FB-01	6/18/24	1820	G	WQ	N		X	
MCM-AP1-EB-01	6/18/24	1806	G	WQ	N		X	

680-252370 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
Jay Siewert	6/21/24 1121			06 21 24 1121	
Relinquished by:	Date/Time:	Company	Received by:	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: 1.5/1.6

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-252370-1

Login Number: 252370

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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	

Site Name: Plant McManus

Calibrated By: Natalie Piparo

Field Instrumentation Calibration Form

Date: 7/23/24

Field Conditions: H91 L75

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	989619
Turbidity Meter	LaMotte 2020	2668-0320

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24004517	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24000085	12/2024	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24005593	12/2024	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	12/2024	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0719	Time Finish	0732		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	100.45	26.34	± 10%	NA
Specific Conductance (µS/cm)	4,490	4443.4	26.55	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	26.57	± 0.1	GWMP
pH (SU)	7.00	6.96	26.84	± 0.1	GWMP
pH (SU)	10.00	10.03	27.02	± 0.1	GWMP
ORP (mV)	228.0	219.5	27.05	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	-0.06	± 10% of standard	EPA 2023
	1.00	0.95		
	10.00	10.02		

Calibration Check					
Time Start	1552	Time Finish	1603		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4314.1	35.60	± 10% of standard	EPA 2023
pH (SU)	4.00	4.11	35.52	± 0.1	GWMP
pH (SU)	7.00	7.07	~~35.53~~ 35.25	± 0.1	GWMP
pH (SU)	10.00	10.13	35.45	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	-0.08	± 10% of standard	EPA 2023
	1.00	1.09		
	10.00	10.10		

Notes:

Site Name [illegible]

Field Instrumentation Calibration Form

Date 7/23/24

Calibrated By [illegible]

Field Conditions 90°/73° [illegible]

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	988630
Turbidity Meter	LaMotte 2020	9429-4417

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24004517	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24000085	12/2024	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24005593	12/2024	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	12/2024	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0721	Time Finish	753		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	95.96	26.27	± 10%	NA
Specific Conductance (µS/cm)	4,490	4577.1	27.01	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	27.24	± 0.1	GWMP
pH (SU)	7.00	6.98	27.38	± 0.1	GWMP
pH (SU)	10.00	9.84	27.48	± 0.1	GWMP
ORP (mV)	228.0	248.3	27.43	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.19	± 10% of standard	EPA 2023
	1.00	1.10		
	10.00	10.07		

Calibration Check					
Time Start	1556	Time Finish	1604		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4489	34.72	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	34.57	± 0.1	GWMP
pH (SU)	7.00	7.10	34.32	± 0.1	GWMP
pH (SU)	10.00	10.06	34.31	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.00		
	10.00	10.03		

Notes:

Low-Flow Test Report:

Test Date / Time: 7/23/2024 12:42:52 PM
Project: July 2024 McManus Dike Baseline Sampling
Operator Name: Kevin Stephenson

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 3.83 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 0.33 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Pre-purged 4 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
7/23/2024 12:42 PM	00:00	6.63 pH	26.60 °C	15,432 µS/cm	0.12 mg/L	2.97 NTU	-208.0 mV	4.04 ft	9.13 PSU	300.00 ml/min
7/23/2024 12:47 PM	05:00	6.63 pH	26.60 °C	15,503 µS/cm	0.10 mg/L	1.81 NTU	-257.9 mV	4.07 ft	9.18 PSU	300.00 ml/min
7/23/2024 12:52 PM	10:00	6.63 pH	26.62 °C	15,336 µS/cm	0.09 mg/L	1.68 NTU	-223.5 mV	4.11 ft	9.07 PSU	300.00 ml/min
7/23/2024 12:57 PM	15:00	6.63 pH	26.51 °C	15,390 µS/cm	0.09 mg/L	1.79 NTU	-227.6 mV	4.13 ft	9.11 PSU	300.00 ml/min
7/23/2024 1:02 PM	20:00	6.64 pH	26.39 °C	15,302 µS/cm	0.08 mg/L	1.32 NTU	-265.0 mV	4.16 ft	9.05 PSU	300.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/23/2024 10:33:53 AM
Project: July 2024 McManus Dike Baseline Sampling
Operator Name: Natalie Piparo

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.32 ft** **Total Depth: 30.32 ft** **Initial Depth to Water: 4.53 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.82 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.25 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
7/23/2024 10:33 AM	00:00	6.78 pH	26.71 °C	11,725 µS/cm	0.11 mg/L	0.24 NTU	-262.0 mV	4.43 ft	6.79 PSU	200.00 ml/min
7/23/2024 10:38 AM	05:00	6.79 pH	26.25 °C	11,665 µS/cm	0.08 mg/L	0.17 NTU	-272.8 mV	4.38 ft	6.75 PSU	200.00 ml/min
7/23/2024 10:43 AM	10:00	6.83 pH	26.27 °C	11,456 µS/cm	0.06 mg/L	0.11 NTU	-301.4 mV	4.32 ft	6.62 PSU	200.00 ml/min
7/23/2024 10:48 AM	15:00	6.85 pH	26.24 °C	11,367 µS/cm	0.05 mg/L	0.24 NTU	-281.7 mV	4.28 ft	6.56 PSU	200.00 ml/min
7/23/2024 10:53 AM	20:00	6.87 pH	26.25 °C	11,273 µS/cm	0.05 mg/L	0.21 NTU	-313.6 mV	4.28 ft	6.50 PSU	200.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/23/2024 8:50:09 AM
Project: July 2024 McManus Dike Baseline Sampling
Operator Name: Kevin Stephenson

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.03 ft** **Total Depth: 30.03 ft** **Initial Depth to Water: 5.52 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.53 ft** **Estimated Total Volume Pumped: 4160 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: -0.33 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Pre-purged 1 liter.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
7/23/2024 8:50 AM	00:00	7.06 pH	25.00 °C	9,549.2 µS/cm	0.38 mg/L	1.31 NTU	-226.1 mV	5.47 ft	5.44 PSU	260.00 ml/min
7/23/2024 8:54 AM	04:00	7.10 pH	24.66 °C	9,463.7 µS/cm	0.34 mg/L	0.97 NTU	-243.6 mV	5.33 ft	5.38 PSU	260.00 ml/min
7/23/2024 8:58 AM	08:00	7.12 pH	24.48 °C	9,354.7 µS/cm	0.32 mg/L	1.50 NTU	-246.9 mV	5.29 ft	5.32 PSU	260.00 ml/min
7/23/2024 9:02 AM	12:00	7.15 pH	24.46 °C	9,225.5 µS/cm	0.30 mg/L	1.38 NTU	-250.0 mV	5.24 ft	5.24 PSU	260.00 ml/min
7/23/2024 9:06 AM	16:00	7.20 pH	24.42 °C	9,035.7 µS/cm	0.28 mg/L	0.41 NTU	-252.6 mV	5.19 ft	5.12 PSU	260.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide
FD-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/23/2024 1:46:10 PM
Project: July 2024 McManus Dike Baseline Sampling
Operator Name: Kevin Stephenson

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 4.49 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.4 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Pre-purged 1 liter.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
7/23/2024 1:46 PM	00:00	7.32 pH	39.83 °C	8,810.9 µS/cm	0.44 mg/L	3.39 NTU	-312.9 mV	4.67 ft	4.97 PSU	240.00 ml/min
7/23/2024 1:51 PM	05:00	7.43 pH	29.29 °C	6,949.3 µS/cm	0.09 mg/L	2.62 NTU	-307.2 mV	4.72 ft	3.87 PSU	240.00 ml/min
7/23/2024 1:56 PM	10:00	7.47 pH	28.58 °C	6,953.8 µS/cm	0.08 mg/L	2.65 NTU	-327.6 mV	4.75 ft	3.87 PSU	240.00 ml/min
7/23/2024 2:01 PM	15:00	7.48 pH	28.26 °C	6,986.3 µS/cm	0.09 mg/L	2.47 NTU	-307.6 mV	4.79 ft	3.89 PSU	240.00 ml/min
7/23/2024 2:06 PM	20:00	7.49 pH	28.42 °C	7,098.6 µS/cm	0.07 mg/L	1.54 NTU	-328.1 mV	4.84 ft	3.96 PSU	240.00 ml/min
7/23/2024 2:11 PM	25:00	7.50 pH	28.73 °C	7,104.2 µS/cm	0.07 mg/L	1.58 NTU	-328.7 mV	4.89 ft	3.96 PSU	240.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/23/2024 9:07:26 AM
Project: July 2024 McManus Dike Baseline Sampling
Operator Name: Natalie Piparo

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 5.74 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 4200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: -0.51 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
7/23/2024 9:07 AM	00:00	6.67 pH	27.85 °C	11,577 µS/cm	0.19 mg/L	0.38 NTU	-206.2 mV	5.52 ft	6.69 PSU	210.00 ml/min
7/23/2024 9:12 AM	05:00	6.70 pH	25.61 °C	11,925 µS/cm	0.10 mg/L	0.31 NTU	-287.1 mV	5.46 ft	6.91 PSU	210.00 ml/min
7/23/2024 9:17 AM	10:00	6.71 pH	25.63 °C	11,852 µS/cm	0.07 mg/L	0.88 NTU	-290.5 mV	5.37 ft	6.86 PSU	210.00 ml/min
7/23/2024 9:22 AM	15:00	6.72 pH	25.13 °C	11,736 µS/cm	0.07 mg/L	0.24 NTU	-238.8 mV	5.31 ft	6.79 PSU	210.00 ml/min
7/23/2024 9:27 AM	20:00	6.74 pH	25.05 °C	11,630 µS/cm	0.06 mg/L	0.17 NTU	-291.3 mV	5.23 ft	6.72 PSU	210.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/23/2024 12:51:50 PM
Project: July 2024 McManus Dike Baseline Sampling
Operator Name: Natalie Piparo

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 3.99 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.31 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
7/23/2024 12:51 PM	00:00	6.44 pH	28.86 °C	10,861 µS/cm	0.17 mg/L	0.71 NTU	-168.9 mV	4.15 ft	6.25 PSU	200.00 ml/min
7/23/2024 12:56 PM	05:00	6.44 pH	28.43 °C	10,904 µS/cm	0.12 mg/L	0.83 NTU	-196.6 mV	4.18 ft	6.27 PSU	200.00 ml/min
7/23/2024 1:01 PM	10:00	6.43 pH	28.48 °C	10,901 µS/cm	0.08 mg/L	1.10 NTU	-241.9 mV	4.24 ft	6.27 PSU	200.00 ml/min
7/23/2024 1:06 PM	15:00	6.44 pH	28.32 °C	10,796 µS/cm	0.05 mg/L	0.97 NTU	-218.5 mV	4.27 ft	6.21 PSU	200.00 ml/min
7/23/2024 1:11 PM	20:00	6.45 pH	28.27 °C	10,754 µS/cm	0.03 mg/L	0.86 NTU	-232.0 mV	4.30 ft	6.18 PSU	200.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/23/2024 10:12:05 AM
Project: July 2024 McManus Dike Baseline Sampling
Operator Name: Kevin Stephenson

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.36 ft** **Total Depth: 25.36 ft** **Initial Depth to Water: 4.52 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.36 ft** **Estimated Total Volume Pumped: 5200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: -0.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Pre-purged 2 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
7/23/2024 10:12 AM	00:00	6.43 pH	25.62 °C	12,567 µS/cm	0.17 mg/L	2.44 NTU	-210.3 mV	4.41 ft	7.31 PSU	260.00 ml/min
7/23/2024 10:17 AM	05:00	6.44 pH	25.36 °C	12,526 µS/cm	0.12 mg/L	2.72 NTU	-256.7 mV	4.39 ft	7.29 PSU	260.00 ml/min
7/23/2024 10:22 AM	10:00	6.45 pH	25.32 °C	12,418 µS/cm	0.11 mg/L	2.57 NTU	-262.0 mV	4.33 ft	7.22 PSU	260.00 ml/min
7/23/2024 10:27 AM	15:00	6.48 pH	25.51 °C	12,257 µS/cm	0.09 mg/L	2.78 NTU	-263.3 mV	4.27 ft	7.12 PSU	260.00 ml/min
7/23/2024 10:32 AM	20:00	6.50 pH	25.40 °C	12,086 µS/cm	0.09 mg/L	2.55 NTU	-264.1 mV	4.24 ft	7.01 PSU	260.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/23/2024 2:06:18 PM
Project: July 2024 McManus Dike Baseline Sampling
Operator Name: Natalie Piparo

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 6.21 ft**	**Pump Type: Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 4400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.87 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
7/23/2024 2:06 PM	00:00	7.04 pH	28.44 °C	8,804.7 µS/cm	0.07 mg/L	0.20 NTU	-319.4 mV	7.19 ft	4.98 PSU	220.00 ml/min
7/23/2024 2:11 PM	05:00	7.04 pH	27.76 °C	8,739.7 µS/cm	0.03 mg/L	0.24 NTU	-324.9 mV	7.35 ft	4.94 PSU	220.00 ml/min
7/23/2024 2:16 PM	10:00	7.06 pH	27.19 °C	8,687.5 µS/cm	0.03 mg/L	0.14 NTU	-348.6 mV	7.37 ft	4.91 PSU	220.00 ml/min
7/23/2024 2:21 PM	15:00	7.05 pH	27.37 °C	8,631.1 µS/cm	0.01 mg/L	0.10 NTU	-325.9 mV	7.43 ft	4.88 PSU	220.00 ml/min
7/23/2024 2:26 PM	20:00	7.08 pH	27.35 °C	8,561.4 µS/cm	0.01 mg/L	0.07 NTU	-353.3 mV	7.44 ft	4.84 PSU	220.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide

Created using VuSitu from In-Situ, Inc.

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843.556.8171
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July 29, 2024

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

Re: Plant McManus CCR Groundwater Compliance Reanalysis:
Work Order: 677099

Dear Kristen Jurinko:

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

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
677099001	MCM-INW-01	Ground Water	06/19/24 14:10	06/21/24 09:22
677099002	MCM-MCM-06	Ground Water	06/19/24 10:15	06/21/24 09:22
677099003	MCM-PT-01	Ground Water	06/19/24 10:20	06/21/24 09:22
677099004	MCM-PT-02	Ground Water	06/18/24 15:57	06/21/24 09:22
677099005	MCM-PT-03	Ground Water	06/18/24 11:56	06/21/24 09:22
677099006	MCM-DR-01	Ground Water	06/18/24 11:33	06/21/24 09:22
677099007	MCM-DR-02	Ground Water	06/18/24 16:03	06/21/24 09:22
677099008	MCM-DR-03	Ground Water	06/19/24 14:16	06/21/24 09:22
677099009	MCM-AP1-FD-01	Ground Water	06/18/24 12:00	06/21/24 09:22
677099010	MCM-AP1-FB-01	Ground Water	06/18/24 18:20	06/21/24 09:22
677099011	MCM-AP1-EB-01	Ground Water	06/18/24 18:06	06/21/24 09:22
677099012	MCM-INW-01	Ground Water	06/19/24 14:10	06/21/24 09:22
677099013	MCM-MCM-06	Ground Water	06/19/24 10:15	06/21/24 09:22
677099014	MCM-PT-01	Ground Water	06/19/24 10:20	06/21/24 09:22
677099015	MCM-PT-02	Ground Water	06/18/24 15:57	06/21/24 09:22
677099016	MCM-PT-03	Ground Water	06/18/24 11:56	06/21/24 09:22

677099017	MCM-DR-01	Ground Water	06/18/24 11:33	06/21/24 09:22
677099018	MCM-DR-02	Ground Water	06/18/24 16:03	06/21/24 09:22
677099019	MCM-DR-03	Ground Water	06/19/24 14:16	06/21/24 09:22
677099020	MCM-AP1-FD-01	Ground Water	06/18/24 12:00	06/21/24 09:22

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

Prep Methods and Prep Dates

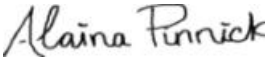
Method	Run Date ID
SW846 3005A	23-JUL-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	25-JUL-2024

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

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 677099 GEL Work Order: 677099

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

J Value is estimated

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

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

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

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

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	677099001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 14:10		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		0.811	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1557	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	677099002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 10:15		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron	J	0.0891	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1559	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	677099003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 10:20		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		0.347	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1613	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	677099004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 15:57		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		1.98	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1614	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	677099005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 11:56		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		1.82	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1616	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	677099006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 11:33		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		0.681	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1618	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	677099007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 16:03		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		1.25	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1620	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	677099008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 14:16		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		0.145	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1622	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	677099009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 12:00		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		0.937	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1624	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	677099010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	18-JUN-24 18:20		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1626	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	677099011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	18-JUN-24 18:06		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1628	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	677099012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 14:10		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Iron "As Received"												
Iron		0.633	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1633	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	677099013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 10:15		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Iron "As Received"												
Iron	J	0.0819	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1635	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	677099014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 10:20		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Iron "As Received"												
Iron		0.209	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1637	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	677099015	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 15:57		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Iron "As Received"												
Iron		2.07	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1639	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	677099016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 11:56		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Iron "As Received"												
Iron		0.916	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1641	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	677099017	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 11:33		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Iron "As Received"												
Iron		0.377	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1643	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	677099018	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 16:03		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Iron "As Received"												
Iron		0.314	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1645	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	677099019	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-JUN-24 14:16		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Iron "As Received"												
Iron	J	0.0851	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1647	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: July 29, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceReanalysis:

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	677099020	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-JUN-24 12:00		
Receive Date:	21-JUN-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Iron "As Received"												
Iron		0.321	0.0330	0.100	mg/L	1.00	1	PRB	07/25/24	1648	2644961	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/23/24	1445	2644960

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: July 29, 2024

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

Contact: **Kristen Jurinko**

Workorder: **677099**

Parmname			NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS														
Batch 2644961														
QC1205798216	LCS													
Iron			2.00				1.99	mg/L		99.6	(80%-120%)	PRB	07/25/24	15:55
QC1205798215	MB													
Iron						U	ND	mg/L					07/25/24	15:54
QC1205798217	677099002	MS												
Iron			2.00	J	0.0891		2.06	mg/L		98.3	(75%-125%)		07/25/24	16:01
QC1205798218	677099002	MSD												
Iron			2.00	J	0.0891		2.20	mg/L	6.91	106	(0%-20%)		07/25/24	16:03
QC1205798219	677099002	SDILT												
Iron				J	89.1	U	ND	ug/L	N/A		(0%-20%)		07/25/24	16:07

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit

QC Summary

Workorder: **677099**

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

E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies

N1 See case narrative

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

J See case narrative for an explanation

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

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

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 677099

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2644961

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2644960

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

GEL Sample ID#	Client Sample Identification
677099001	MCM-INW-01
677099002	MCM-MCM-06
677099003	MCM-PT-01
677099004	MCM-PT-02
677099005	MCM-PT-03
677099006	MCM-DR-01
677099007	MCM-DR-02
677099008	MCM-DR-03
677099009	MCM-AP1-FD-01
677099010	MCM-AP1-FB-01
677099011	MCM-AP1-EB-01
677099012	MCM-INW-01
677099013	MCM-MCM-06
677099014	MCM-PT-01
677099015	MCM-PT-02
677099016	MCM-PT-03
677099017	MCM-DR-01
677099018	MCM-DR-02
677099019	MCM-DR-03
677099020	MCM-AP1-FD-01
1205798215	Method Blank (MB)**ICP-MS**
1205798216	Laboratory Control Sample (LCS)
1205798219	677099002(MCM-MCM-06L) Serial Dilution (SD)
1205798217	677099002(MCM-MCM-06S) Matrix Spike (MS)
1205798218	677099002(MCM-MCM-06SD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement

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

Certification Statement

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

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

672636

Chain of Custody and Analytical Request

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

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

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus Baseline Sampling June 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (Resolute Environmental) Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Totals Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)	Comments
MCM-INW-01	6/19/24	1410	G	Y*	WG			3	X	X	X	X	X		Note: extra sample is required for sample specific QC
MCM-MCM-06	6/19/24	1015	G	Y*	WG			3	X	X	X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl
MCM-PT-01	6/19/24	1020	G	Y*	WG			3	X	X	X	X	X		
MCM-PT-02	6/18/24	1557	G	Y*	WG			3	X	X	X	X	X		
MCM-PT-03	6/18/24	1156	G	Y*	WG			3	X	X	X	X	X		
MCM-DR-01	6/18/24	1133	G	Y*	WG			3	X	X	X	X	X		
MCM-DR-02	6/18/24	1603	G	Y*	WG			3	X	X	X	X	X		
MCM-DR-03	6/19/24	1416	G	Y*	WG			3	X	X	X	X	X		
MCM-AP1-FD-01	6/18/24	—	FD	Y*	WG			3	X	X	X	X	X		
MCM-AP1-FB-01	6/18/24	1820	FB	N	WQ			2	X		X	X	X		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Revised Environmental			1		
2	6/21/24	9:22	2 Thyasia Tutu	6/21/24	922
3			3		

TAT Requested: Normal: __X__ Rush:_____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

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

Additional Remarks: **Task Code: MCM-CCR-CA-20240617**

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

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

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

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

Dissolved metals are the only Field Filterd Samples

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

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

Client Name: Kristen Jurinko — Phone #
Project/Site Name: Plant McManus Baseline Sampling June 2024 — Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Jay Siewert, Natalie Piparo (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Totals Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)	Comments
MCM-AP1-EB-01	6/18/24	1806	EB	N	WQ			5	X		X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl
								5							
								5							
								5							
								5							
								5							
								5							
								5							
								5							
								5							
								5							

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental			1		
2	6/21/24	9:22	2 Thy Castle Tutten	6/21/24	0922
3			3		

TAT Requested: Normal: __X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

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

Additional Remarks: **Task Code: MCM-CCR-CA-20240617**

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

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

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

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

Dissolved metals are the only Field Filterd Samples

672636

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: STACY BOONE	Date Received: JUNE 21, 2024
	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other
Carrier and Tracking Number	—

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

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1.6
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR3-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials WJ Date 6/24/24 Page 1 of 1

Page: 1.0 of 2
Project #: GPCC00105
GEL Quote #: GELP22-0819
COC Number (1): _____
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

677099

Chain of Custody and Analytical Request

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

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

Client Name: Kristen Jurinko Phone #: N/A
Project/Site Name: Plant McManus CCR Groundwater Compliance Fax #
Address: 241 Ralph McGill Blvd NE, Atlanta, GA 30308
Collected By: Send Results To: KNJURINK@SOUTHERNCO.COM

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

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals	TDS/Anions/Alkalinity	Dissolved Metals	<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
MCM-INW-01								3	X	X	X		
MCM-MCM-06								3	X	X	X		
MCM-PT-01								3	X	X	X		
MCM-PT-02								3	X	X	X		
MCM-PT-03								3	X	X	X		
MCM-DR-01								3	X	X	X		
MCM-DR-02								3	X	X	X		
MCM-DR-03								3	X	X	X		
MCM-AP1-FD-01								3	X	X	X		
MCM-AP1-FB-01								2	X	X			

Chain of Custody Signatures

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

TAT Requested: Normal: ____ Rush: ____ Specify: _____

Fax Results: [ ] Yes [ ] No

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

Additional Remarks: 236764

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

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

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

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

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

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

7.) KNOWN OR POSSIBLE HAZARDS

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

Page: 2.0 of 2
Project #: GPCC00105
GEL Quote #: GELP22-0819
COC Number (1): _____
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

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

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

Client Name: Kristen Jurinko — Phone #: N/A
Project/Site Name: Plant McManus CCR Groundwater Compliance — Fax #
Address: 241 Ralph McGill Blvd NE, Atlanta, GA 30308
Collected By: — Send Results To: KNJURINK@SOUTHERNCO.COM

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

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals	TDS/Anions/Alkalinity	Dissolved Metals	<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
MCM-AP1-EB-01								2	X	X			
Extra 1								3	X	X	X		
Extra 2								3	X	X	X		

Chain of Custody Signatures

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

TAT Requested: Normal: _____ Rush: _____ Specify: _____

Fax Results: [ ] Yes [ ] No

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

Additional Remarks: 236764

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

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

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

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

677339
677099
677344

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: WJ	Date Received: 7/24/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 2774 2358 9706

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

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	X			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	X			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 3
4	Daily check performed and passed on IR temperature gun?	X			Temperature Device Serial #: IR8-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	X			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	X			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			X	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	X			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	X			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?			X	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			X	
13	COC form is properly signed in relinquished/received sections?			X	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AT Date 7/25/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 29 July 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-08
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

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

August 14, 2024

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

Re: Plant McManus CCR Groundwater Compliance
Work Order: 677344

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 24, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the previous revision noted as SDG number 677344 Rev01 in the left-hand footer of the data report. Revision two updates the reporting metals to include magnesium, potassium, sodium, and calcium, replacing the August 7, 2024 revised report.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
677344001	MCM-INW-01	Ground Water	07/23/24 13:08	07/24/24 09:35
677344002	MCM-MCM-06	Ground Water	07/23/24 14:20	07/24/24 09:35
677344003	MCM-PT-01	Ground Water	07/23/24 09:25	07/24/24 09:35
677344004	MCM-PT-02	Ground Water	07/23/24 13:10	07/24/24 09:35
677344005	MCM-PT-03	Ground Water	07/23/24 10:38	07/24/24 09:35
677344006	MCM-DR-01	Ground Water	07/23/24 10:47	07/24/24 09:35
677344007	MCM-DR-02	Ground Water	07/23/24 09:10	07/24/24 09:35
677344008	MCM-DR-03	Ground Water	07/23/24 14:16	07/24/24 09:35
677344009	MCM-AP1-FD-01	Ground Water	07/23/24 12:00	07/24/24 09:35

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

Prep Methods and Prep Dates

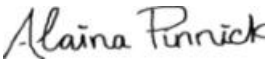
Method	Run Date ID
SW846 3005A	13-AUG-2024
SW846 3005A	25-JUL-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	13-AUG-2024
SW846 3005A/6020B	26-JUL-2024

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

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 677344 GEL Work Order: 677344

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

J Value is estimated

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

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

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

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

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

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: August 14, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	677344001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 13:08		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Calcium		239	8.00	20.0	mg/L	1.00	100	PRB	08/13/24	2125	2654804	1
Magnesium		312	1.00	3.00	mg/L	1.00	100					
Potassium		85.4	8.00	30.0	mg/L	1.00	100					
Sodium		2550	8.00	25.0	mg/L	1.00	100					
Arsenic		0.0107	0.00200	0.0100	mg/L	1.00	1	PRB	07/26/24	1514	2645896	2
Iron		2.04	0.0330	0.100	mg/L	1.00	1					
Manganese		0.181	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/13/24	0750	2654803
SW846 3005A	ICP-MS 3005A PREP	AB5	07/25/24	0830	2645895

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: August 14, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	677344002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 14:20		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Arsenic		0.0900	0.00200	0.0100	mg/L	1.00	1	PRB	07/26/24	1529	2645896	1
Iron		0.146	0.0330	0.100	mg/L	1.00	1					
Manganese		0.147	0.00100	0.00500	mg/L	1.00	1					
Calcium		114	4.00	10.0	mg/L	1.00	50	PRB	08/13/24	2128	2654804	2
Magnesium		207	0.500	1.50	mg/L	1.00	50					
Potassium		70.0	4.00	15.0	mg/L	1.00	50					
Sodium		1430	4.00	12.5	mg/L	1.00	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/13/24	0750	2654803
SW846 3005A	ICP-MS 3005A PREP	AB5	07/25/24	0830	2645895

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: August 14, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	677344003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 09:25		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Calcium		181	8.00	20.0	mg/L	1.00	100	PRB	08/13/24	2150	2654804	1
Magnesium		260	1.00	3.00	mg/L	1.00	100					
Potassium		78.9	8.00	30.0	mg/L	1.00	100					
Sodium		1900	8.00	25.0	mg/L	1.00	100					
Arsenic		0.0131	0.00200	0.0100	mg/L	1.00	1	PRB	07/26/24	1531	2645896	2
Iron		0.312	0.0330	0.100	mg/L	1.00	1					
Manganese		0.285	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	07/25/24	0830	2645895
SW846 3005A	ICP-MS 3005A PREP	AB5	08/13/24	0750	2654803

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 14, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	677344004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 13:10		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Calcium		176	8.00	20.0	mg/L	1.00	100	PRB	08/13/24	2154	2654804	1
Magnesium		257	1.00	3.00	mg/L	1.00	100					
Potassium		71.3	8.00	30.0	mg/L	1.00	100					
Sodium		1860	8.00	25.0	mg/L	1.00	100					
Arsenic	J	0.00703	0.00200	0.0100	mg/L	1.00	1	PRB	07/26/24	1533	2645896	2
Iron		3.62	0.0330	0.100	mg/L	1.00	1					
Manganese		0.405	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	07/25/24	0830	2645895
SW846 3005A	ICP-MS 3005A PREP	AB5	08/13/24	0750	2654803

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 14, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	677344005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 10:38		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Arsenic		0.0350	0.00200	0.0100	mg/L	1.00	1	PRB	07/26/24	1535	2645896	1
Iron		0.833	0.0330	0.100	mg/L	1.00	1					
Manganese		0.124	0.00100	0.00500	mg/L	1.00	1					
Calcium		181	8.00	20.0	mg/L	1.00	100	PRB	08/13/24	2157	2654804	2
Magnesium		266	1.00	3.00	mg/L	1.00	100					
Potassium		77.0	8.00	30.0	mg/L	1.00	100					
Sodium		2020	8.00	25.0	mg/L	1.00	100					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/13/24	0750	2654803
SW846 3005A	ICP-MS 3005A PREP	AB5	07/25/24	0830	2645895

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: August 14, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	677344006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 10:47		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Arsenic		0.0249	0.00200	0.0100	mg/L	1.00	1	PRB	07/26/24	1537	2645896	1
Iron		0.410	0.0330	0.100	mg/L	1.00	1					
Manganese		0.192	0.00100	0.00500	mg/L	1.00	1					
Calcium		160	8.00	20.0	mg/L	1.00	100	PRB	08/13/24	2201	2654804	2
Magnesium		277	1.00	3.00	mg/L	1.00	100					
Potassium		78.7	8.00	30.0	mg/L	1.00	100					
Sodium		2060	8.00	25.0	mg/L	1.00	100					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	07/25/24	0830	2645895
SW846 3005A	ICP-MS 3005A PREP	AB5	08/13/24	0750	2654803

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: August 14, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	677344007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 09:10		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Calcium		105	4.00	10.0	mg/L	1.00	50	PRB	08/13/24	2205	2654804	1
Magnesium		174	0.500	1.50	mg/L	1.00	50					
Potassium		64.4	4.00	15.0	mg/L	1.00	50					
Sodium		1550	4.00	12.5	mg/L	1.00	50					
Arsenic		0.0525	0.00200	0.0100	mg/L	1.00	1	PRB	07/26/24	1539	2645896	2
Iron		0.163	0.0330	0.100	mg/L	1.00	1					
Manganese		0.0978	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/13/24	0750	2654803
SW846 3005A	ICP-MS 3005A PREP	AB5	07/25/24	0830	2645895

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: August 14, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	677344008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 14:16		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Calcium		63.9	4.00	10.0	mg/L	1.00	50	PRB	08/13/24	2208	2654804	1
Magnesium		108	0.500	1.50	mg/L	1.00	50					
Potassium		51.9	4.00	15.0	mg/L	1.00	50					
Sodium		1270	4.00	12.5	mg/L	1.00	50					
Arsenic		0.0357	0.00200	0.0100	mg/L	1.00	1	PRB	07/26/24	1541	2645896	2
Iron		0.106	0.0330	0.100	mg/L	1.00	1					
Manganese		0.113	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/13/24	0750	2654803
SW846 3005A	ICP-MS 3005A PREP	AB5	07/25/24	0830	2645895

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: August 14, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	677344009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 12:00		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved "As Received"												
Arsenic		0.0517	0.00200	0.0100	mg/L	1.00	1	PRB	07/26/24	1543	2645896	1
Iron		0.161	0.0330	0.100	mg/L	1.00	1					
Manganese		0.0994	0.00100	0.00500	mg/L	1.00	1					
Calcium		99.6	4.00	10.0	mg/L	1.00	50	PRB	08/13/24	2212	2654804	2
Magnesium		167	0.500	1.50	mg/L	1.00	50					
Potassium		62.1	4.00	15.0	mg/L	1.00	50					
Sodium		1480	4.00	12.5	mg/L	1.00	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/13/24	0750	2654803
SW846 3005A	ICP-MS 3005A PREP	AB5	07/25/24	0830	2645895

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: August 14, 2024

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

Contact: **Kristen Jurinko**

Workorder: **677344**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2645896											
QC1205799935 LCS											
Arsenic	0.0500			0.0500	mg/L		99.9	(80%-120%)	PRB	07/26/24	15:12
Iron	2.00			1.90	mg/L		95.2	(80%-120%)			
Manganese	0.0500			0.0481	mg/L		96.1	(80%-120%)			
QC1205799934 MB											
Arsenic			U	ND	mg/L					07/26/24	15:10
Iron			U	ND	mg/L						
Manganese			U	ND	mg/L						
QC1205799936 677344001 MS											
Arsenic	0.0500	0.0107		0.0581	mg/L		94.8	(75%-125%)		07/26/24	15:16
Iron	2.00	2.04		3.79	mg/L		87.5	(75%-125%)			
Manganese	0.0500	0.181		0.219	mg/L		76.3	(75%-125%)			
QC1205799937 677344001 MSD											
Arsenic	0.0500	0.0107		0.0595	mg/L	2.51	97.7	(0%-20%)		07/26/24	15:18
Iron	2.00	2.04		3.80	mg/L	0.436	88.3	(0%-20%)			
Manganese	0.0500	0.181		0.224	mg/L	2.3	86.4	(0%-20%)			

QC Summary

Workorder: 677344

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2645896										
QC1205799938 677344001 SDILT										
Arsenic		10.7	J	2.91	ug/L	36.1		(0%-20%)	PRB	07/26/24 15:22
Iron		2040		414	ug/L	1.75		(0%-20%)		
Manganese		181		36.4	ug/L	.876		(0%-20%)		
Batch 2654804										
QC1205818307 LCS										
Calcium	2.00			2.04	mg/L		102	(80%-120%)	PRB	08/13/24 21:21
Magnesium	2.00			2.11	mg/L		106	(80%-120%)		
Potassium	2.00			1.94	mg/L		97.2	(80%-120%)		
Sodium	2.00			2.13	mg/L		107	(80%-120%)		
QC1205818306 MB										
Calcium			U	ND	mg/L					08/13/24 21:17
Magnesium			U	ND	mg/L					
Potassium			U	ND	mg/L					
Sodium			U	ND	mg/L					
QC1205818308 677344002 MS										
Calcium	2.00	114		113	mg/L		N/A	(75%-125%)		08/13/24 21:32
Magnesium	2.00	207		200	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **677344**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2654804										
Potassium	2.00	70.0		68.7	mg/L		N/A	(75%-125%)	PRB	08/13/24 21:32
Sodium	2.00	1430		1370	mg/L		N/A	(75%-125%)		
QC1205818309 677344002 MSD										
Calcium	2.00	114		114	mg/L	1.18	N/A	(0%-20%)		08/13/24 21:35
Magnesium	2.00	207		203	mg/L	1.38	N/A	(0%-20%)		
Potassium	2.00	70.0		69.6	mg/L	1.31	N/A	(0%-20%)		
Sodium	2.00	1430		1400	mg/L	1.63	N/A	(0%-20%)		
QC1205818310 677344002 SDILT										
Calcium		2280		475	ug/L	3.85		(0%-20%)		08/13/24 21:39
Magnesium		4140		843	ug/L	1.71		(0%-20%)		
Potassium		1400	J	280	ug/L	.0969		(0%-20%)		
Sodium		28500		5820	ug/L	1.97		(0%-20%)		

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported

QC Summary

Workorder: **677344**

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

h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
J	See case narrative for an explanation

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

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

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 677344

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2645896

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2645895

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

GEL Sample ID#	Client Sample Identification
677344001	MCM-INW-01
677344002	MCM-MCM-06
677344003	MCM-PT-01
677344004	MCM-PT-02
677344005	MCM-PT-03
677344006	MCM-DR-01
677344007	MCM-DR-02
677344008	MCM-DR-03
677344009	MCM-AP1-FD-01
1205799934	Method Blank (MB)**ICP-MS**
1205799935	Laboratory Control Sample (LCS)
1205799938	677344001(MCM-INW-01L) Serial Dilution (SD)
1205799936	677344001(MCM-INW-01S) Matrix Spike (MS)
1205799937	677344001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

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

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2654804

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2654803

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

GEL Sample ID#	Client Sample Identification
677344001	MCM-INW-01
677344002	MCM-MCM-06
677344003	MCM-PT-01
677344004	MCM-PT-02
677344005	MCM-PT-03
677344006	MCM-DR-01
677344007	MCM-DR-02
677344008	MCM-DR-03
677344009	MCM-AP1-FD-01
1205818306	Method Blank (MB)**ICP-MS**
1205818307	Laboratory Control Sample (LCS)
1205818310	677344002(MCM-MCM-06L) Serial Dilution (SD)
1205818308	677344002(MCM-MCM-06S) Matrix Spike (MS)
1205818309	677344002(MCM-MCM-06SD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

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

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	677344								
	001	002	003	004	005	006	007	008	009
Calcium	100X	50X	100X	100X	100X	100X	50X	50X	50X
Magnesium	100X	50X	100X	100X	100X	100X	50X	50X	50X
Potassium	100X	50X	100X	100X	100X	100X	50X	50X	50X
Sodium	100X	50X	100X	100X	100X	100X	50X	50X	50X

Certification Statement

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

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

677099 / 677344 ~~677099~~ 677339

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

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

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus Baseline Sampling July 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

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

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Totals Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)
MCM-INW-01	7/23/24	1308	G	Y*	WG			3	X	X	X	X	X	
MCM-MCM-06	7/23/24	1420	G	Y*	WG			3	X	X	X	X	X	
MCM-PT-01	7/23/24	0925	G	Y*	WG			3	X	X	X	X	X	
MCM-PT-02	7/23/24	1310	G	Y*	WG			3	X	X	X	X	X	
MCM-PT-03	7/23/24	1038	G	Y*	WG			3	X	X	X	X	X	
MCM-DR-01	7/23/24	1047	G	Y*	WG			3	X	X	X	X	X	
MCM-DR-02	7/23/24	0910	G	Y*	WG			3	X	X	X	X	X	
MCM-DR-03	7/23/24	1416	G	Y*	WG			3	X	X	X	X	X	
MCM-AP1-FD-01	7/23/24	—	FD	Y*	WG			3	X	X	X	X	X	
MCM-AP1-FB-01	7/23/24	1508	FB	N	WQ			2	X		X	X	X	

Comments
Note: extra sample is required for sample specific QC

Metal List - As, Ca, Fe, Mg, Mn, K, Na

** - 3 Day TAT - Diss. Ana. Residue

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	7/23/24 @ 1642	1	7/24/24	935
2			2		
3			3		

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

TAT Requested: Normal: __X__ Rush: ~~X~~ Specify: 3 DAY (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

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

Additional Remarks: **Task Code: MCM-CCR-CA-20240722**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** 3 °C

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

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

Dissolved metals are the only Field Filterd Samples

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

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

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

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus Baseline Sampling June 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, Natalie Piparo (Resolute Environmental) Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Totals Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)
MCM-AP1-EB-01	7/23/24	1511	EB	N	WQ			2	X		X	X	X	

Comments
Note: extra sample is required for sample specific QC

Metal List - As, Ca, Fe, Mg, Mn, K, Na

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] Resolute Environmental	7/23/24	1644	1 Will Jones	7/27/24	935
2			2		
3			3		

TAT Requested: Normal: __X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

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

Additional Remarks: **Task Code: MCM-CCR-CA-20240722**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** 3 °C

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

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

1.) Chain of Custody Number = Client Determined

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

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

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RCRA Metals
As = Arsenic **Hg**= Mercury
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Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

Dissolved metals are the only Field Filterd Samples

677339
677099
677344

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: WJ	**Date Received:** 7/24/24
Carrier and Tracking Number	Circle Applicable: ~~FedEx Express~~ FedEx Ground UPS Field Services Courier Other 2774 2358 9706

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

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: ~~Wet Ice~~ Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 3°
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR8-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?				Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?				
13	COC form is properly signed in relinquished/received sections?				Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AT Date 7/25/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 14 August 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-08
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 7/26/2024 11:51:59 AM

JOB DESCRIPTION

Plant McManus Dike Baseline Sampling 2024-07

JOB NUMBER

680-253694-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

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
7/26/2024 11:51:59 AM

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

Definitions/Glossary

Client: Southern Company
Job ID: 680-253694-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-07

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: 680-253694-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-07

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-253694-1	MCM-INW-01	Ground Water	07/23/24 13:08	07/24/24 09:45
680-253694-2	MCM-MCM-06	Ground Water	07/23/24 14:20	07/24/24 09:45
680-253694-3	MCM-PT-01	Ground Water	07/23/24 09:25	07/24/24 09:45
680-253694-4	MCM-PT-02	Ground Water	07/23/24 13:10	07/24/24 09:45
680-253694-5	MCM-PT-03	Ground Water	07/23/24 10:38	07/24/24 09:45
680-253694-6	MCM-DR-01	Ground Water	07/23/24 10:47	07/24/24 09:45
680-253694-7	MCM-DR-02	Ground Water	07/23/24 09:10	07/24/24 09:45
680-253694-8	MCM-DR-03	Ground Water	07/23/24 14:16	07/24/24 09:45
680-253694-9	MCM-AP1-FD-01	Ground Water	07/23/24 00:00	07/24/24 09:45
680-253694-10	MCM-AP1-FB-01	Water	07/23/24 15:08	07/24/24 09:45
680-253694-11	MCM-AP1-EB-01	Water	07/23/24 15:11	07/24/24 09:45

Job ID: 680-253694-1 Eurofins Savannah

Job Narrative
680-253694-1

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 7/24/2024 9:45 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 3.4°C.

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: 680-253694-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-07

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-253694-1
Date Collected: 07/23/24 13:08
Matrix: Ground Water
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	14		0.81	0.81	mg/L			07/25/24 15:33	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-253694-2
Date Collected: 07/23/24 14:20
Matrix: Ground Water
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	42		0.81	0.81	mg/L			07/25/24 15:33	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-253694-3
Date Collected: 07/23/24 09:25
Matrix: Ground Water
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	22		0.81	0.81	mg/L			07/25/24 15:33	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-253694-4
Date Collected: 07/23/24 13:10
Matrix: Ground Water
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	13		0.81	0.81	mg/L			07/25/24 15:33	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-253694-5
Date Collected: 07/23/24 10:38
Matrix: Ground Water
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	18		0.81	0.81	mg/L			07/25/24 15:33	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-253694-6
Date Collected: 07/23/24 10:47
Matrix: Ground Water
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	26		0.81	0.81	mg/L			07/25/24 15:33	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-253694-7
Date Collected: 07/23/24 09:10
Matrix: Ground Water
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	33		0.81	0.81	mg/L			07/25/24 15:33	1

Client: Southern Company
Job ID: 680-253694-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-07

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-253694-8
Date Collected: 07/23/24 14:16
Matrix: Ground Water
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**31**		0.81	0.81	mg/L			07/25/24 15:33	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-253694-9
Date Collected: 07/23/24 00:00
Matrix: Ground Water
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**34**		0.81	0.81	mg/L			07/25/24 15:33	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-253694-10
Date Collected: 07/23/24 15:08
Matrix: Water
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			07/25/24 15:33	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-253694-11
Date Collected: 07/23/24 15:11
Matrix: Water
Date Received: 07/24/24 09:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			07/25/24 15:33	1

Client: Southern Company
Job ID: 680-253694-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-07

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-848439/1
Matrix: Water
Analysis Batch: 848439

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			07/25/24 15:33	1

Lab Sample ID: LCS 680-848439/2
Matrix: Water
Analysis Batch: 848439

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.76		mg/L		98	75 - 125		

Lab Sample ID: LCSD 680-848439/3
Matrix: Water
Analysis Batch: 848439

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
Sulfide			10.0	9.22		mg/L		92	75 - 125	6	30

Lab Sample ID: 680-253694-4 MS
Matrix: Ground Water
Analysis Batch: 848439

Client Sample ID: MCM-PT-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	13		6.50	20.0		mg/L		103	75 - 125		

Lab Sample ID: 680-253694-4 MSD
Matrix: Ground Water
Analysis Batch: 848439

Client Sample ID: MCM-PT-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	13		6.50	20.0		mg/L		103	75 - 125	0	30

Lab Sample ID: 680-253694-1 DU
Matrix: Ground Water
Analysis Batch: 848439

Client Sample ID: MCM-INW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	14			15.0		mg/L				5	30

QC Association Summary

Client: Southern Company
Job ID: 680-253694-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-07

General Chemistry

Analysis Batch: 848439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-253694-1	MCM-INW-01	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-2	MCM-MCM-06	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-3	MCM-PT-01	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-4	MCM-PT-02	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-5	MCM-PT-03	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-6	MCM-DR-01	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-7	MCM-DR-02	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-8	MCM-DR-03	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-9	MCM-AP1-FD-01	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-253694-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-848439/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-848439/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-848439/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-253694-4 MS	MCM-PT-02	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-4 MSD	MCM-PT-02	Total/NA	Ground Water	4500 S2 F-2011	
680-253694-1 DU	MCM-INW-01	Total/NA	Ground Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-253694-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-07

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-253694-1
Date Collected: 07/23/24 13:08
Matrix: Ground Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-253694-2
Date Collected: 07/23/24 14:20
Matrix: Ground Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-253694-3
Date Collected: 07/23/24 09:25
Matrix: Ground Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-253694-4
Date Collected: 07/23/24 13:10
Matrix: Ground Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-253694-5
Date Collected: 07/23/24 10:38
Matrix: Ground Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-253694-6
Date Collected: 07/23/24 10:47
Matrix: Ground Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-253694-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-07

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-253694-7
Date Collected: 07/23/24 09:10
Matrix: Ground Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-253694-8
Date Collected: 07/23/24 14:16
Matrix: Ground Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-253694-9
Date Collected: 07/23/24 00:00
Matrix: Ground Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-253694-10
Date Collected: 07/23/24 15:08
Matrix: Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-253694-11
Date Collected: 07/23/24 15:11
Matrix: Water
Date Received: 07/24/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	848439	07/25/24 15:33	JAS	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: 680-253694-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-07

Laboratory: Eurofins Savannah

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

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	88-00692	02-01-25
Florida	NELAP	E87052	06-30-25
Guam	State	24-05R	04-17-25
Illinois	NELAP	200022	11-30-24
Iowa	State	353	07-01-25
Louisiana (All)	NELAP	30690	06-30-25
Louisiana (DW)	State	LA009	12-31-24
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-24
Puerto Rico	State	GA00006	01-01-25
South Carolina	State	98001	06-30-24 *
Tennessee	State	TN02961	06-30-25
Texas	NELAP	T1047004185	11-30-24
USDA	US Federal Programs	P330-18-00313	04-04-27
Virginia	NELAP	460161	06-14-25

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

Method Summary

Client: Southern Company
Job ID: 680-253694-1
Project/Site: Plant McManus Dike Baseline Sampling 2024-07

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

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

Laboratory References:

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

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Kevin Stephenson, Natalie Piparo (Resolute Env)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:	Analysis Requested		Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date 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, Y - Trizma, Z - other (specify); Other:
City: Atlanta	TAT Requested (days): 3-Day ~~Standard~~ Rush			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Dike Baseline Sampling 2024-07	Project #:			
Site:	SSOW#:			

680-253694 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total N.	Task_Code: MCM-CCR-CA-20240722 / Special Instructions/Note:
			Preservation Code:				CB		
MCM-INW-01	7/23/24	1308	G	WG	N		X	2	
MCM-MCM-06	7/23/24	1420	G	WG	N		X	2	
MCM-PT-01	7/23/24	0925	G	WG	N		X	2	
MCM-PT-02	7/23/24	1310	G	WG	N		X	2	
MCM-PT-03	7/23/24	1038	G	WG	N		X	2	
MCM-DR-01	7/23/24	1047	G	WG	N		X	2	
MCM-DR-02	7/23/24	0910	G	WG	N		X	2	
MCM-DR-03	7/23/24	1416	G	WG	N		X	2	
MCM-AP1-FD-01	7/23/24	—	G	WG	N		X	2	
MCM-AP1-FB-01	7/23/24	1504	G	WQ	N		X	2	
MCM-AP1-EB-01	7/23/24	1511	G	WQ	N		X	2	

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
		7/23/24 1643	Resolute			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
					7/24/24 0945	Eurofins

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.4/3.4

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-253694-1

Login Number: 253694

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	

GEL Laboratories LLC
a member of The GEL Group INC

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

August 07, 2024

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

Re: Plant McManus CCR Groundwater Compliance
Work Order: 677339

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 24, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
677339001	MCM-INW-01	Ground Water	07/23/24 13:08	07/24/24 09:35
677339002	MCM-MCM-06	Ground Water	07/23/24 14:20	07/24/24 09:35
677339003	MCM-PT-01	Ground Water	07/23/24 09:25	07/24/24 09:35
677339004	MCM-PT-02	Ground Water	07/23/24 13:10	07/24/24 09:35
677339005	MCM-PT-03	Ground Water	07/23/24 10:38	07/24/24 09:35
677339006	MCM-DR-01	Ground Water	07/23/24 10:47	07/24/24 09:35
677339007	MCM-DR-02	Ground Water	07/23/24 09:10	07/24/24 09:35
677339008	MCM-DR-03	Ground Water	07/23/24 14:16	07/24/24 09:35
677339009	MCM-AP1-FD-01	Ground Water	07/23/24 12:00	07/24/24 09:35
677339010	MCM-AP1-FB-01	Water	07/23/24 15:08	07/24/24 09:35
677339011	MCM-AP1-EB-01	Water	07/23/24 15:11	07/24/24 09:35

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

Prep Methods and Prep Dates

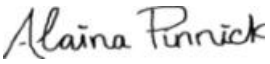
Method	Run Date ID
SW846 3005A	25-JUL-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	26-JUL-2024
EPA 300.0	27-JUL-2024
EPA 300.0	29-JUL-2024
SM 2320B	26-JUL-2024
SM 2540C	30-JUL-2024
SW846 3005A/6020B	29-JUL-2024

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

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 677339 GEL Work Order: 677339

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

J Value is estimated

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

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

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

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

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

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

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	677339001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 13:08		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		657	66.5	200	mg/L		500	CWW	07/26/24	1854	2647198	1
Chloride		4930	67.0	200	mg/L		1000	CWW	07/29/24	1210	2647198	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	J	0.00789	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0020	2645894	3
Iron		2.67	0.0330	0.100	mg/L	1.00	1					
Manganese		0.184	0.00100	0.00500	mg/L	1.00	1					
Calcium		250	8.00	20.0	mg/L	1.00	100	PRB	07/29/24	1028	2645894	4
Magnesium		330	1.00	3.00	mg/L	1.00	100					
Potassium		90.4	8.00	30.0	mg/L	1.00	100					
Sodium		2620	8.00	25.0	mg/L	1.00	100					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9320	23.8	100	mg/L			KLP1	07/30/24	1405	2648065	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		203	0.725	2.00	mg/L			JW2	07/26/24	1225	2647006	6
Bicarbonate alkalinity (CaCO3)		203	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

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

Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	677339001	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	677339002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 14:20		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2800	33.5	100	mg/L		500	CWW	07/26/24	1926	2647198	1
Sulfate		293	66.5	200	mg/L		500					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic		0.0762	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0045	2645894	2
Iron	J	0.0385	0.0330	0.100	mg/L	1.00	1					
Manganese		0.139	0.00100	0.00500	mg/L	1.00	1					
Calcium		116	4.00	10.0	mg/L	1.00	50	PRB	07/29/24	1105	2645894	3
Magnesium		207	0.500	1.50	mg/L	1.00	50					
Potassium		69.7	4.00	15.0	mg/L	1.00	50					
Sodium		1380	4.00	12.5	mg/L	1.00	50					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4960	23.8	100	mg/L			KLP1	07/30/24	1405	2648065	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		284	0.725	2.00	mg/L			JW2	07/26/24	1228	2647006	5
Bicarbonate alkalinity (CaCO3)		284	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	677339002	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	677339003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 09:25		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4020	33.5	100	mg/L		500	CWW	07/26/24	1958	2647198	1
Sulfate		452	66.5	200	mg/L		500					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		187	4.00	10.0	mg/L	1.00	50	PRB	07/29/24	1107	2645894	2
Magnesium		267	0.500	1.50	mg/L	1.00	50					
Potassium		85.1	4.00	15.0	mg/L	1.00	50					
Sodium		1930	4.00	12.5	mg/L	1.00	50					
Arsenic		0.0111	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0049	2645894	3
Iron		0.213	0.0330	0.100	mg/L	1.00	1					
Manganese		0.278	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6730	23.8	100	mg/L			KLP1	07/30/24	1405	2648065	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		235	0.725	2.00	mg/L			JW2	07/26/24	1229	2647006	5
Bicarbonate alkalinity (CaCO3)		235	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	677339003	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	677339004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 13:10		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3740	33.5	100	mg/L		500	CWW	07/26/24	2030	2647198	1
Sulfate		460	66.5	200	mg/L		500					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		176	4.00	10.0	mg/L	1.00	50	PRB	07/29/24	1109	2645894	2
Magnesium		262	0.500	1.50	mg/L	1.00	50					
Potassium		73.5	4.00	15.0	mg/L	1.00	50					
Sodium		1820	4.00	12.5	mg/L	1.00	50					
Arsenic	J	0.00458	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0052	2645894	3
Iron		3.58	0.0330	0.100	mg/L	1.00	1					
Manganese		0.394	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6490	23.8	100	mg/L			KLP1	07/30/24	1405	2648065	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		183	0.725	2.00	mg/L			JW2	07/26/24	1231	2647006	5
Bicarbonate alkalinity (CaCO3)		183	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	677339004	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	677339005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 10:38		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3970	33.5	100	mg/L		500	CWW	07/26/24	2101	2647198	1
Sulfate		493	66.5	200	mg/L		500					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		186	4.00	10.0	mg/L	1.00	50	PRB	07/29/24	1115	2645894	2
Magnesium		270	0.500	1.50	mg/L	1.00	50					
Potassium		78.7	4.00	15.0	mg/L	1.00	50					
Sodium		1990	4.00	12.5	mg/L	1.00	50					
Arsenic		0.0309	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0056	2645894	3
Iron		0.927	0.0330	0.100	mg/L	1.00	1					
Manganese		0.121	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6880	23.8	100	mg/L			KLP1	07/30/24	1405	2648065	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		192	0.725	2.00	mg/L			JW2	07/26/24	1233	2647006	5
Bicarbonate alkalinity (CaCO3)		192	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	677339005	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	677339006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 10:47		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3920	33.5	100	mg/L		500	CWW	07/26/24	2133	2647198	1
Sulfate		467	66.5	200	mg/L		500					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		157	4.00	10.0	mg/L	1.00	50	PRB	07/29/24	1117	2645894	2
Magnesium		270	0.500	1.50	mg/L	1.00	50					
Potassium		78.1	4.00	15.0	mg/L	1.00	50					
Sodium		1930	4.00	12.5	mg/L	1.00	50					
Arsenic		0.0258	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0100	2645894	3
Iron		0.439	0.0330	0.100	mg/L	1.00	1					
Manganese		0.185	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7200	23.8	100	mg/L			KLP1	07/30/24	1405	2648065	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		240	0.725	2.00	mg/L			JW2	07/26/24	1235	2647006	5
Bicarbonate alkalinity (CaCO3)		240	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	677339006	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	677339007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 09:10		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2840	33.5	100	mg/L		500	CWW	07/26/24	2205	2647198	1
Sulfate		285	6.65	20.0	mg/L		50	CWW	07/29/24	1242	2647198	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic		0.0726	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0103	2645894	3
Iron		3.99	0.0330	0.100	mg/L	1.00	1					
Manganese		0.110	0.00100	0.00500	mg/L	1.00	1					
Calcium		102	4.00	10.0	mg/L	1.00	50	PRB	07/29/24	1119	2645894	4
Magnesium		169	0.500	1.50	mg/L	1.00	50					
Potassium		62.7	4.00	15.0	mg/L	1.00	50					
Sodium		1430	4.00	12.5	mg/L	1.00	50					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4990	23.8	100	mg/L			KLP1	07/30/24	1405	2648065	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		294	0.725	2.00	mg/L			JW2	07/26/24	1237	2647006	6
Bicarbonate alkalinity (CaCO3)		294	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	677339007	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	677339008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 14:16		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2090	33.5	100	mg/L		500	CWW	07/26/24	2341	2647198	1
Sulfate		242	66.5	200	mg/L		500					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Calcium		64.0	4.00	10.0	mg/L	1.00	50	PRB	07/29/24	1121	2645894	2
Magnesium		108	0.500	1.50	mg/L	1.00	50					
Potassium		53.3	4.00	15.0	mg/L	1.00	50					
Sodium		1220	4.00	12.5	mg/L	1.00	50					
Arsenic		0.0376	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0107	2645894	3
Iron		0.252	0.0330	0.100	mg/L	1.00	1					
Manganese		0.112	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		3860	23.8	100	mg/L			KLP1	07/30/24	1405	2648065	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		334	0.725	2.00	mg/L			JW2	07/26/24	1239	2647006	5
Bicarbonate alkalinity (CaCO3)		321	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)		13.0	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	677339008	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	677339009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	23-JUL-24 12:00		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2810	33.5	100	mg/L		500	CWW	07/27/24	0012	2647198	1
Sulfate		337	66.5	200	mg/L		500					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic		0.0709	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0111	2645894	2
Iron		3.83	0.0330	0.100	mg/L	1.00	1					
Manganese		0.107	0.00100	0.00500	mg/L	1.00	1					
Calcium		107	4.00	10.0	mg/L	1.00	50	PRB	07/29/24	1123	2645894	3
Magnesium		175	0.500	1.50	mg/L	1.00	50					
Potassium		64.4	4.00	15.0	mg/L	1.00	50					
Sodium		1480	4.00	12.5	mg/L	1.00	50					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4880	23.8	100	mg/L			KLP1	07/30/24	1405	2648065	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		298	0.725	2.00	mg/L			JW2	07/26/24	1242	2647006	5
Bicarbonate alkalinity (CaCO3)		298	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

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

Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	677339009	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: August 7, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-AP1-FB-01
Sample ID: 677339010
Matrix: WQ
Collect Date: 23-JUL-24 15:08
Receive Date: 24-JUL-24
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	07/27/24	0044	2647198	1
Sulfate	U	ND	0.133	0.400	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0114	2645894	2
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Magnesium	J	0.0122	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Sodium	J	0.162	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	07/30/24	1405	2648065	3
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	07/26/24	1243	2647006	4
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SM 2540C	
4	SM 2320B	

Notes:

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

Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	677339010	Client ID:	GPCC001

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	677339011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	23-JUL-24 15:11		
Receive Date:	24-JUL-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	07/27/24	0116	2647198	1
Sulfate	U	ND	0.133	0.400	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1	PRB	07/29/24	0118	2645894	2
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	07/30/24	1405	2648065	3
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	07/26/24	1244	2647006	4
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	07/25/24	1450	2645892

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SM 2540C	
4	SM 2320B	

Notes:

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

Certificate of Analysis

Report Date: August 7, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	677339011	Client ID:	GPCC001

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

Column headers are defined as follows:

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

QC Summary

Report Date: August 7, 2024

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

Contact: **Kristen Jurinko**

Workorder: **677339**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2647198										
QC1205802351 677536006 DUP										
Chloride	U	ND	U	ND	mg/L	N/A			CWW	07/27/24 07:38
Sulfate	U	ND	U	ND	mg/L	N/A				
QC1205802348 LCS										
Chloride	5.00			4.90	mg/L		98	(90%-110%)		07/26/24 17:50
Sulfate	10.0			9.96	mg/L		99.6	(90%-110%)		
QC1205802347 MB										
Chloride			U	ND	mg/L					07/26/24 17:19
Sulfate			U	ND	mg/L					
QC1205802352 677536006 PS										
Chloride	5.00	U ND		4.86	mg/L		97.3	(90%-110%)		07/27/24 08:10
Sulfate	10.0	U ND		9.68	mg/L		96.8	(90%-110%)		
Metals Analysis - ICPMS										
Batch 2645894										
QC1205799930 LCS										
Arsenic	0.0500			0.0488	mg/L		97.5	(80%-120%)	PRB	07/29/24 00:16
Calcium	2.00			2.06	mg/L		103	(80%-120%)		
Iron	2.00			1.96	mg/L		97.9	(80%-120%)		

QC Summary

Workorder: **677339**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2645894										
Magnesium	2.00			1.99	mg/L		99.6	(80%-120%)	PRB	07/29/24 00:16
Manganese	0.0500			0.0482	mg/L		96.3	(80%-120%)		
Potassium	2.00			1.94	mg/L		97	(80%-120%)		
Sodium	2.00			2.02	mg/L		101	(80%-120%)		
QC1205799929 MB										
Arsenic			U	ND	mg/L					07/29/24 00:12
Calcium			U	ND	mg/L					
Iron			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Potassium			U	ND	mg/L					
Sodium			U	ND	mg/L					
QC1205799931 677339001 MS										
Arsenic	0.0500	J	0.00789	0.0556	mg/L		95.4	(75%-125%)		07/29/24 00:23
Calcium	2.00		250	238	mg/L		N/A	(75%-125%)		07/29/24 10:30
Iron	2.00		2.67	4.42	mg/L		87.4	(75%-125%)		07/29/24 00:23

QC Summary

Workorder: **677339**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2645894											
Magnesium	2.00		330		318	mg/L		N/A	(75%-125%)	PRB	07/29/24 10:30
Manganese	0.0500		0.184		0.222	mg/L		76.3	(75%-125%)		07/29/24 00:23
Potassium	2.00		90.4		87.6	mg/L		N/A	(75%-125%)		07/29/24 10:30
Sodium	2.00		2620		2490	mg/L		N/A	(75%-125%)		
QC1205799932 677339001 MSD											
Arsenic	0.0500	J	0.00789		0.0537	mg/L	3.49	91.6	(0%-20%)		07/29/24 00:27
Calcium	2.00		250		250	mg/L	4.93	N/A	(0%-20%)		07/29/24 10:32
Iron	2.00		2.67		4.36	mg/L	1.32	84.5	(0%-20%)		07/29/24 00:27
Magnesium	2.00		330		329	mg/L	3.35	N/A	(0%-20%)		07/29/24 10:32
Manganese	0.0500		0.184		0.220	mg/L	0.945	72.1*	(0%-20%)		07/29/24 00:27
Potassium	2.00		90.4		91.9	mg/L	4.77	N/A	(0%-20%)		07/29/24 10:32
Sodium	2.00		2620		2590	mg/L	3.92	N/A	(0%-20%)		
QC1205802960 677339001 PS											
Manganese	50.0		184		201	ug/L		34.2*	(75%-125%)		07/29/24 00:31
QC1205799933 677339001 SDILT											
Arsenic		J	7.89	U	ND	ug/L	N/A		(0%-20%)		07/29/24 00:34

QC Summary

Workorder: **677339**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2645894										
Calcium		2500		488	ug/L	2.31		(0%-20%)	PRB	07/29/24 11:03
Iron		2670		506	ug/L	5.22		(0%-20%)		07/29/24 00:34
Magnesium		3300		627	ug/L	5.1		(0%-20%)		07/29/24 11:03
Manganese		184		33.6	ug/L	8.59		(0%-20%)		07/29/24 00:34
Potassium		904	J	171	ug/L	5.12		(0%-20%)		07/29/24 11:03
Sodium		26200		4960	ug/L	5.28		(0%-20%)		
Solids Analysis										
Batch 2648065										
QC1205804347 677430002 DUP										
Total Dissolved Solids		136		138	mg/L	1.46		(0%-5%)	KLP1	07/30/24 14:05
QC1205804345 LCS										
Total Dissolved Solids	300			292	mg/L		97.3	(95%-105%)		07/30/24 14:05
QC1205804344 MB										
Total Dissolved Solids			U	ND	mg/L					07/30/24 14:05
Titration and Ion Analysis										
Batch 2647006										
QC1205801998 677339001 DUP										
Alkalinity, Total as CaCO3		203		200	mg/L	1.49		(0%-20%)	JW2	07/26/24 12:26
Bicarbonate alkalinity (CaCO3)		203		200	mg/L	1.49		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				

QC Summary

Workorder: **677339**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2647006										
QC1205802000 677339008 DUP										
Alkalinity, Total as CaCO3		334		336	mg/L	0.597		(0%-20%)	JW2	07/26/24 12:40
Bicarbonate alkalinity (CaCO3)		321		322	mg/L	0.311		(0%-20%)		
Carbonate alkalinity (CaCO3)		13.0		14.0	mg/L	7.41		(0%-20%)		
QC1205801997 LCS										
Alkalinity, Total as CaCO3	50.0			51.5	mg/L		103	(90%-110%)		07/26/24 12:21
QC1205802002 LCS										
Alkalinity, Total as CaCO3	15.0			14.5	mg/L		96.7	(90%-110%)		07/26/24 12:24
QC1205801999 677339001 MS										
Alkalinity, Total as CaCO3	50.0	203		253	mg/L		N/A	(80%-120%)		07/26/24 12:27
QC1205802001 677339008 MS										
Alkalinity, Total as CaCO3	50.0	334		385	mg/L		N/A	(80%-120%)		07/26/24 12:41

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

QC Summary

Workorder: **677339**

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

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

ND Analyte concentration is not detected above the detection limit

E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range

Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies

N1 See case narrative

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

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

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

J See case narrative for an explanation

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

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

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2645894

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2645892

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

GEL Sample ID#	Client Sample Identification
677339001	MCM-INW-01
677339002	MCM-MCM-06
677339003	MCM-PT-01
677339004	MCM-PT-02
677339005	MCM-PT-03
677339006	MCM-DR-01
677339007	MCM-DR-02
677339008	MCM-DR-03
677339009	MCM-AP1-FD-01
677339010	MCM-AP1-FB-01
677339011	MCM-AP1-EB-01
1205799929	Method Blank (MB)**ICP-MS**
1205799930	Laboratory Control Sample (LCS)
1205799933	677339001(MCM-INW-01L) Serial Dilution (SD)
1205799931	677339001(MCM-INW-01S) Matrix Spike (MS)
1205799932	677339001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)
1205802960	677339001(MCM-INW-01PS) Post Spike (PS)

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

Data Summary:

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

Calibration Information

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

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is

less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike also did not meet the required control limits; thus, confirming matrix interferences and/or sample non-homogeneity.

Sample	Analyte	Value
1205799932 (MCM-INW-01MSD)	Manganese	72.1* (75%-125%)

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

Sample	Analyte	Value
1205802960 (MCM-INW-01PS)	Manganese	34.2* (75%-125%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 677339001 (MCM-INW-01), 677339002 (MCM-MCM-06), 677339003 (MCM-PT-01), 677339004 (MCM-PT-02), 677339005 (MCM-PT-03), 677339006 (MCM-DR-01), 677339007 (MCM-DR-02), 677339008 (MCM-DR-03) and 677339009 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	677339								
	001	002	003	004	005	006	007	008	009
Calcium	100X	50X	50X	50X	50X	50X	50X	50X	50X
Magnesium	100X	50X	50X	50X	50X	50X	50X	50X	50X
Potassium	100X	50X	50X	50X	50X	50X	50X	50X	50X
Sodium	100X	50X	50X	50X	50X	50X	50X	50X	50X

General Chemistry

Product: Ion Chromatography
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2647198

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

GEL Sample ID#	Client Sample Identification
677339001	MCM-INW-01
677339002	MCM-MCM-06
677339003	MCM-PT-01
677339004	MCM-PT-02
677339005	MCM-PT-03
677339006	MCM-DR-01
677339007	MCM-DR-02

677339008	MCM-DR-03
677339009	MCM-AP1-FD-01
677339010	MCM-AP1-FB-01
677339011	MCM-AP1-EB-01
1205802347	Method Blank (MB)
1205802348	Laboratory Control Sample (LCS)
1205802351	677536006(NonSDG) Sample Duplicate (DUP)
1205802352	677536006(NonSDG) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions
The following sample 677339001 (MCM-INW-01) was diluted because target analyte concentrations exceeded the calibration range. Samples 677339001 (MCM-INW-01), 677339002 (MCM-MCM-06), 677339003 (MCM-PT-01), 677339004 (MCM-PT-02), 677339005 (MCM-PT-03), 677339006 (MCM-DR-01), 677339007 (MCM-DR-02), 677339008 (MCM-DR-03) and 677339009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	677339								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	500X	500X	500X	500X	500X	500X	500X	500X
Sulfate	500X	500X	500X	500X	500X	500X	50X	500X	500X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2648065

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

GEL Sample ID#	Client Sample Identification
677339001	MCM-INW-01
677339002	MCM-MCM-06
677339003	MCM-PT-01
677339004	MCM-PT-02
677339005	MCM-PT-03
677339006	MCM-DR-01
677339007	MCM-DR-02
677339008	MCM-DR-03
677339009	MCM-AP1-FD-01
677339010	MCM-AP1-FB-01
677339011	MCM-AP1-EB-01
1205804344	Method Blank (MB)
1205804345	Laboratory Control Sample (LCS)

1205804347	677430002(NonSDG) Sample Duplicate (DUP)

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

Data Summary:

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

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to matrix interference. 677339001 (MCM-INW-01), 677339002 (MCM-MCM-06), 677339003 (MCM-PT-01), 677339004 (MCM-PT-02), 677339005 (MCM-PT-03), 677339006 (MCM-DR-01), 677339007 (MCM-DR-02), 677339008 (MCM-DR-03) and 677339009 (MCM-AP1-FD-01).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2647006

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

GEL Sample ID#	Client Sample Identification
677339001	MCM-INW-01
677339002	MCM-MCM-06
677339003	MCM-PT-01
677339004	MCM-PT-02
677339005	MCM-PT-03
677339006	MCM-DR-01
677339007	MCM-DR-02
677339008	MCM-DR-03
677339009	MCM-AP1-FD-01
677339010	MCM-AP1-FB-01
677339011	MCM-AP1-EB-01
1205801997	Laboratory Control Sample (LCS)
1205801998	677339001(MCM-INW-01) Sample Duplicate (DUP)
1205801999	677339001(MCM-INW-01) Matrix Spike (MS)
1205802000	677339008(MCM-DR-03) Sample Duplicate (DUP)
1205802001	677339008(MCM-DR-03) Matrix Spike (MS)
1205802002	Laboratory Control Sample (LCS)

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

Data Summary:

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

Certification Statement

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

Project # GPCC00105
GEL Quote #: GELP22-0819
PO Number [1]:
PO Number:

Chain of Custody and Analytical Request

677099 / 677344 ~~677099~~ 677339

GEL Work Order Number:

GEL Project Manager: Erin Trent

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

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus Baseline Sampling July 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

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

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Totals Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)
MCM-INW-01	7/23/24	1308	G	Y*	WG			3	X	X	X	X	X	
MCM-MCM-06	7/23/24	1420	G	Y*	WG			3	X	X	X	X	X	
MCM-PT-01	7/23/24	0925	G	Y*	WG			3	X	X	X	X	X	
MCM-PT-02	7/23/24	1310	G	Y*	WG			3	X	X	X	X	X	
MCM-PT-03	7/23/24	1038	G	Y*	WG			3	X	X	X	X	X	
MCM-DR-01	7/23/24	1047	G	Y*	WG			3	X	X	X	X	X	
MCM-DR-02	7/23/24	0910	G	Y*	WG			3	X	X	X	X	X	
MCM-DR-03	7/23/24	1416	G	Y*	WG			3	X	X	X	X	X	
MCM-AP1-FD-01	7/23/24	—	FD	Y*	WG			3	X	X	X	X	X	
MCM-AP1-FB-01	7/23/24	1508	FB	N	WQ			2	X		X	X	X	

Comments
Note: extra sample is required for sample specific QC

Metal List - As, Ca, Fe, Mg, Mn, K, Na

** - 3 Day TAT - Dups, Aqs, Equip

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	7/23/24 @ 1642	1	7/24/24	935
2			2		
3			3		

TAT Requested: Normal: __X__ Rush: ~~X~~ Specify: ~~3~~ DAY (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

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

Additional Remarks: **Task Code: MCM-CCR-CA-20240722**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No **Cooler Temp:** 3 °C

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

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

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

Dissolved metals are the only Field Filterd Samples

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

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

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

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus Baseline Sampling June 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, Natalie Piparo (Resolute Environmental) Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

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

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Totals Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)
MCM-AP1-EB-01	7/23/24	1511	EB	N	WQ			2	X		X	X	X	

Comments
Note: extra sample is required for sample specific QC

Metal List - As, Ca, Fe, Mg, Mn, K, Na

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] Resolute Environmental	7/23/24	1644	Will Jones	7/24/24	935
2						
3						

TAT Requested: **Normal:** __X__ **Rush:**_____ **Specify:** _____ **(Subject to Surcharge**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level I [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240722**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 3 °C

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

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

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

****Dissolved metals are the only Field Filterd Samples****

Page 38 of 40 SDG: 677339

677339
677099
677344

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: WJ	**Date Received:** 7/24/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 2774 2358 9706

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

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 3°
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR8-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?				Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?				
13	COC form is properly signed in relinquished/received sections?				Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials AT Date 7/25/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 07 August 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122024-08
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Appendix D

Injection Field Forms

INJECTION SOLUTION LOG

Date: 8/13 - 8/19/2024

Test Area: MCM-06 Pilot Injection Study

Weather: Variable - See Field Notes

Injection Well/: INW-01

Site: Georgia Power McManus

Personnel: R. Shealy, J. Ware, G. Wilford

INJECTION LINE READINGS

Batch	Date	Time	Tracer Added (L)	FeCl2 Added (kg)	Batch Size (gallons)	Geochemical Parameters					Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	
0	8/13/2024	12:50	0	0	115	31.2	8.30	515	2.86	-55.5	MCA - Water (08132024)
1	8/13/2024	13:30	1	13	500	29.0	5.10	5,300	2.16	124.0	MCM-Batch 1 (08132024)
2	8/14/2024	8:55	0.5	6.5	250	26.6	5.58	6,891	NR	7.4	
3	8/14/2024	11:52	0.5	6.5	250	31.0	5.69	3,167	4.08	-25.6	
4	8/14/2024	13:55	0.5	6.5	250	28.9	5.63	5,407	2.19	-21.4	
5	8/15/2024	9:45	0.5	6.5	250	30.3	4.95	5,301	2.91	91.9	MCM-Batch 5 (08152024)
6	8/15/2024	12:20	0.5	6.5	250	30.7	5.68	6,037	14.72	-25.0	
7	8/15/2024	14:05	0.5	6.5	250	30.7	5.59	6,585	4.3	15.4	
8	8/16/2024	9:22	0.5	6.5	250	27.8	5.32	7,309	4.06	-1.7	
9	8/16/2024	12:15	0.5	6.5	250	30.4	5.64	6,001	6.35	-20.9	
10	8/16/2024	14:00	0.5	6.5	250	32.4	5.59	5,473	2.57	-12.2	MCM-Batch 10 (08162024)
11	8/17/2024	9:55	0.5	6.5	250	27.2	6.00	2,946	3.14	-30.2	
12	8/17/2024	11:55	0.5	6.5	250	29.2	5.67	6,671	4.19	-24.9	
13	8/17/2024	15:28	0.5	6.5	250	35.2	5.30	7,365	2.3	24.0	
14	8/18/2024	11:30	0.5	6.5	250	29	5.72	6,883	4.62	-24.1	
15	8/18/2024	14:45	0.5	6.5	250	32.1	5.67	6,507	5.62	-22.9	MCM-Batch 15 (08182024)

INJECTION SOLUTION LOG

Date: 8/13 - 8/19/2024

Test Area: MCM-06 Pilot Injection Study

Weather: Variable - See Field Notes

Injection Well/: INW-01

Site: Georgia Power McManus

Personnel: R. Shealy, J. Ware, G. Wilford

INJECTION LINE READINGS

Batch	Date	Time	Tracer Added (L)	FeCl2 Added (kg)	Batch Size (gallons)	Geochemical Parameters					Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	
16	8/19/2024	11:00	0.5	6.5	250	30.8	5.65	6,810	3.14	-26.1	
17	8/19/2024	13:17	0.5	6.5	250	31.6	5.72	6,372	4.88	-12.6	

INJECTION FIELD TEST LOG

Date:: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Injection Well/: INW-01

Personnel: R. Shealy, J. Ware, G. Wilford

INJECTION LINE READINGS

Time	Date	Totalizer Volume (gal)	Cumulative Volume (gal)	Tank Volume (gal)	Injection Flowrate (gal/min)	Well Head Presure (PSI)	Notes
		246					Clean water
11:20	8/13/2024	276	31		~4.7	0.1	Off 11:27 to tighten leaks
11:32	8/13/2024	315.29	70.29			0.1	Off at 11:36 to seal hole in casing
11:40	8/13/2024				~0.8 - 1	0	Off 11:42
11:48	8/13/2024	334.34	89.34		5.1	0	Off 11:49 to glue cap to casing
12:01	8/13/2024	360.57	115.57		4.9	0	Off 12:05
							Reset totalizer
13:15	8/13/2024	--	--	500	5.5	0.2	Start Batch 1 (500 gal)
14:15	8/13/2024	284.42	284.42		4.2	0	
15:00	8/13/2024	472	472		0.8 - 0	0	Batch 1 complete, unable to remove sludge volume
16:25	8/13/2024	50 gal water flush				0	
8:45	8/14/2024	483	483	250	4.3	0.1	Start Batch 2 (250 gal)
9:42	8/14/2024	692	692		3.4	0	
9:44	8/14/2024	693	693		0	0	Batch 2 complete (210 gal) *totalizer funky*
11:17	8/14/2024	0	700	250	3.0	0.1	Batch 3 began (250 gal)
12:17	8/14/2024	167	867	< 100	2.7	0	
12:43	8/14/2024	238	938		0	0	Batch 3 complete (238 gal)
13:25	8/14/2024	238	938	250	2.6	0	Batch 4 started (250 gal)
14:25	8/14/2024	391	1091	<100	2.4	0	

INJECTION FIELD TEST LOG

Date:: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Injection Well/: INW-01

Personnel: R. Shealy, J. Ware, G. Wilford

INJECTION LINE READINGS

Time	Date	Totalizer Volume (gal)	Cumulative Volume (gal)	Tank Volume (gal)	Injection Flowrate (gal/min)	Well Head Presure (PSI)	Notes
15:04	8/14/2024	481	1181	0	0	0	Batch 4 complete (243 gal)
15:11	8/14/2024	50 gal water flush					
8:57	8/15/2024	481	1181	250	2.5	0.2	Batch 5 started (250 gal)
9:57	8/15/2024	640	1340	125	2.9	0.3	
10:30	8/15/2024	744	1444	0	0	0	Batch 5 Complete (263 gal)
11:06	8/15/2024	744	1444	250	2.9	0.2	Batch 6 started (250 gal); Fe Hach Results - 2,300 mg/L
12:06	8/15/2024	881	1581	~125	2.3	0.2	
12:50	8/15/2024	988	1688	0	0	0	Batch 6 complete (244 gal)
13:55	8/15/2024	988	1688	250	2.5	0.3	Batch 7 Started (250 gal)
14:55	8/15/2024	1123	1823	~125	2.2	0.2	
15:48	8/15/2024	1227	1927	0	0	0	Batch 7 complete (239 gal)
15:55	8/15/2024	50 gal water flush				0	Flush complete at 16:24
8:35	8/16/2024	1227	1927	250	2.2	0.7	Batch 8 started (250 gal)
9:35	8/16/2024	1357	2057	~125	2.07	0.7	
10:35	8/16/2024	1481	2181	0	0.9	0.4 - 0.0	Batch 8 ended (254 gal)
11:05	8/16/2024	1481	2181	250	2.3	0.6	Batch 9 started (250 gal)
12:08	8/16/2024	1618	2318	~125	2.1	0.4	flow meter stalled
12:47	8/16/2024	1698	2398	~25	1.98	0.2	

INJECTION FIELD TEST LOG

Date:: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Injection Well/: INW-01

Personnel: R. Shealy, J. Ware, G. Wilford

INJECTION LINE READINGS

Time	Date	Totalizer Volume (gal)	Cumulative Volume (gal)	Tank Volume (gal)	Injection Flowrate (gal/min)	Well Head Presure (PSI)	Notes
13:00	8/16/2024	1721	2421	0	0	0	out
13:55	8/16/2024	1787	2487	200	2.25	0.2	Collected MCM-Batch 10 (08162024)
15:19	8/16/2024	1959	2659	25	1.92	0	
15:28	8/16/2024	1975	2675	0	0	0	
8:15	8/17/2024	2018	2718	~225	1.83	0.7	Batch 11
9:05	8/17/2024	2090	2790	~145	1.49	0.2	
9:53	8/17/2024	2161	2861	~40	1.46	0.2	
10:21	8/17/2024	2199	2899	0	0	0	Flow meter needed new batteries, replaced
11:08	8/17/2024	2214	2914	~230	1.86	0.7	
11:55	8/17/2024	2298	2998	~150	1.72	0.2	
12:47	8/17/2024	2384	3084	~50	1.6	0.1	
13:22	8/17/2024	2436	3136	0	0	0	
14:52	8/17/2024	2442	3199	~180	0	0.7	Meter stalled
15:25	8/17/2024	2490	3247	~130	1.77	0.1	Meter stalled

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **DR-01**

Personnel: R. Shealy, J. Ware, G. Wilford

Sampling Equipment: Used tubing in wells at set depths. Reading read with YSI

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
10:12	8/13/2024	6.0	0	N	NA	28.1	6.69	12,639	1.17	-305.7		tubing at 2.5'
10:02	8/13/2024	6.0	0	Y	1.0	27.0	6.71	12,599	4.40	-298.5		tubing at 7.5'
10:15	8/13/2024	6.0	0	N	NA	25.1	6.84	11,945	1.21	-309.6		tubing at 12.5'
17:35	8/13/2024	4.33	472	N	NA	30.5	6.84	12,108	0.87	-287.6	7.35	tubing at 2.5' turb 7.35
17:26	8/13/2024	4.33	472	Y	0.1	27.3	6.36	12,096	0.68	-287.8	5.03	tubing at 7.5' turb 5.03
17:40	8/13/2024	4.33	472	N	NA	26.2	6.83	11,774	0.55	-304.4	4.38	tubing at 12.5' turb 4.38
9:18	8/14/2024	5.43	612	N	NA	26.0	6.63	11,802	1.35	-297.8	11.33	2.5 YSI Peri
9:10	8/14/2024	5.43	579	Y	0.2	25.8	6.75	11,262	1.19	-293.8	2.49	7.5 YSI Peri
8:59	8/14/2024	5.43	550	N	NA	25.5	6.86	10,905	1.26	-296.4	2.55	12.5 YSI Peri
15:58	8/14/2024	4.14	1181	N	--	26.0	6.89	11,050	0.67	-291.8		12.5 YSI Peri
16:04	8/14/2024	4.14	1181	N	1.0	25.4	6.80	11,059	0.91	-300.5	1.87	7.5 YSI Peri
16:15	8/14/2024	4.14	1181	N	--	25.5	6.74	11,400	0.79	-295.6		2.5 YSI Peri
9:32	8/15/2024	5.10	1276	N	--	24.8	6.75	12,318	2.00	-288.4		2.5 YSI Peri
9:21	8/15/2024	5.10	1250	Y	0.5	24.2	6.86	11,627	1.56	-295.0	3.12	7.5 YSI Peri
9:15	8/15/2024	5.10	1231	N	--	24.2	6.97	11,754	2.01	-254.1		12.5 YSI Peri
9:05	8/16/2024	4.71	1998	N	--	25.7	6.84	11,877	1.99	-270.2		12.5' YSI Peri
9:10	8/16/2024	4.71	2010	Y	1.0	24.7	6.89	11,336	1.42	-300.7	1.42	7.5' YSI Peri
9:18	8/16/2024	4.71	2023	N	--	24.6	6.72	10,842	1.49	-294.4		2.5' YSI Peri

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **DR-01**

Personnel: R. Shealy, J. Ware, G. Wilford

Sampling Equipment: Used tubing in wells at set depths. Reading read with YSI

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
9:03	8/17/2024	4.13	2787	N	--	25.0	6.28	12,290	2.22	-253.6		12.5' YSI Peri
9:07	8/17/2024	4.13	2792	Y	0.3	24.2	6.20	12,459	2.10	-247.5	13.6	7.5' YSI Peri
9:12	8/17/2024	4.13	2805	N	--	24.3	6.11	12,805	1.95	-239.8		2.5 YSI Peri
8:55	8/18/2024	4.22	3386	Y	0.5	24.4	6.74	13,238	4.28	-304.6	7.8	7.5' YSI Peri
9:04	8/18/2024	4.22	3386	N	--	25.1	6.74	12,567	3.79	-302.7		2.5' YSI Peri
9:07	8/18/2024	4.22	3386	N	--	23.9	6.92	12,332	3.34	-317.4		12.5' YSI Peri
15:47	8/19/2024	5.97	4329	N	--	29.4	6.88	12,579	1.82	-319.6		12.5' YSI Peri
15:50	8/19/2024	5.97	4329	Y	--	26.8	6.74	12,770	3.56	-319.1	4.66	7.5' YSI Peri
15:55	8/19/2024	5.97	4329	N	--	26.5	6.74	12,720	3.13	-311.5		2.5' YSI Peri

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **DR-02**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
8:40	8/13/2024	5.77	0	N	--	34.88	6.71	11,471	0	-363.2		2.5' Sonde
8:30	8/13/2024	5.77	0	Y	0.0	31.17	7.02	10,280	0	-363.4		7.5' Sonde
8:35	8/13/2024	5.77	0	N	--	33.12	7.14	10,015	0	-368.4		12.5' Sonde
16:20	8/13/2024	4.01	472	Y	0.0	21.74	7.00	10,193	0	-360.4	27.70	7.5' Sonde
16:25	8/13/2024	4.01	472	N	--	22.35	6.76	10,511	0	-359.5		2.5' Sonde
16:28	8/13/2024	4.01	472	N	--	21.65	7.07	10,186	0	-362.4		12.5' Sonde
9:18	8/14/2024	5.22	612	Y	0.1	21.97	6.84	10,746	0	-363.7	59.15	7.5'
9:05	8/14/2024	5.22	579	N	—	22.32	6.87	10,912	0	-362.8		2.5
9:10	8/14/2024	5.22	588	N	—	21.72	7.10	10,171	0	-365.6		12.5
13:22	8/14/2024	5.53	938	Y	0.2	21.82	6.92	9,831	0	-357.4	71.13	7.5'
13:15	8/14/2024	5.53	938	N	--	22.24	6.73	10,143	0	-356.3		2.5'
13:17	8/14/2024	5.53	938	N	--	21.78	7.03	9,978	0	-359.2		12.5'
15:47	8/14/2024	3.95	1181	Y	0.2	21.93	6.85	9,744	0	-348.9	71.54	7.5'
15:39	8/14/2024	3.95	1181	N	--	22.34	6.77	9,554	0	-349.2		2.5'
15:41	8/14/2024	3.95	1181	N	--	21.81	6.99	9,670	0	-350.2		12.5'
8:50	8/15/2024	4.74	1181	Y	0.1	21.71	7.07	9,766	0	-362.3	44.06	7.5'
8:10	8/15/2024	4.74	1181	N	--	22.27	6.75	10,430	0	-360.7		2.5'
8:12	8/15/2024	4.74	1181	N	--	21.63	7.14	9,640	0	-362.8		12.5'

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **DR-02**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
12:10	8/15/2024	5.41	1590	Y	0.0	21.99	6.81	9,606	0	-356.5	12.59	7.5'
12:16	8/15/2024	5.41	1600	N	--	22.37	6.74	9,627	0	-357.6		2.5'
12:19	8/15/2024	5.41	1608	N	--	21.82	6.99	9,618	0	-360.7		12.5'
13:30	8/15/2024	7.65	1688	Y	0.1	21.83	6.88	9,447	0	-360.4	20.26	7.5'
16:25	8/15/2024	4.08	1927	Y	0.1	21.96	6.86	9,234	0	-357.8	0.91	7.5'
16:32	8/15/2024	4.08	1927	N	--	22.32	6.76	9,331	0	-358.1		2.5'
16:35	8/15/2024	4.08	1927	N	--	21.78	6.99	9,321	0	-358.7		12.5'
8:46	8/16/2024	4.37	1927	Y	0.1	21.72	7.01	9,673	0	-365.8	38.14	7.5
8:10	8/16/2024	4.37	1927	N	--	22.16	6.75	10,226	0	-364.2		2.5'
8:12	8/16/2024	4.37	1927	N	--	21.67	7.15	9,455	0	-365.5		12.5'
11:00	8/16/2024	5.32	2181	Y	0.1	21.98	6.81	9,454	0	-357.3	2.55	7.5'
13:12	8/16/2024	5.62	2421	Y	0.1	21.87	6.89	9,109	0	-356.1	7.61	7.5'
13:15	8/16/2024	5.62	2421	N	--	22.25	6.74	9,176	0	-355.9		2.5'
13:17	8/16/2024	5.62	2421	N	--	21.85	7.00	9,181	0	-356.6		12.5'
15:35	8/16/2024	5.30	2675	Y	0.0	21.89	6.94	Not recorded	0	-358.0	3.57	7.5'
8:20	8/17/2024	3.88	2724	Y	0.5	21.81	6.98	9,494	0	-363.3	7.89	7.5
8:25	8/17/2024	3.88	2733	N	--	22.23	6.76	9,888	0	-362.3		2.5'
8:29	8/17/2024	3.88	2740	N	-	21.70	7.05	9,454	0	-364.5		12.5'

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **DR-02**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
10:27	8/17/2024	4.72	2899	Y	0.1	22.0	6.79	9,293	0	-359.7	5.49	7.5'
13:35	8/17/2024	5.63	3136	Y	0.2	22.02	6.83	8,918	0	-358.4	7.41	7.5'
13:30	8/17/2024	5.63	3136	N	--	22.38	6.75	8,949	0	-358.7		2.5'
13:32	8/17/2024	5.63	3136	N	--	21.91	6.91	8,934	0	-358.6		12.5'
17:15	8/17/2024	5.02	3386	Y	0.2	21.98	6.78	8,853	0	-358.0	3.97	7.5'
8:15	8/18/2024	4.20	3386	Y	0.2	21.72	6.96	9,224	0	-363.9	4.82	7.5'
8:20	8/18/2024	4.20	3386	N	--	22.19	6.74	9,923	0	-365.0		2.5'
8:22	8/18/2024	4.20	3386	N	--	21.70	7.09	9,020	0	-366.7		12.5'
12:44	8/18/2024	5.42	3626	Y	0.2	21.97	6.82	8,804	0	-358.5	14.75	7.5'
16:03	8/18/2024	5.90	3861	Y	0.2	22.01	6.84	8,560	0	-355.8	8.74	7.5'
16:10	8/18/2024	5.90	3861	N	--	22.43	6.75	8,498	0	-356.9		2.5'
16:14	8/18/2024	5.90	3861	N	--	21.93	6.88	8,663	0	-358.2		12.5'
8:08	8/19/2024	4.6	3861	N	0.1	21.74	6.99	9,011	0	-362.9		7.5'
8:10	8/19/2024	4.6	3861	N	--	22.27	6.71	9,836	0	-361.2		2.5'
8:12	8/19/2024	4.6	3861	N	--	21.7	7	8,972	0	-362.9		12.5'
11:52	8/19/2024	4.6	4095	N	--	22.09	6.81	8,645	0	-361.2		7.5'
15:20	8/19/2024	5.77	4329	Y	0.5	22.42	6.79	8,449	0	-361	4.97	7.5'
15:30	8/19/2024	5.77	4329	N	--	22.5	6.75	8,337	0	-361.7		2.5'

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **DR-02**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
15:33	8/19/2024	5.77	4329	N	--	22	68.84	8,564	0	-362.5		12.5'

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **DR-03**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde/Purged line with YSI (as indicated)

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
7:49	8/13/2024	5.88	0	N	—	30.58	7.54	6,682	0.00	-447.3		2.5 ft Sonde
7:45	8/13/2024	5.88	0	Y	0.0	29.06	7.71	7,465	0.00	-451.6		7.5 ft Sonde
8:00	8/13/2024	5.88	0	N	—	21.4	7.75	7,459	0.17	-339.9		12.5 ft (YSI)(sonde line short)
15:40	8/13/2024	4.28	472	Y	0.1	22.03	6.91	6,413	0.00	-377.3	40.03	7.5 ft Sonde turb 40.03
15:45	8/13/2024	4.28	472	N	—	22.31	7.44	6,063	0.00	-471.8		2.5 ft Sonde
15:51	8/13/2024	4.28	472	N	—	21.5	7.06	5,489	1.29	-262.4		12.5 ft (YSI)(sonde line short)
7:45	8/14/2024	5.51	472	Y	1.25	22.04	6.94	6,790	0	-367.1	13.98	7.5 turb 13.98. Very dark water
8:01	8/14/2024	5.51	472	N	—	22.52	7.35	5,457	0	-418.0		2.5
8:09	8/14/2024	5.51	472	N	—	22.1	6.93	5,430	0.43	-210.6		12.5
13:00	8/14/2024	5.81	938	Y	1.0	22.12	6.76	6,470	0	-467.8	5.66	7.5' Sonde. Water very dark
12:55	8/14/2024	5.81	938	N	—	22.36	7.29	5,622	0	-505.6		2.5' Sonde
13:06	8/14/2024	5.81	938	N	—	22.4	6.66	5,071	7.7	-206.1		12.5' YSI
15:20	8/14/2024	4.14	1181	Y	2.0	22.19	6.63	6,451	0	-347.2	12.56	7.5' Sonde
15:18	8/14/2024	4.14	1181	N	—	22.42	7.28	5,753	0	-454.1		2.5'
15:37	8/14/2024	4.14	1181	N	—	22.20	6.59	5,238	0.45	-179.5		12.5 YSI
8:05	8/15/2024	4.88	1181	Y	2.0	23.19	6.82	7,028	0	-313.7	48.6	7.5' water very dark
7:58	8/15/2024	4.88	1181	N	--	22.63	7.00	5,943	0	-388.8		2.5'
8:20	8/15/2024	4.88	1181	N	--	23.2	6.44	6,007	1.28	-137.0		12.5' YSI
11:40	8/15/2024	5.42	1520	Y	--	22.50	6.66	6,489	0	-286.8	11.62	7.5' water very dark

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **DR-03**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde/Purged line with YSI (as indicated)

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
11:45	8/15/2024	5.42	1525	N	--	22.58	6.94	5,508	0	-456.7		2.5'
11:53	8/15/2024	5.42	1554	N	--	22.70	6.60	5,494	--	-475.6		12.5'
13:07	8/15/2024	5.91	1688	Y	2.0	22.88	6.71	6,436	0	-224.7	15.30	7.5' water very dark
15:55	8/15/2024	4.41	1927	Y	2.8	22.79	6.60	6,731	0	-285.5	10.70	7.5' water very dark
15:57	8/15/2024	4.41	1927	N	--	22.61	7.28	5,778	0	-397.5		2.5'
16:07	8/15/2024	4.41	1927	N	--	22.90	6.83	5,596	--	-181.7		12.5 YSI
8:07	8/16/2024	4.51	1927	Y	7.5	24.14	6.73	7,054	0	-270.8	24.34	7.5' water very dark
7:55	8/16/2024	4.51	1927	N	--	22.98	6.91	5,911	0	-297.8		2.5'
8:20	8/16/2024	4.51	1927	N	--	23.20	6.48	5,940	1.24	-152.9		12.5'
10:53	8/16/2024	5.55	2181	Y	2.7	23.21	6.69	6,647	0	-234.3	40.7	7.5' water very dark
13:33	8/16/2024	6.01	2418	Y	3.5	23.37	6.53	6,744	0	-404.4	11.54	7.5'
13:45	8/16/2024	6.01	2418	N	--	22.82	7.04	6,310	0	-488.3		2.5'
13:50	8/16/2024	6.01	2438	N	--	20.20	6.66	6,124	0	-215.6		12.5'
16:07	8/16/2024	5.35	2675	Y	4.5	23.32	6.63	7,015	0	-421.0	15.39	7.5' water very dark
7:50	8/17/2024	4.28	2675	Y	6.5	24.94	6.68	7,153	0	-322.3	27.25	7.5' water very dark
7:47	8/17/2024	4.28	2675	N	--	23.36	6.93	7,043	0	-338.5		2.5'
9:32	8/17/2024	4.28	2829	N	--	23.90	7.17	6,071	0	-300.4		12.5' YSI
10:44	8/17/2024	5.05	2899	Y	3.5	24.38	6.62	6,940	0	-217.5	20.63	7.5' water very dark
13:55	8/17/2024	6.01	3136	Y	3.7	22.46	6.37	9,173	0	-414.9	37.9	7.5' water very dark

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **DR-03**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde/Purged line with YSI (as indicated)

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
13:50	8/17/2024	6.01	3136	N	--	22.40	6.37	9,059	0	-415.9		2.5'
14:06	8/17/2024	6.01	3136	N	--	23.90	5.96	6,109	0	-128.1		12.5' YSI
16:55	8/17/2024	5.51	3386	Y	4.5	24.21	6.57	7,037	0	-252.3	7.43	7.5' water very dark
9:20	8/18/2024	4.55	3386	Y	5.5	25.26	6.69	7,184	0	-280.0	27.20	7.5' water dark
9:28	8/18/2024	4.55	3400	N	--	23.58	6.78	7,057	0	-292.8		2.5'
9:34	8/18/2024	4.55	3415	N	--	24.9	6.60	6,462	--	-214.0		12.5'
13:00	8/18/2024	5.78	3626	Y	6.0	24.82	6.47	7,362	0	-253.3	48.45	7.5' water less dark
16:55	8/18/2024	5.83	3861	Y	6.0	24.80	6.55	7,102	0	-277.6	13.84	7.5' dark water
16:45	8/18/2024	5.83	3861	N	--	24.38	6.62	6,703	0	-298.3		2.5'
17:03	8/18/2024	5.83	3861	N	--	24.80	6.39	6,338	0	-164.4		12.5'
7:55	8/19/2024	4.94	3861	N	--	25.68	6.63	6,990	0	-229.1		7.5'
8:00	8/19/2024	4.94	3861	N	--	24.36	6.79	6,907	0	-232.8		2.5'
8:25	8/19/2024	4.94	3880	N	--	25	6.26	6,656	0	-154.1		12.5'
12:00	8/19/2024	4.87	4095	N	--	25.14	6.63	7,162	0	-225.5		7.5'
17:55	8/19/2024		4329	Y	7.5	26.26	6.66	7,196	0	-243.7	30.28	7.5'
18:02	8/19/2024		4329	N	--	24.34	6.85	6,443	0	-255.5		2.5'
18:18	8/19/2024		4329	N	--	24.76	6.51	6,118	--	-126.6		12.5'

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **PT-01**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde/Purged line with YSI (as indicated)

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
9:28	8/13/2024	6.14	0	N	NA	27.8	6.78	11,225	0.77	-232.8		2.5' tubing
9:34	8/13/2024	6.15	0	Y	0.1	28.0	6.80	10,655	0.52	-240.3		7.5' tubing
16:58	8/13/2024	4.25	472	N	NA	26.7	6.78	12,670	1.22	-268.6		2.5' tubing
17:03	8/13/2024	4.25	472	Y	0.1	27.7	6.84	12,736	0.81	-264.9	7.30	7.5' tubing
8:45	8/14/2024	5.67	472	N	NA	24.6	6.77	11,830	1.37	-255.4	3.09	2.5' YSI Peri
8:35	8/14/2024	5.67	472	Y	0.1	24.6	6.82	10,899	0.67	-251.0	5.90	7.5' YSI peri
16:34	8/14/2024	4.06	1181	Y	0.1	25.1	6.76	11,813	1.09	-293.8	2.14	7.5' YSI Peri
16:38	8/14/2024	4.06	1181	N	--	24.3	6.73	11,775	1.42	-290.6		2.5 YSI Peri
9:07	8/15/2024	5.3	1212	N	--	24.1	6.90	11,189	2.33	-237.3		2.5 YSI Peri
8:49	8/15/2024	5.3	1181	Y	0.2	25.4	6.97	10,471	2.74	-209.8	38.45	7.5 YSI Peri
8:45	8/16/2024	4.75	1955	N	--	24.5	6.79	12,117	1.38	-200.3		2.5' YSI Peri
8:50	8/16/2024	4.75	1967	Y	1.0	23.7	6.85	12,301	0.98	-257.6	13.45	7.5' YSI peri
9:23	8/17/2024	4.34	2810	N	--	25.2	6.15	12,963	0.03	-243.1		2.5'
9:27	8/17/2024	4.34	2814	Y	0.2	24.7	6.17	13,205	0.04	-241.6	17.31	7.5'
9:10	8/18/2024	4.3	3386	Y	0.3	25.0	6.76	13,645	3.26	-305.0		7.5'
9:15	8/18/2024	4.3	3386	N	--	24.4	6.77	13,707	3.21	-298.8		2.5'
16:00	8/19/2024	6.13	4329	Y	--	27.8	6.85	13,724	3.77	-310.1	6.6	7.5'
16:05	8/19/2024	6.13	4329	N	--	26.1	6.81	13,709	3.75	-306.1		2.5'

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **PT-02**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde/Purged line with YSI (as indicated)

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
8:27	8/13/2024	5.96	0	N	NA	27.0	6.58	11,130	1.44	-145.0		2.5 ft tubing
8:34	8/13/2024	5.95	0	Y	3.5	27.6	6.54	10,188	0.97	-101.6		7.5 ft tubing
16:34	8/13/2024	4.30	472	N	NA	30.1	6.57	11,907	0.55	-143.0	2.49	2.5 ft tubing
16:39	8/13/2024	4.30	472	Y	2.25	28.6	6.55	11,893	1.00	-161.9	9.44	7.5 ft tubing
8:12	8/14/2024	5.67	472	N	--	24.7	6.56	10,955	1.90	-161.0		2.5' YSI Peri
8:22	8/14/2024	5.67	472	Y	2.0	24.3	6.73	10,504	0.91	-212.7	32.02	7.5' YSI Peri
16:18	8/14/2024	4.19	1181	N	--	24.6	6.53	11,154	1.16	-257.7		2.5' YSI Peri
16:23	8/14/2024	4.19	1181	N	3.5	24.2	6.50	11,212	1.11	-257.4	0.33	7.5' YSI Peri
8:33	8/15/2024	5.31	1181	N	--	24.5	6.54	11,695	1.37	-138.8		2.5' YSI Peri
8:37	8/15/2024	5.31	1181	Y	2.5	24.0	6.62	11,751	1.81	-174.7	0.00	7.5' YSI Peri
8:31	8/16/2024	4.73	1927	N	--	25.2	6.49	11,288	1.86	-115.3		2.5' YSI Peri
8:32	8/16/2024	4.73	1927	Y	2.0	23.7	6.52	11,748	1.23	-139.2	10.75	7.5' YSI Peri
8:45	8/17/2024	4.05	2768	N	--	25.1	5.97	12,231	0.03	-202.5		2.5' YSI Peri
8:50	8/17/2024	4.05	2778	Y	2.5	24.9	5.97	12,618	0.02	-191.5	1.23	7.5' YSI Peri
8:45	8/18/2024	4.32	3386	Y	2.5	24.6	6.50	13,204	4.58	-255.9	2.18	7.5' YSI Peri
8:52	8/18/2024	4.32	3386	N	--	24.5	6.47	12,979	4.32	-269.4		2.5' YSI Peri
16:13	8/19/2024	6.03	4329	N	--	27.8	6.57	12,613	5.62	-293.1		2.5'
16:18	8/19/2024	6.03	4329	Y	--	25.6	6.62	12,792	6.22	-283.1	1.13	7.5'

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **PT-03**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde/Purged line with YSI (as indicated)

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
8:12	8/13/2024	5.71	0	Y	1.75	32.99	6.44	14,477	0.00	-368.4		7.5 ft Sonde
8:17	8/13/2024	5.71	0	N	--	32.26	6.62	10,985	0.00	-375.1		2.5 ft Sonde
15:51	8/13/2024	4.09	472	Y	0.5	22.07	6.61	12,092	0.00	-369.1	159.0	7.5 ft Sonde turb 159.0
16:09	8/13/2024	4.09	472	N	--	22.71	6.58	12,314	0.00	-368.6		2.5 ft Sonde
8:37	8/14/2024	5.58	472	Y	1.25	21.88	6.49	14,087	0.00	-370.7		7.5' Sonde
8:40	8/14/2024	5.58	472	N	--	22.95	6.58	12,197	0.00	-374.9		2.5' Sonde
13:10	8/14/2024	5.57	938	Y	0.5	22.14	6.74	10,153	0.00	-378.6	94.4	7.5'
13:07	8/14/2024	5.57	938	N	--	22.74	6.66	11,221	0	-376.3		2.5' Sonde
15:40	8/14/2024	3.79	1181	Y	1.0	22.09	7.10	6,909	0	-383.1	91.68	7.5'
15:27	8/14/2024	3.79	1181	N	--	22.49	6.80	9,379	0	-379.4		2.5' Sonde
8:40	8/15/2024	4.68	1181	Y	1.5	21.93	6.57	11,685	0	-325.3	109.0	7.5'
8:05	8/15/2024	4.68	1181	N	--	22.80	6.54	10,805	0	-322.7		2.5'
12:02	8/15/2024	5.20	1570	Y	1.3	22.25	7.02	6,088	0	-351.0	2.85	7.5'
12:05	8/15/2024	5.20	1578	N	--	22.65	6.66	10,447	0	-343.5		2.5'
13:22	8/15/2024	5.64	1688	Y	1.1	22.21	6.76	9,237	0	-344.1	12.91	7.5' dark water
16:15	8/15/2024	3.94	1927	Y	1.0	22.17	6.86	7,084	0	-347.5	36.94	7.5' dark water
16:20	8/15/2024	3.94	1927	N	--	22.57	6.67	8,622	0	-347.3		2.5'
8:30	8/16/2024	4.31	1927	Y	1.3	22.02	6.47	13,536	0	-325.0	84.68	7.5'

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **PT-03**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde/Purged line with YSI (as indicated)

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
8:04	8/16/2024	4.31	1927	N	--	22.76	6.49	13,815	0	-325.4		2.5'
10:41	8/16/2024	5.27	2181	Y	1.5	22.34	7.01	7,699	0	-359.5	31.88	7.5' water dark
13:20	8/16/2024	5.73	2421	Y	2.0	22.32	6.61	8,939	0	-360.3	20.41	7.5' water dark
13:30	8/16/2024	5.73	2421	N	--	23.00	6.56	8,028	0	-366.0		2.5'
15:45	8/16/2024	4.89	2675	Y	1.7	22.34	6.81	7,320	0	-406.3	20.39	7.5' water dark
7:54	8/17/2024	4.03	2675	Y	6.0	22.16	6.47	13,400	0	-360.8	89.40	7.5' water dark
7:56	8/17/2024	4.03	2678	N	--	22.63	6.44	13,881	0	-360.9		2.5'
10:35	8/17/2024	4.80	2899	Y	1.8	22.40	6.44	9,125	0	-400.9	19.72	7.5' water very dark
13:45	8/17/2024	5.72	3136	Y	2.5	22.47	6.41	9,084	0	-392.9		7.5' water very dark
13:47	8/17/2024	5.72	3136	N	--	22.78	6.51	9,663	0	-410.2		2.5'
17:05	8/17/2024	5.03	3386	Y	> 7.0	22.41	7.10	6,514	0	-468.0	16.80	7.5' water very dark
8:36	8/18/2024	4.14	3386	Y	--	22.39	6.44	13,959	0	-403.3	8.97	7.5' water very dark
8:47	8/18/2024	4.14	3386	N	--	22.86	6.45	13,931	0	-403.4		2.5'
12:52	8/18/2024	5.45	3626	Y	3.5	22.57	6.34	8,453	0	-467.9	15.99	7.5' water very dark
16:30	8/18/2024	5.55	3861	Y	2.0	22.66	6.30	9,957	0	-419.2	14.75	7.5' very dark water
16:25	8/18/2024	5.55	3861	N	--	22.67	6.32	11,088	0	-426.1		2.5'
8:03	8/19/2024	4.67	3861	N	--	22.60	6.43	15,391	0	-444.1		7.5'
8:06	8/19/2024	4.67	3861	N	--	22.88	6.43	15,549	0	-444.4		2.5'

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ Piezometer: **PT-03**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Sonde/Purged line with YSI (as indicated)

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
11:58	8/19/2024	4.60	4095	N	--	22.77	6.35	9,509	0	-409.5		7.5'
17:45	8/19/2024	5.98	4329	Y	2.5	22.89	6.33	13,394	0	-414.9	12.41	7.5' water very dark
18:04	8/19/2024	5.98	4329	N	--	23.47	6.37	10,396	0	-349.8		2.5'

DOSE RESPONSE MONITORING LOG

Date: 8/13 - 8/19/2024

Weather: Variable - See Field Notes

Site: Georgia Power Plant McManus

Test Area: MCM-06 Pilot Injection Study

Monitoring Well/ **MCM-06**

Personnel: R. Shealy, J. Ware, G. Wilford

Measuring Method: Existing monitoring well and pump

Samples Collected

Time	Date	Depth to Water	Cumulative Volume Injected (gallons)	Analytical Sample Collected? (Y/N)	Ferrous Iron (mg/L)	Geochemical Parameters						Notes
						Temperature (°C)	pH (SU)	Specific Conductivity (uS/cm3)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity	
9:45	8/13/2024	8.60	0	Y	0.0	26.6	7.10	9,220	0.24	-310.5	Not recorded	Midscreen - purged with existing pump
17:44	8/13/2024	6.92	472	Y	0.0	26.0	7.05	9,387	0.39	-330.6	5.02	
9:26	8/14/2024	8.00	637	Y	0.0	24.9	7.17	8,949	1.12	-315.8	1.80	
15:52	8/14/2024	--	1181	Y	0.0	25.0	7.17	8,747	0.96	-268.1	1.79	
9:13	8/15/2024	7.60	1233	Y	0.0	24.1	7.15	9,305	1.33	-296.7	0.37	
8:58	8/16/2024	7.14	1983	Y	0.0	26.0	6.97	9,506	1.76	-305.6	1.30	
8:33	8/17/2024	6.51	2743	Y	0.0	24.3	6.30	9,658	4.62	-262.8	1.56	
8:23	8/18/2024	6.99	3386	Y	0.0	23.7	6.97	10,324	3.21	-268.9	4.28	
15:40	8/19/2024	8.72	4329	Y	0.0	29.8	6.94	9,670	0.05	-309.2	2.22	

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Instrument Calibration

Project Name: McManus Pilot Injection **Date/s:** 8/12 - 8/16

Project Number: _____ **Calibrating Personnel:** Jessica Ware

Date / Time: 8/12 1541 Instrument/s: YSI ProPlus 19J1039168
Weather: Partly Cloudy 93°F

CALIBRANT	Pre-Calibration	Value Entered	Post-Calibration
pH 7.0	6.97	7.0	7.00
pH 4.0	4.01	4.0	4.01
pH 10.0	10.05	10.0	10.00
Sp. Conductivity (ms/cm)	0.990	1.000 ~~1.413~~	0.999
ORP (mV)	178.8	200 ~~240~~	200.0
Dissolved Oxygen (%)	90.5	100%	101.5
Turbidity (NTU)	0.00	0.02	0.02
Notes:	10.03	10.0	10.00
	1,051	1,000	1,000

Barometric Pressure = 781.9 mm Hg

Date / Time: 8/13 0724 Instrument/s: YSI Pro Plus & Micro same # 20231002554
Weather: Clear 86°F

CALIBRANT	Pre-Calibration	Value Entered	Post-Calibration
pH 7.0	4.05	7.0	6.97
pH 4.0	4.12	4.0	4.00
pH 10.0	10.10	10.0	10.00
Sp. Conductivity (ms/cm)	1.048	1.000 ~~1.413~~	1.001
ORP (mV)	20054	200 ~~240~~	200.3
Dissolved Oxygen (%)	116.0	100%	101.7
Turbidity (NTU)	0.04	0.02	0.01
Notes:	9.83	10.0	10.04
	973.1	1,000	1,002

Barometric Pressure = 782.9 mm Hg

Date / Time: 8/13 1257 Instrument/s: YSI Pro Plus 18C1036059
Weather: Clear 94°F

CALIBRANT	Pre-Calibration	Value Entered	Post-Calibration
pH 7.0	6.95	7.0	6.97
pH 4.0	4.05	4.0	4.01
pH 10.0	10.08	10.0	10.00
Sp. Conductivity (ms/cm)	1.210	1.000 ~~1.413~~	1.001
ORP (mV)	182.2	200 ~~240~~	200.0
Dissolved Oxygen (%)	87.2	100%	99.7
Turbidity (NTU)		NA	
Notes:			

Barometric Pressure = 769.6 mm Hg

Date / Time: 8/14 0734 Instrument/s: YSI ProPlus & Micro 19J1039168 + 20231002554
Weather: Overcast 77°F

CALIBRANT	Pre-Calibration	Value Entered	Post-Calibration
pH 7.0	6.94	7.0	7.00
pH 4.0	3.98	4.0	4.00
pH 10.0		10.0	
Sp. Conductivity (ms/cm)	1.065	1.000 ~~1.413~~	1.001
ORP (mV)	195.1	200 ~~240~~	200.0
Dissolved Oxygen (%)		100%	
Turbidity (NTU)	0.02	0.02	0.02
Notes:	9.83	10	9.94
	1,011	1,000	1,000

Barometric Pressure = 782.6 mm Hg

Clear/Cloudy 77°F Micro Turb: 2023

8/15/24 0946 YSI ProPlus: 19J10

	pre	std	post
pH 7	6.99	7	6.98
pH 4	4.11	4	4.00
pH 10	10.09	10	10.00
Cond	0.946	1.000 mS/cm	0.999
ORP	207.0	200 mV	200.2
DO %	79.3	100%	103.1
Turbidity	0.46	0.02	0.01
	8.63	10.0	10.02
	1,022	1,000	1,013

Barometer: 784.0 mm Hg

Clear 71°F

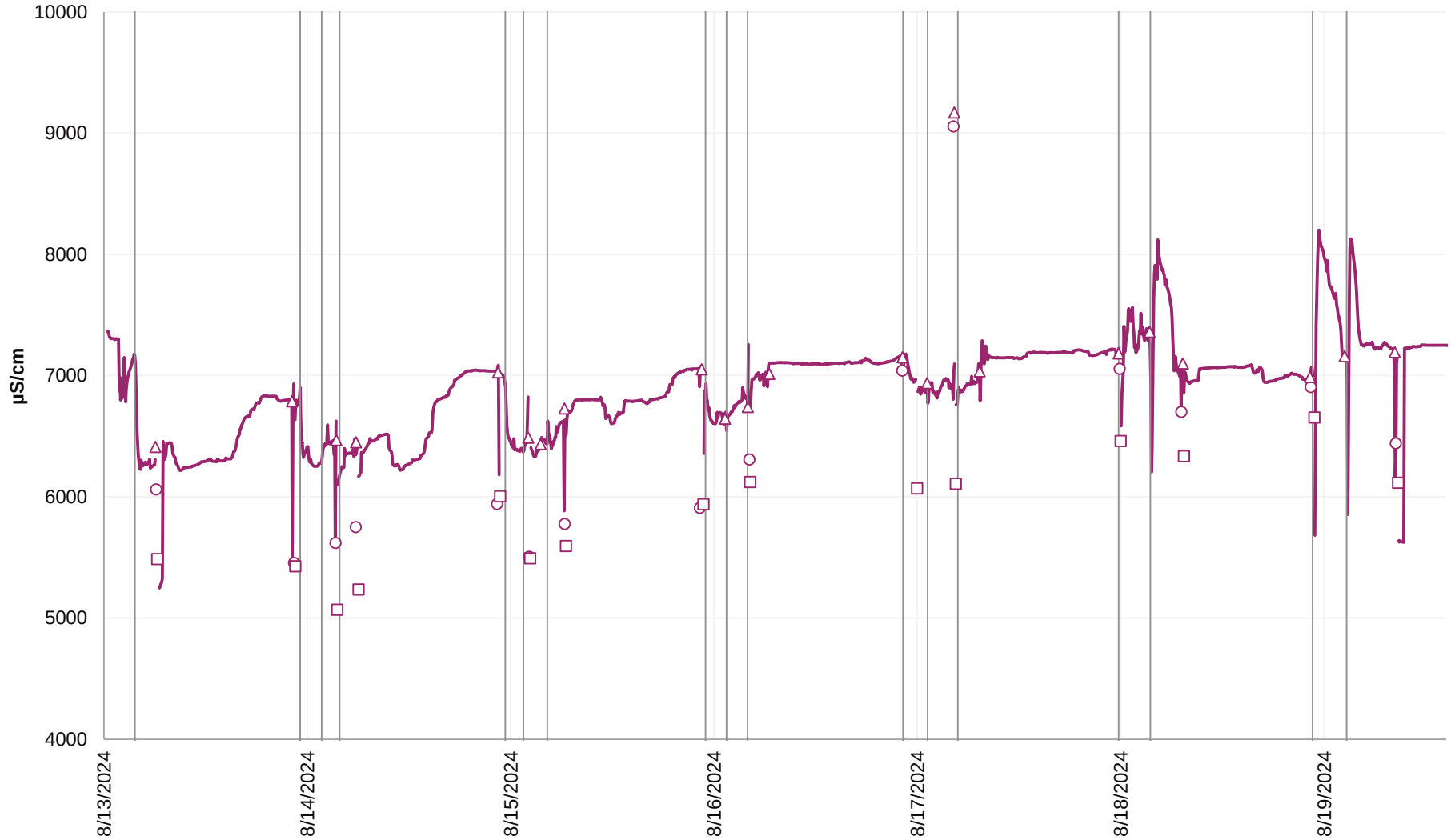
8/16/24 0740 YSI Pro Plus Micro

	pre	std	post
pH 7	6.97	7	7.00
pH 4	3.97	4	4.00
pH 10	10.01	10	10.00
ORP	200.6	200	200.0
Cond	0.994	1.000	0.999
DO %	114.8	100%	102.2
Turbidity	0.41	0.02	0.02
	12.12	10	10.06
	1100	1,000	992.9

Barometer: 784.6

Appendix E

Field Parameter Data



Legend

- Injection Batch
- DR-03
- FP - 2.5 ft
- FP - 7.5 ft
- FP - 12.5 ft

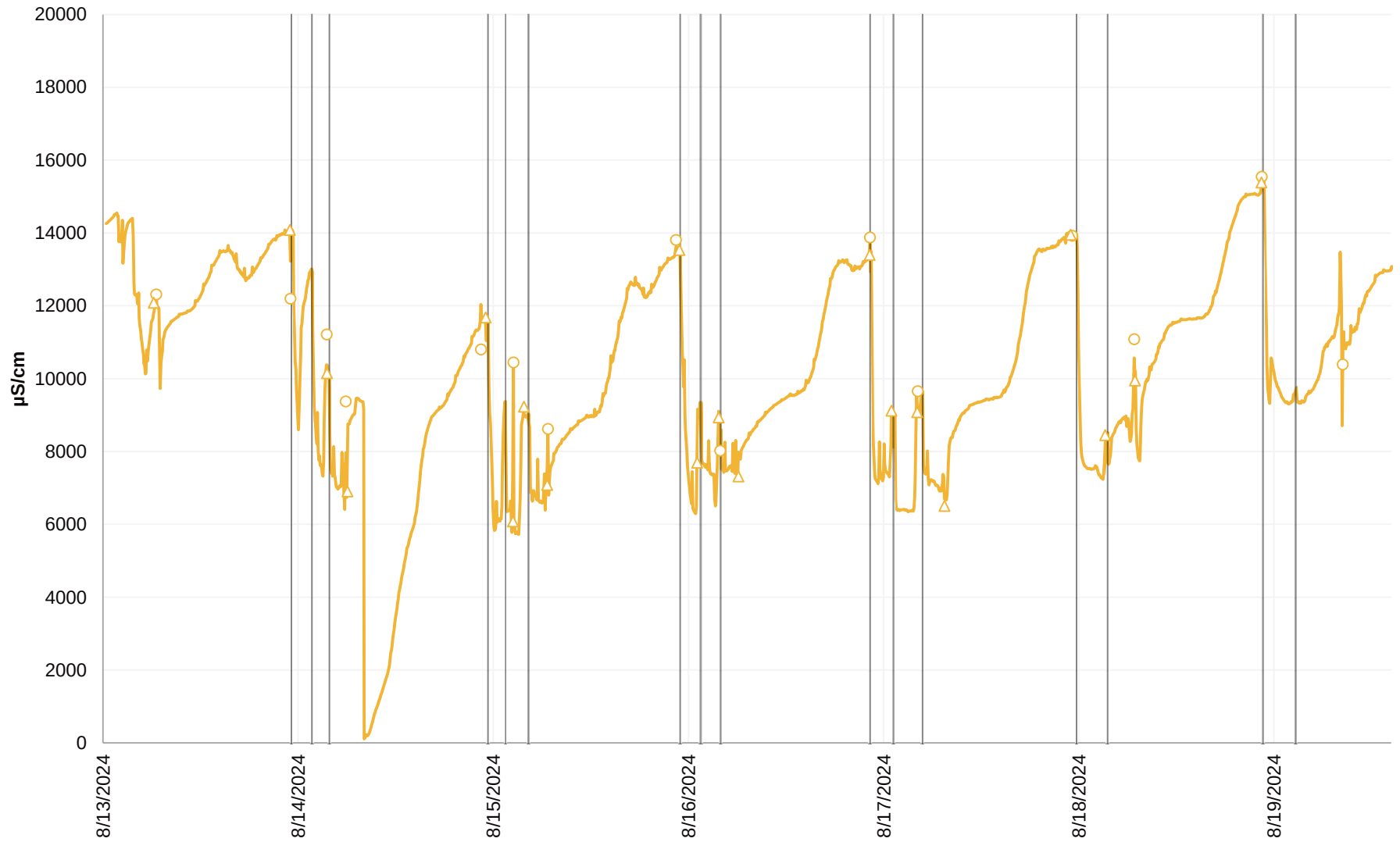
Notes:
1. Field parameter number shown indicates depth from top of screen.
FP = field parameter grab measurement within screened interval
ft = feet
µS/cm = microSiemens per centimeter

GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

DR-03 SPECIFIC CONDUCTIVITY AND INJECTION TIME SERIES

ARCADIS

FIGURE
E1



Legend

- Injection Batch
- PT-03
- FP - 2.5 ft
- FP - 7.5 ft

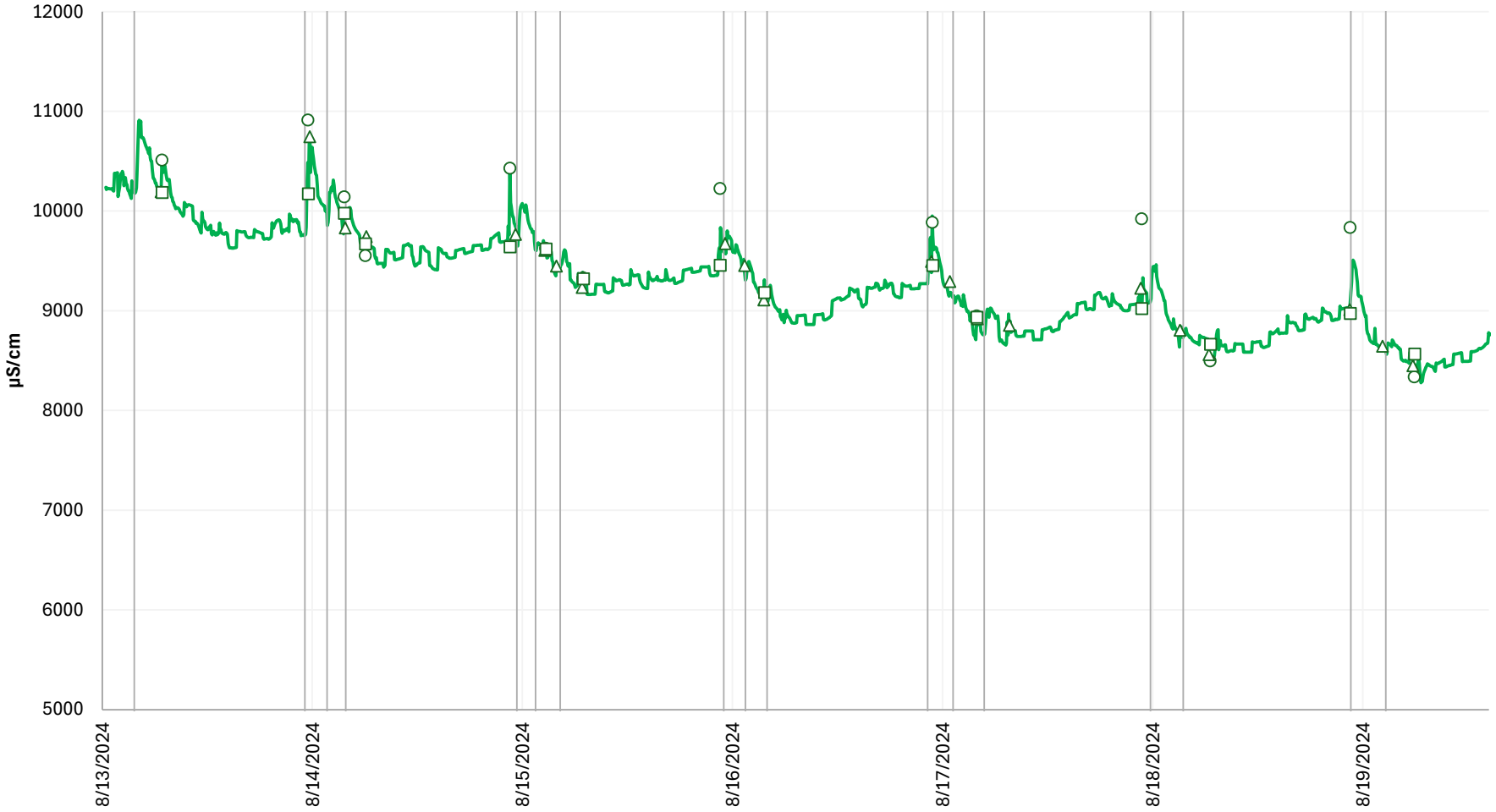
Notes:
1. Field parameter number shown indicates depth from top of screen.
FP = field parameter grab measurement within screened interval
ft = feet
µS/cm = microSiemens per centimeter

GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

PT-03 SPECIFIC CONDUCTIVITY AND INJECTION TIME SERIES

ARCADIS

FIGURE
E2



Legend

- Injection Batch
- DR-02
- FP - 2.5 ft
- FP - 7.5 ft
- FP - 12.5 ft

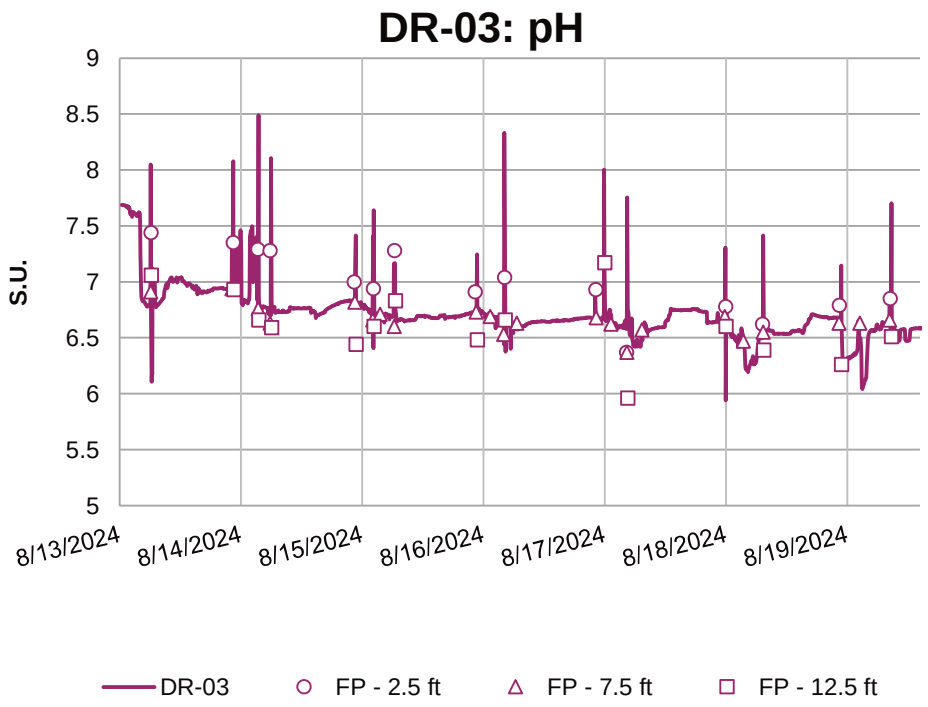
Notes:
1. Field parameter number shown indicates depth from top of screen.
FP = field parameter grab measurement within screened interval
ft = feet
µS/cm = microSiemens per centimeter

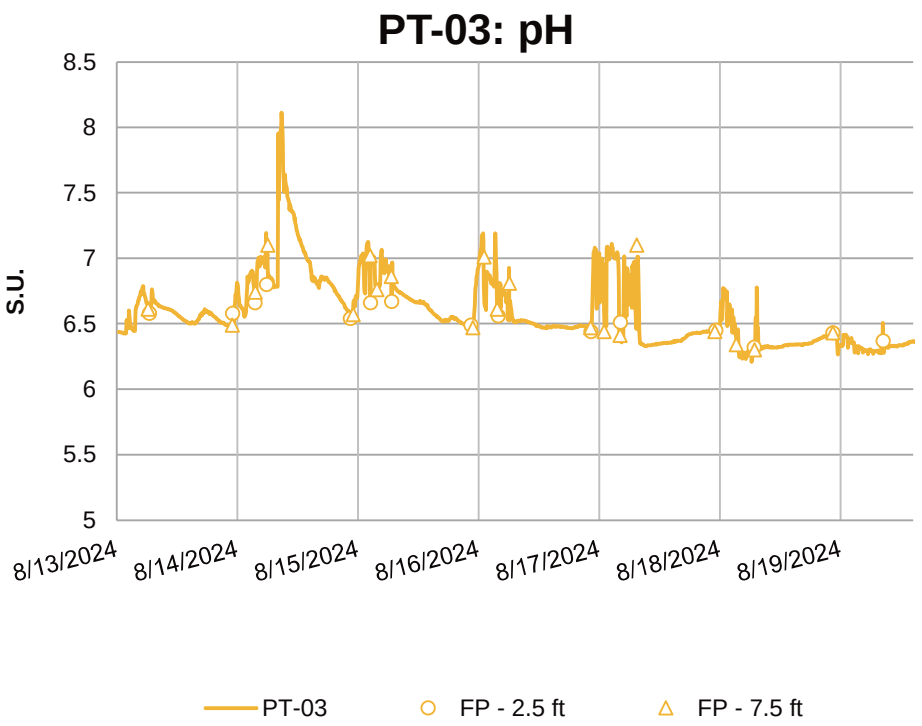
GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

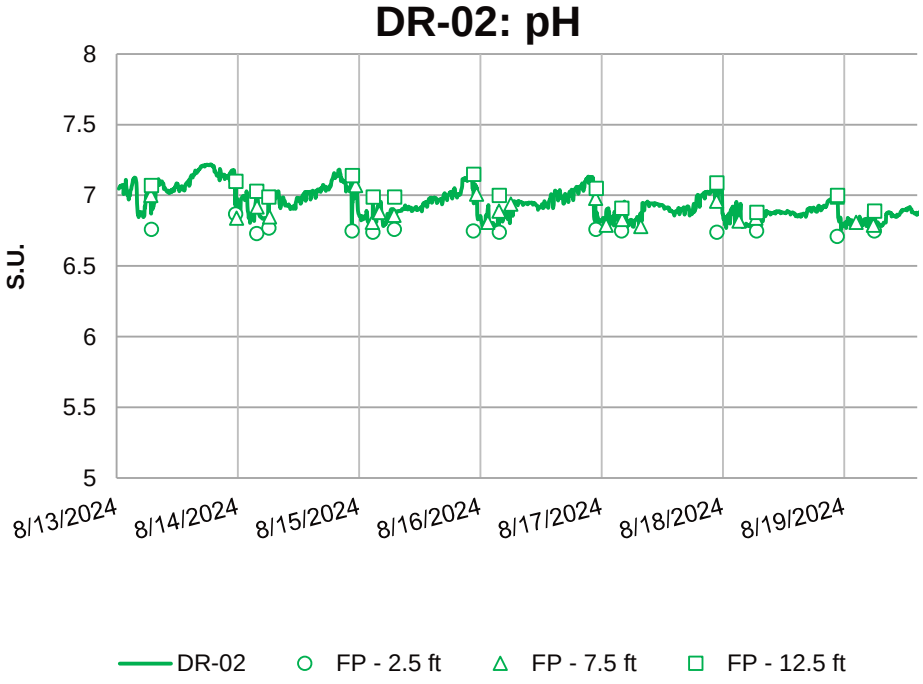
DR-02 SPECIFIC CONDUCTIVITY AND INJECTION TIME SERIES

ARCADIS

FIGURE
E3







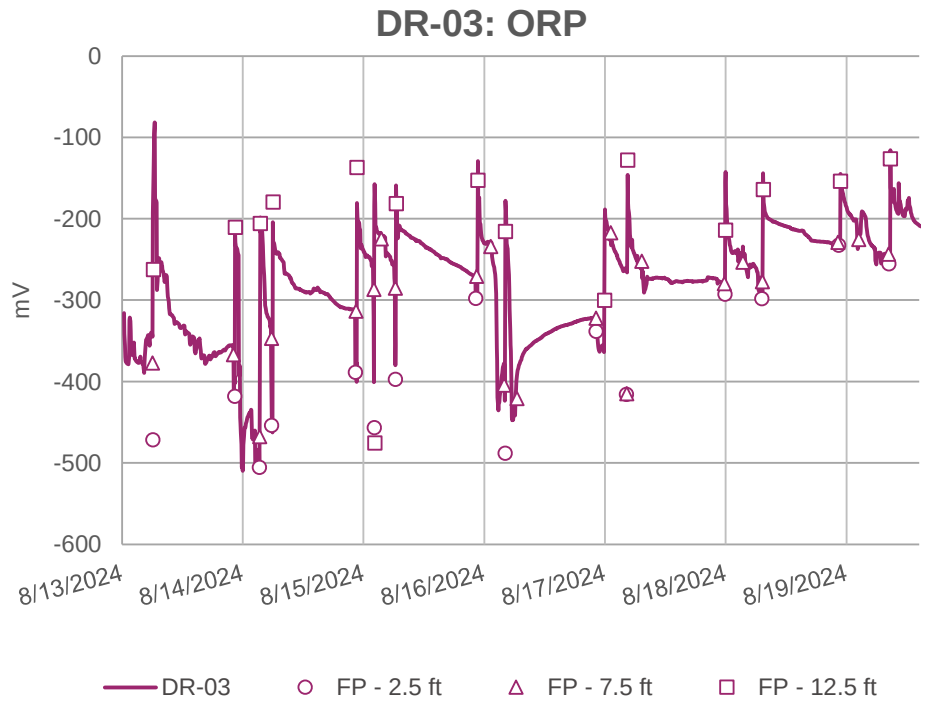
Notes:
1. Field parameter number shown indicates depth from top of screen..
FP = field parameter grab measurement within screened interval
ft = feet
mV = millivolt
S.U. = Standard Units

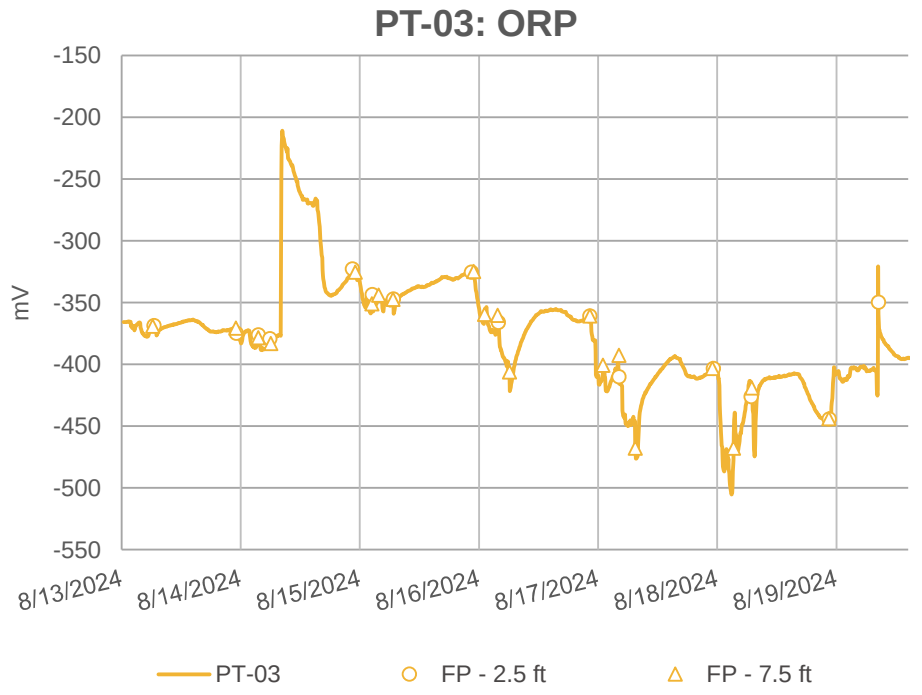
GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

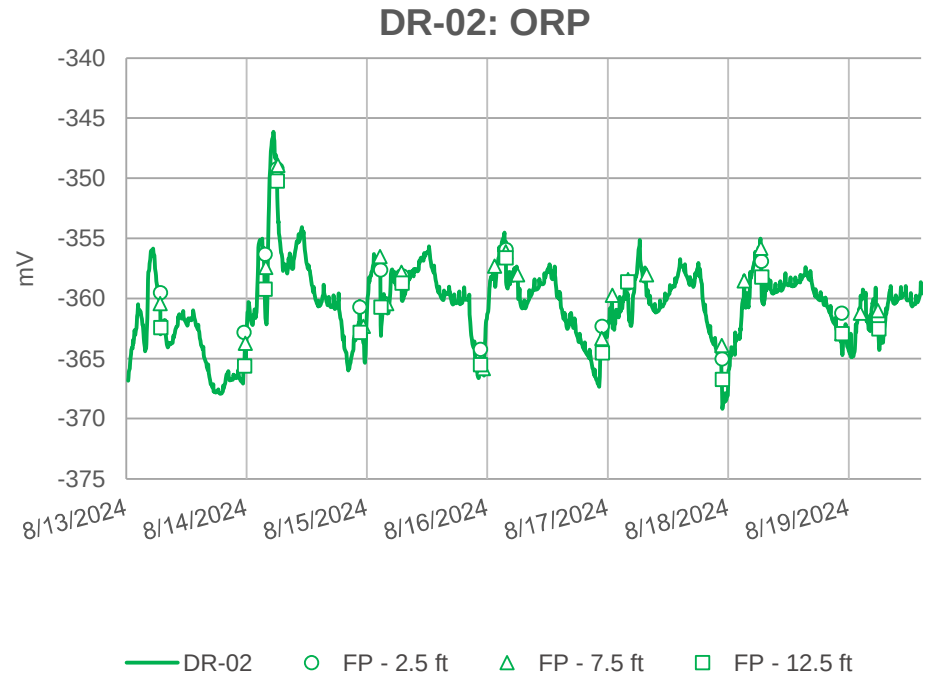
PH TIME SERIES – DOSE RESPONSE WELLS

ARCADIS

FIGURE
E4







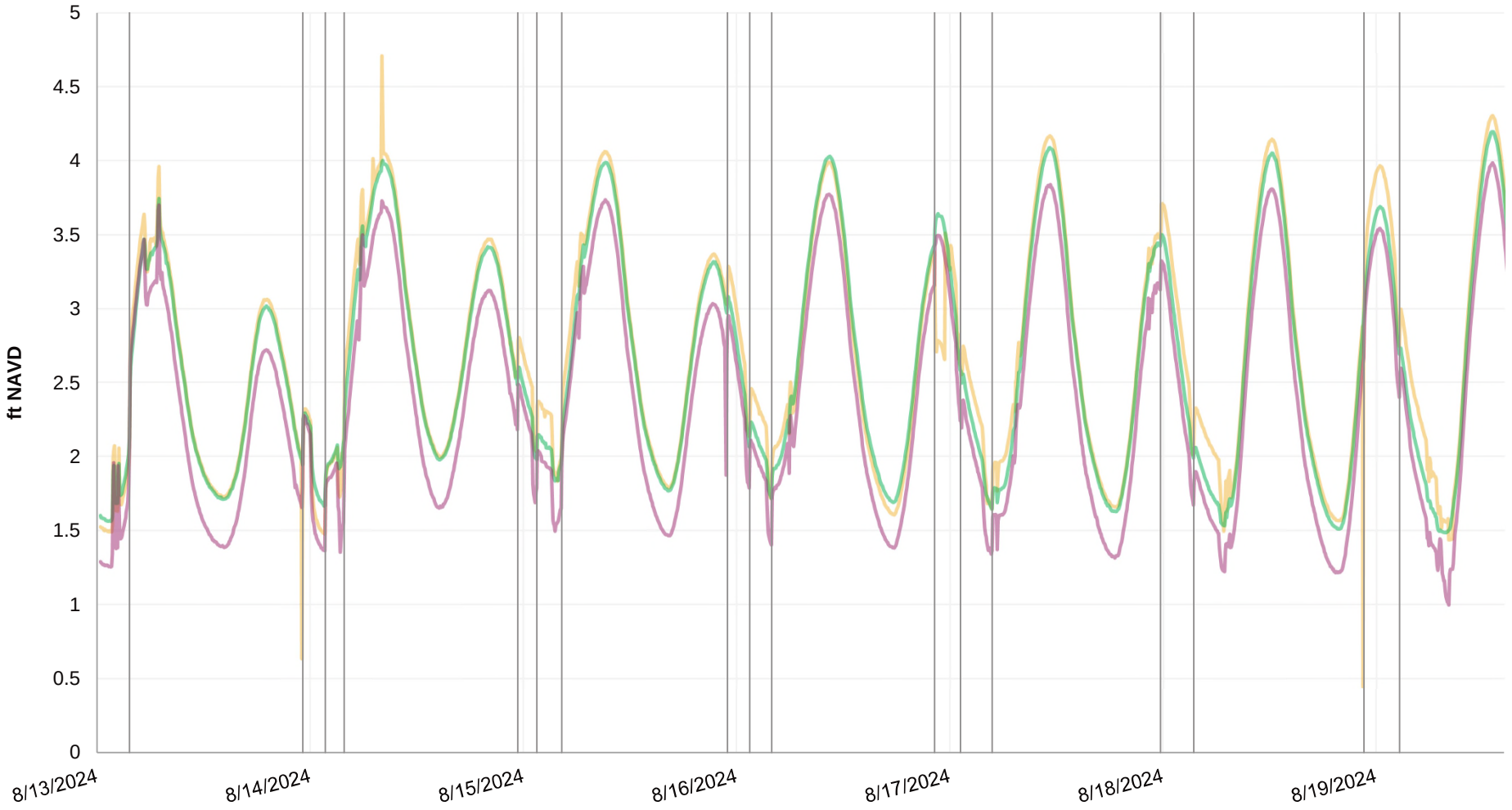
Notes:
1. Field parameter number shown indicates depth from top of screen.
FP = field parameter grab measurement within screened interval
ft = feet
mV = millivolt
ORP = oxidation-reduction potential

GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

ORP TIME SERIES – DOSE RESPONSE WELLS

ARCADIS

FIGURE
E5



Legend

- PT-03 Elevation (ft NAVD)
- DR-02 Elevation (ft NAVD)
- DR-03 Elevation (ft NAVD)

Note:
ft NAVD = feet North American Vertical Datum of 1988

GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

GROUNDWATER ELEVATION – DOSE RESPONSE WELLS

ARCADIS

FIGURE
E6

Arcadis U.S., Inc.
2839 Paces Ferry Road, Suite 900
Atlanta, GA 30339
United States
Phone: 770 431 8666
Fax: 770 435 2666
www.arcadis.com

Appendix B

Field Instrumentation Calibration Form

Site Name: McKinnis ACDL

Date: 8/27/24

Calibrated By: KMS

Field Conditions: 68°| 73°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080293
Turbidity Meter	LaMotte 2020	1586-3019

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	99.2	23.87	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,180.4	24.42	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	24.52	± 0.1	GWMP
pH (SU)	7.00	6.98	24.78	± 0.1	GWMP
pH (SU)	10.00	10.07	24.88	± 0.1	GWMP
ORP (mV)	228.0	224.0	24.90	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.04	± 10% of standard	EPA 2023
	1.00	1.10		
	10.00	9.51		

Calibration Check					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4519.3	27.43	± 10% of standard	EPA 2023
pH (SU)	4.00	4.13	27.42	± 0.1	GWMP
pH (SU)	7.00	7.15	27.89	± 0.1	GWMP
pH (SU)	10.00	10.07	28.25	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	-0.03	± 10% of standard	EPA 2023
	1.00	1.09		
	10.00	9.86		

Notes:

Site Name: McManus AGM

Field Instrumentation Calibration Form

Date: 8/28/24

Calibrated By: SDS

Field Conditions: 90°/77°, 30%

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080293
Turbidity Meter	LaMotte 2020	1571-3019

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	101.30	24.61	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,480.4	24.91	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	24.93	± 0.1	GWMP
pH (SU)	7.00	7.02	24.97	± 0.1	GWMP
pH (SU)	10.00	9.98	24.94	± 0.1	GWMP
ORP (mV)	228.0	227.3	24.88	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.09	± 10% of standard	EPA 2023
	1.00	0.98		
	10.00	10.09		

Calibration Check					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,611.1	30.55	± 10% of standard	EPA 2023
pH (SU)	4.00	4.12	30.49	± 0.1	GWMP
pH (SU)	7.00	7.20	30.19	± 0.1	GWMP
pH (SU)	10.00	10.10	30.29	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	-0.03	± 10% of standard	EPA 2023
	1.00	0.98		
	10.00	10.03		

Notes:

Site Name: Plant McManus

Calibrated By: Natalie Piparo

Field Instrumentation Calibration Form

Date: 9/5/24

Field Conditions: L 75 H 82 rainy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080297
Turbidity Meter	LaMotte 2020	1596-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration

Time Start	7:30	Time Finish	7:42		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	97.30	25.09	± 10%	NA
Specific Conductance (µS/cm)	4,490	9132.3	25.27	± 10% of standard	EPA 2023
pH (SU)	4.00	4.25	25.38	± 0.1	GWMP
pH (SU)	7.00	7.05	25.45	± 0.1	GWMP
pH (SU)	10.00	10.04	25.52	± 0.1	GWMP
ORP (mV)	228.0	219.8	25.54	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.21		
	10.00	9.95		

Calibration Check

Time Start	17:07	Time Finish	17:22		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	3935.6	25.01	± 10% of standard	EPA 2023
pH (SU)	4.00	4.12	25.01	± 0.1	GWMP
pH (SU)	7.00	7.16	24.99	± 0.1	GWMP
pH (SU)	10.00	10.16	24.89	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	0.98		
	10.00	9.91		

Notes:

Site Name McKinnis ACM

Field Instrumentation Calibration Form

Date 9/5/24

Calibrated By KMS

Field Conditions 82°/72°, 30%

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	10E0293
Turbidity Meter	LaMotte 2020	1571-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4 490	24010943	05/2025	Atlanta Instrument Rental, Inc
pH (SU)	4 00	24010943	05/2025	Atlanta Instrument Rental, Inc
pH (SU)	7 00	24008587	06/2025	Atlanta Instrument Rental, Inc
pH (SU)	10 00	24004996	06/2025	Atlanta Instrument Rental, Inc
D O (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc
ORP (mV)	228 0	24011792	06/2025	Atlanta Instrument Rental, Inc

Calibration					
Time Start	0720	Time Finish	0756		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D O (%)	N/A	97.65	24.78	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,525.0	24.88	± 10% of standard	EPA 2023
pH (SU)	4 00	4.04	24.84	± 0.1	GWMP
pH (SU)	7.00	7.04	24.83	± 0.1	GWMP
pH (SU)	10 00	10.0	24.87	± 0.1	GWMP
ORP (mV)	228 0	226.2	24.88	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0 00	-0.02	± 10% of standard	EPA 2023
	1 00	1.05		
	10 00	10.14		

Calibration Check					
Time Start	1701	Time Finish	1721		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4422.9	25.02	± 10% of standard	EPA 2023
pH (SU)	4 00	4.15	25.02	± 0.1	GWMP
pH (SU)	7 00	7.16	24.91	± 0.1	GWMP
pH (SU)	10 00	10.16	24.93	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	-0.23	± 10% of standard	EPA 2023
	1.00	0.93		
	10.00	9.73		

Notes

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 9/12/24

Calibrated By: Natalie Piparo

Field Conditions: H 83 L 75

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080297
Turbidity Meter	LaMotte 2020	1571-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	8:19	Time Finish	8:34		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	100.61	25.04	± 10%	NA
Specific Conductance (µS/cm)	4,490	4701.9	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	3.98	25.04	± 0.1	GWMP
pH (SU)	7.00	6.92	24.93	± 0.1	GWMP
pH (SU)	10.00	9.99	24.85	± 0.1	GWMP
ORP (mV)	228.0	228.8	24.81	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.02		
	10.00	10.09		

Calibration Check					
Time Start	16:42	Time Finish	16:47		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4510.5	25.66	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	25.66	± 0.1	GWMP
pH (SU)	7.00	7.16	25.58	± 0.1	GWMP
pH (SU)	10.00	10.17	25.41	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.02	± 10% of standard	EPA 2023
	1.00	0.92		
	10.00	10.17		

Notes:

Site Name: McManus

Field Instrumentation Calibration Form

Date: 9/12/24

Calibrated By: Jay Siewert

Field Conditions: 84°/76°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0818	**Time Finish**	0829		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	102.67	25.53	± 10%	NA
Specific Conductance (µS/cm)	4,490	4508.3	25.53	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	25.54	± 0.1	GWMP
pH (SU)	7.00	7.01	25.39 ~~25.53~~	± 0.1	GWMP
pH (SU)	10.00	10.00	25.38	± 0.1	GWMP
ORP (mV)	228.0	228.0	25.33	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.98		
	10.00	9.85		

Calibration Check					
Time Start	1635	**Time Finish**	1642		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4456.4	26.13	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	26.32	± 0.1	GWMP
pH (SU)	7.00	7.06	26.15	± 0.1	GWMP
pH (SU)	10.00	9.95	25.99	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.96		
	10.00	9.77		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 9/17/24

Calibrated By: Natalie Piparo

Field Conditions: L 64 H 84

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080297
Turbidity Meter	LaMotte 2020	1571-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	7:45	Time Finish	8:03		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	97.94	20.02	± 10%	NA
Specific Conductance (µS/cm)	4,490	4631.5	19.91	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	19.94	± 0.1	GWMP
pH (SU)	7.00	7.05	19.92	± 0.1	GWMP
pH (SU)	10.00	10.04	19.89	± 0.1	GWMP
ORP (mV)	228.0	234.7	19.95	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.04	± 10% of standard	EPA 2023
	1.00	1.03		
	10.00	10.08		

Calibration Check					
Time Start	17:11	Time Finish	17:23		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	44043.2	29.81	± 10% of standard	EPA 2023
pH (SU)	4.00	4.14	29.82	± 0.1	GWMP
pH (SU)	7.00	7.17	30.51	± 0.1	GWMP
pH (SU)	10.00	10.18	29.87	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.97		
	10.00	10.00		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 9/17/24

Calibrated By: Jay Sievert

Field Conditions: 83°/62°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	~~8506~~ 850762
Turbidity Meter	LaMotte 2020	~~1596-3019~~ 2068-0320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0759	**Time Finish**	0811		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	~~101~~ 100.97	20.15	± 10%	NA
Specific Conductance (µS/cm)	4,490	4497.3	20.22	± 10% of standard	EPA 2023
pH (SU)	4.00	3.97	20.30	± 0.1	GWMP
pH (SU)	7.00	7.00	20.52	± 0.1	GWMP
pH (SU)	10.00	10.02	20.69	± 0.1	GWMP
ORP (mV)	228.0	235.8	20.51	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.97		
	10.00	9.99		

Calibration Check					
Time Start	1710	**Time Finish**	1726		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4501.6	28.63	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	28.97	± 0.1	GWMP
pH (SU)	7.00	7.05	28.83	± 0.1	GWMP
pH (SU)	10.00	10.10	29.90	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.93		
	10.00	10.08		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 9/18/24

Calibrated By: Natalie Piparo

Field Conditions: L70 H83

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080297
Turbidity Meter	LaMotte 2020	1671-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	8:28	Time Finish	8:47		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	102.65	23.46	± 10%	NA
Specific Conductance (µS/cm)	4,490	4479.4	23.29	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.14	± 0.1	GWMP
pH (SU)	7.00	7.01	24.32	± 0.1	GWMP
pH (SU)	10.00	10.02	24.41	± 0.1	GWMP
ORP (mV)	228.0	220.2	24.30	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.03		
	10.00	9.99		

Calibration Check					
Time Start	15:01	Time Finish	15:07		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4526.1	28.15	± 10% of standard	EPA 2023
pH (SU)	4.00	4.14	28.13	± 0.1	GWMP
pH (SU)	7.00	7.12	28.08	± 0.1	GWMP
pH (SU)	10.00	10.18	28.77	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	0.98		
	10.00	10.00		

Notes:

Site Name: Plant McMinns

Field Instrumentation Calibration Form

Date: 10/1/24

Calibrated By: Natalie Pipano

Field Conditions: M 85 L 71

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080797
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	7:56	**Time Finish**	8:20		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	94.49	24.90	± 10%	NA
Specific Conductance (µS/cm)	4,490	4484.7	24.76	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	24.77	± 0.1	GWMP
pH (SU)	7.00	7.13	24.91	± 0.1	GWMP
pH (SU)	10.00	10.03	25.11	± 0.1	GWMP
ORP (mV)	228.0	221.4	25.31	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	0.94		
	10.00	10.22		

Calibration Check					
Time Start	17:49	**Time Finish**	17:50		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4603.2	29.79	± 10% of standard	EPA 2023
pH (SU)	4.00	4.11	29.70	± 0.1	GWMP
pH (SU)	7.00	7.16	29.21	± 0.1	GWMP
pH (SU)	10.00	10.15	30.23	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	-0.01	± 10% of standard	EPA 2023
	1.00	0.97		
	10.00	9.99		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 10/1/24

Calibrated By: Jay Stewart

Field Conditions: 85°/69°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	2068-0320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0800	**Time Finish**	0811		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	101.87	24.65	± 10%	NA
Specific Conductance (µS/cm)	4,490	4490.2	24.81	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	24.94	± 0.1	GWMP
pH (SU)	7.00	7.06	24.92	± 0.1	GWMP
pH (SU)	10.00	10.05	24.98	± 0.1	GWMP
ORP (mV)	228.0	225.0	24.99	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.04		
	10.00	9.99		

Calibration Check					
Time Start	1742	**Time Finish**	1753		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4587.7	30.01	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	30.02	± 0.1	GWMP
pH (SU)	7.00	7.07	29.76	± 0.1	GWMP
pH (SU)	10.00	10.04	29.69	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.01		
	10.00	10.07		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 10/2/24

Calibrated By: Natalie Piparo

Field Conditions: L 71 / H 82

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080297
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	8:11	**Time Finish**	8:26		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	110.08	26.33	± 10%	NA
Specific Conductance (µS/cm)	4,490	4523.2	25.74	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	26.47	± 0.1	GWMP
pH (SU)	7.00	7.01	25.73	± 0.1	GWMP
pH (SU)	10.00	10.02	25.33	± 0.1	GWMP
ORP (mV)	228.0	229.6	24.45	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.99		
	10.00	10.28		

Calibration Check					
Time Start	11:03	**Time Finish**	11:09		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4580.5	30.14	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	30.13	± 0.1	GWMP
pH (SU)	7.00	7.14	30.23	± 0.1	GWMP
pH (SU)	10.00	10.10	31.80	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.02	± 10% of standard	EPA 2023
	1.00	1.00		
	10.00	10.16		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 10/2/24

Calibrated By: Jay Sievert

Field Conditions: 840/65°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	2068-0320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0811	**Time Finish**	0824		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	101.47	22.61	± 10%	NA
Specific Conductance (µS/cm)	4,490	4552.8	22.83	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	22.92	± 0.1	GWMP
pH (SU)	7.00	6.99	23.25	± 0.1	GWMP
pH (SU)	10.00	9.99	23.38	± 0.1	GWMP
ORP (mV)	228.0	229.9	23.28	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.09		
	10.00	10.19		

Calibration Check					
Time Start	1103	**Time Finish**	1113		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4257.7	33.88	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	33.71	± 0.1	GWMP
pH (SU)	7.00	7.10	35.52	± 0.1	GWMP
pH (SU)	10.00	9.99	36.61	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.07		
	10.00	9.86		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 10/15/24

Calibrated By: Natalie Pigano

Field Conditions: H77 L54

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	7042-3818
Turbidity Meter	LaMotte 2020	1080297

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	07:29	**Time Finish**	07:40		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	98.89	16.64	± 10%	NA
Specific Conductance (µS/cm)	4,490	4631.4	16.83	± 10% of standard	EPA 2023
pH (SU)	4.00	4.05	16.91	± 0.1	GWMP
pH (SU)	7.00	7.07	16.98	± 0.1	GWMP
pH (SU)	10.00	10.10	17.02	± 0.1	GWMP
ORP (mV)	228.0	237.6	16.81	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.05		
	10.00	10.20		

Calibration Check					
Time Start	17:58	**Time Finish**	18:09		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4449.0	26.99	± 10% of standard	EPA 2023
pH (SU)	4.00	4.15	26.97	± 0.1	GWMP
pH (SU)	7.00	7.15	27.06	± 0.1	GWMP
pH (SU)	10.00	10.04	27.15	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.10		
	10.00	9.99		

Notes:

Site Name: Plant McManus

Calibrated By: Jay Siewert

Field Instrumentation Calibration Form

Date: 10/15/24

Field Conditions: 77°/50°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	2068-0320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0722	**Time Finish**	0740		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	98.03	16.64	± 10%	NA
Specific Conductance (µS/cm)	4,490	4484.6	16.32	± 10% of standard	EPA 2023
pH (SU)	4.00	3.99	16.27	± 0.1	GWMP
pH (SU)	7.00	7.04	15.73	± 0.1	GWMP
pH (SU)	10.00	10.10	15.57	± 0.1	GWMP
ORP (mV)	228.0	237.6	15.47	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.01		
	10.00	9.71		

Calibration Check					
Time Start	1752	**Time Finish**	1808		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4443.3	22.75	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	23.36	± 0.1	GWMP
pH (SU)	7.00	~~7.10~~ 7.06	23.60	± 0.1	GWMP
pH (SU)	10.00	10.09	25.03	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.96		
	10.00	9.81		

Notes:

Site Name: Plant McManus

Calibrated By: Jay Siewert

Field Instrumentation Calibration Form

Date: 10/16/24

Field Conditions: 68°/48°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	2068-0320

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0824	Time Finish	0840		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	99.44	17.45	± 10%	NA
Specific Conductance (µS/cm)	4,490	4525.6	17.22	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	17.23	± 0.1	GWMP
pH (SU)	7.00	7.02	17.36	± 0.1	GWMP
pH (SU)	10.00	10.08	17.36	± 0.1	GWMP
ORP (mV)	228.0	241.6	16.31	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.03		
	10.00	9.96		

Calibration Check					
Time Start	1122	Time Finish	1131		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4542.7	18.03	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	18.11	± 0.1	GWMP
pH (SU)	7.00	7.07	17.65	± 0.1	GWMP
pH (SU)	10.00	10.05	17.79	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.94		
	10.00	10.01		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 10/29/24

Calibrated By: 78°/61°

Field Conditions: 78°/61°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0745	**Time Finish**	0807		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	102.42	17.45	± 10%	NA
Specific Conductance (µS/cm)	4,490	4521.8	17.33	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	17.33	± 0.1	GWMP
pH (SU)	7.00	7.08	17.16	± 0.1	GWMP
pH (SU)	10.00	10.14	17.09	± 0.1	GWMP
ORP (mV)	228.0	227.8	17.19	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.00		
	10.00	9.77		

Calibration Check					
Time Start	1656	**Time Finish**	1708		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4407.8	23.78	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	23.76	± 0.1	GWMP
pH (SU)	7.00	7.10	24.26	± 0.1	GWMP
pH (SU)	10.00	10.05	24.58	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.00		
	10.00	9.33		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 10/29/24

Calibrated By: Natalie Piparo

Field Conditions: L60 1178

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080297
Turbidity Meter	LaMotte 2020	2068-0320

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	7:40	Time Finish	08:04		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	102.71	16.93	± 10%	NA
Specific Conductance (µS/cm)	4,490	4462.5	17.46	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	17.58	± 0.1	GWMP
pH (SU)	7.00	7.11	17.80	± 0.1	GWMP
pH (SU)	10.00	10.22	17.89	± 0.1	GWMP
ORP (mV)	228.0	224.8	17.44	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.17		
	10.00	10.97		

Calibration Check					
Time Start	1654	Time Finish	1703		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4394.0	21.93	± 10% of standard	EPA 2023
pH (SU)	4.00	4.20	21.63	± 0.1	GWMP
pH (SU)	7.00	7.27	21.87	± 0.1	GWMP
pH (SU)	10.00	10.13	22.66	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	-0.02	± 10% of standard	EPA 2023
	1.00	1.14		
	10.00	9.99		

Notes:

Site Name: Plant McManus

Calibrated By: Jay Stewart

Field Instrumentation Calibration Form

Date: 11/12/24

Field Conditions: 78°/58°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0812	**Time Finish**	0830		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.19	20.29	± 10%	NA
Specific Conductance (µS/cm)	4,490	4398.8	20.10	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	20.09	± 0.1	GWMP
pH (SU)	7.00	7.09	20.19	± 0.1	GWMP
pH (SU)	10.00	10.10	20.37	± 0.1	GWMP
ORP (mV)	228.0	220.5	20.36	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.06		
	10.00	9.80		

Calibration Check					
Time Start	1637	**Time Finish**	1646		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4468.9	24.49	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	24.84	± 0.1	GWMP
pH (SU)	7.00	7.17	24.73	± 0.1	GWMP
pH (SU)	10.00	10.13	25.02	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.95		
	10.00	9.89		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 11/12/24

Calibrated By: William Leaker

Field Conditions: 78°/61° sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080297
Turbidity Meter	LaMotte 2020	2068-0320

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	8:14	Time Finish	8:25		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	94.98	19.90	± 10%	NA
Specific Conductance (µS/cm)	4,490	4654.5	19.84	± 10% of standard	EPA 2023
pH (SU)	4.00	3.89	19.89	± 0.1	GWMP
pH (SU)	7.00	6.83	20.03	± 0.1	GWMP
pH (SU)	10.00	9.98	20.29	± 0.1	GWMP
ORP (mV)	228.0	220.2	20.42	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.03		
	10.00	9.99		

Calibration Check					
Time Start	16:34	Time Finish	16:41		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4408.9	25.21	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	25.13	± 0.1	GWMP
pH (SU)	7.00	7.16	25.16	± 0.1	GWMP
pH (SU)	10.00	10.13	25.54	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.07		
	10.00	9.82		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 11/13/24

Calibrated By: Jay Siewert

Field Conditions: 79°/61°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	0814	**Time Finish**	0826		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	97.37	18.70	± 10%	NA
Specific Conductance (µS/cm)	4,490	4530.9	18.83	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	18.95	± 0.1	GWMP
pH (SU)	7.00	7.01	19.30	± 0.1	GWMP
pH (SU)	10.00	10.03	19.60	± 0.1	GWMP
ORP (mV)	228.0	227.9	19.63	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	1.04		
	10.00	9.68		

Calibration Check					
Time Start	1103	**Time Finish**	1112		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4482.8	22.20	± 10% of standard	EPA 2023
pH (SU)	4.00	4.12	22.14	± 0.1	GWMP
pH (SU)	7.00	7.14	22.71	± 0.1	GWMP
pH (SU)	10.00	10.21	23.01	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	9.71		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 11/13/24

Calibrated By: William Lauer

Field Conditions: 79°/61° partly cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080297
Turbidity Meter	LaMotte 2020	2068-0320

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24011792	06/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	8:14	Time Finish	8:24		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	106.23	18.38	± 10%	NA
Specific Conductance (µS/cm)	4,490	4428.1	18.69	± 10% of standard	EPA 2023
pH (SU)	4.00	3.96	18.80	± 0.1	GWMP
pH (SU)	7.00	7.00	19.34	± 0.1	GWMP
pH (SU)	10.00	9.96	19.53	± 0.1	GWMP
ORP (mV)	228.0	230.9	19.52	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	9.75		

Calibration Check					
Time Start	11:03	Time Finish	11:12		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4494.8	20.77	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	20.73	± 0.1	GWMP
pH (SU)	7.00	7.18	20.84	± 0.1	GWMP
pH (SU)	10.00	10.23	21.22	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	9.93		

Notes:

Low-Flow Test Report:

Test Date / Time: 8/28/2024 11:06:19 AM
Project: Plant McManus Week 1 Performance
Operator Name: Kevin Stephenson

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.58 ft** **Total Depth: 30.58 ft** **Initial Depth to Water: 5.93 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.08 ft** **Estimated Total Volume Pumped: 8400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.08 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 2 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
8/28/2024 11:06 AM	00:00	7.09 pH	26.82 °C	13,560 µS/cm	0.09 mg/L	2.75 NTU	-325.1 mV	5.97 ft	8.74 PSU	240.00 ml/min
8/28/2024 11:11 AM	05:00	6.69 pH	25.33 °C	13,773 µS/cm	0.07 mg/L	0.93 NTU	-338.4 mV	5.98 ft	8.91 PSU	240.00 ml/min
8/28/2024 11:16 AM	10:00	6.73 pH	25.20 °C	13,563 µS/cm	0.06 mg/L	0.84 NTU	-345.6 mV	5.98 ft	8.76 PSU	240.00 ml/min
8/28/2024 11:21 AM	15:00	6.76 pH	25.07 °C	13,341 µS/cm	0.06 mg/L	0.54 NTU	-350.2 mV	5.98 ft	8.61 PSU	240.00 ml/min
8/28/2024 11:26 AM	20:00	6.84 pH	25.05 °C	13,022 µS/cm	0.05 mg/L	0.55 NTU	-352.1 mV	5.99 ft	8.38 PSU	240.00 ml/min
8/28/2024 11:31 AM	25:00	6.84 pH	24.90 °C	12,894 µS/cm	0.05 mg/L	0.45 NTU	-355.2 mV	5.99 ft	8.30 PSU	240.00 ml/min
8/28/2024 11:36 AM	30:00	6.85 pH	24.96 °C	12,905 µS/cm	0.05 mg/L	0.47 NTU	-356.6 mV	6.00 ft	8.30 PSU	240.00 ml/min
8/28/2024 11:41 AM	35:00	6.86 pH	25.12 °C	12,782 µS/cm	0.04 mg/L	0.50 NTU	-355.9 mV	6.01 ft	8.22 PSU	240.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss Metals, Inorganics, TDS, Alkalinity, Sulfide, Deuterium, Speciation

Low-Flow Test Report:

Test Date / Time: 8/27/2024 4:02:24 PM
Project: Plant McManus Week 1 Performance
Operator Name: Kevin Stephenson

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.03 ft** **Total Depth: 30.03 ft** **Initial Depth to Water: 4.02 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.53 ft** **Estimated Total Volume Pumped: 6500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: -0.23 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 2 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
8/27/2024 4:02 PM	00:00	7.71 pH	25.92 °C	9,638.5 µS/cm	0.04 mg/L	12.40 NTU	-355.1 mV	3.91 ft	6.05 PSU	260.00 ml/min
8/27/2024 4:07 PM	05:00	7.25 pH	25.38 °C	9,512.1 µS/cm	0.04 mg/L	9.21 NTU	-358.7 mV	3.88 ft	5.97 PSU	260.00 ml/min
8/27/2024 4:12 PM	10:00	7.28 pH	25.55 °C	9,315.4 µS/cm	0.02 mg/L	7.69 NTU	-365.1 mV	3.86 ft	5.84 PSU	260.00 ml/min
8/27/2024 4:17 PM	15:00	7.29 pH	25.52 °C	9,236.9 µS/cm	0.03 mg/L	7.86 NTU	-367.7 mV	3.83 ft	5.78 PSU	260.00 ml/min
8/27/2024 4:22 PM	20:00	7.31 pH	25.46 °C	9,166.0 µS/cm	0.03 mg/L	3.43 NTU	-368.7 mV	3.81 ft	5.74 PSU	260.00 ml/min
8/27/2024 4:27 PM	25:00	7.33 pH	25.32 °C	9,125.2 µS/cm	0.03 mg/L	3.19 NTU	-369.5 mV	3.79 ft	5.71 PSU	260.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss Metals, Inorganics, TDS, Alkalinity, Sulfide, Deuterium, Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/27/2024 9:52:05 AM
Project: Plant McManus Week 1 Performance
Operator Name: Kevin Stephenson

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 5.94 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.07 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 2 liters. Hanging turbidity with black suspended precipitant.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
8/27/2024 9:52 AM	00:00	6.22 pH	26.79 °C	6,854.6 µS/cm	0.07 mg/L	16.40 NTU	-142.9 mV	6.01 ft	4.19 PSU	200.00 ml/min
8/27/2024 9:57 AM	05:00	6.24 pH	26.66 °C	6,855.0 µS/cm	0.05 mg/L	15.20 NTU	-148.7 mV	6.01 ft	4.19 PSU	200.00 ml/min
8/27/2024 10:02 AM	10:00	6.26 pH	26.43 °C	6,884.7 µS/cm	0.05 mg/L	12.60 NTU	-143.2 mV	6.01 ft	4.21 PSU	200.00 ml/min
8/27/2024 10:07 AM	15:00	6.27 pH	26.27 °C	6,868.5 µS/cm	0.04 mg/L	18.20 NTU	-144.4 mV	6.01 ft	4.20 PSU	200.00 ml/min
8/27/2024 10:12 AM	20:00	6.29 pH	26.91 °C	6,918.9 µS/cm	0.04 mg/L	11.72 NTU	-145.9 mV	6.01 ft	4.23 PSU	200.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Inorganics, TDS, Alkalinity, Sulfide, Deuterium, Speciation
FD-01	Metals, Diss. Metals, Inorganics, TDS, Alkalinity, Sulfide, Deuterium, Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/27/2024 11:46:18 AM
Project: Plant McManus Week 1 Performance
Operator Name: Kevin Stephenson

Location Name: INW-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 5.76 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 3600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 180 ml/min** **Final Draw Down: 0.54 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 2 liters. Orange purge water.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
8/27/2024 11:46 AM	00:00	5.82 pH	29.56 °C	10,026 µS/cm	0.19 mg/L	24.20 NTU	-59.6 mV	5.76 ft	6.28 PSU	180.00 ml/min
8/27/2024 11:51 AM	05:00	5.83 pH	28.41 °C	9,992.2 µS/cm	0.13 mg/L	23.40 NTU	-65.8 mV	6.19 ft	6.26 PSU	180.00 ml/min
8/27/2024 11:56 AM	10:00	5.85 pH	27.83 °C	10,026 µS/cm	0.07 mg/L	24.60 NTU	-72.2 mV	6.25 ft	6.29 PSU	180.00 ml/min
8/27/2024 12:01 PM	15:00	5.85 pH	27.75 °C	10,088 µS/cm	0.06 mg/L	23.50 NTU	-75.0 mV	6.30 ft	6.34 PSU	180.00 ml/min
8/27/2024 12:06 PM	20:00	5.85 pH	28.17 °C	10,066 µS/cm	0.05 mg/L	22.30 NTU	-77.3 mV	6.30 ft	6.32 PSU	180.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss. Metals, Inorganics, TDS, Alkalinity, Sulfide, Deuterium, Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/28/2024 3:06:34 PM
Project: Plant McManus Week 1 Performance
Operator Name: Kevin Stephenson

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 7.93 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 5200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: -0.19 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 2 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
8/28/2024 3:06 PM	00:00	7.07 pH	25.20 °C	10,693 µS/cm	0.03 mg/L	1.44 NTU	-356.4 mV	7.95 ft	6.77 PSU	260.00 ml/min
8/28/2024 3:11 PM	05:00	7.08 pH	24.85 °C	10,555 µS/cm	0.02 mg/L	0.84 NTU	-370.5 mV	7.84 ft	6.68 PSU	260.00 ml/min
8/28/2024 3:16 PM	10:00	7.10 pH	24.75 °C	10,431 µS/cm	0.02 mg/L	0.71 NTU	-374.6 mV	7.82 ft	6.60 PSU	260.00 ml/min
8/28/2024 3:21 PM	15:00	7.12 pH	24.67 °C	10,296 µS/cm	0.01 mg/L	0.81 NTU	-375.3 mV	7.78 ft	6.51 PSU	260.00 ml/min
8/28/2024 3:26 PM	20:00	7.12 pH	24.69 °C	10,187 µS/cm	0.01 mg/L	0.96 NTU	-373.7 mV	7.74 ft	6.43 PSU	260.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss Metals, Inorganics, TDS, Alkalinity, Sulfide, Deuterium, Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/28/2024 1:46:26 PM
Project: Plant McManus Week 1 Performance
Operator Name: Kevin Stephenson

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 5.98 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 4800 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 2 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
8/28/2024 1:46 PM	00:00	6.76 pH	26.78 °C	14,758 µS/cm	0.09 mg/L	2.11 NTU	-324.1 mV	6.02 ft	9.58 PSU	240.00 ml/min
8/28/2024 1:51 PM	05:00	6.71 pH	26.79 °C	14,689 µS/cm	0.08 mg/L	1.07 NTU	-334.0 mV	5.99 ft	9.53 PSU	240.00 ml/min
8/28/2024 1:56 PM	10:00	6.72 pH	26.51 °C	14,457 µS/cm	0.07 mg/L	1.30 NTU	-337.1 mV	5.97 ft	9.37 PSU	240.00 ml/min
8/28/2024 2:01 PM	15:00	6.74 pH	26.33 °C	14,183 µS/cm	0.06 mg/L	1.68 NTU	-339.2 mV	5.97 ft	9.18 PSU	240.00 ml/min
8/28/2024 2:06 PM	20:00	6.74 pH	26.19 °C	14,103 µS/cm	0.05 mg/L	1.10 NTU	-339.6 mV	5.98 ft	9.13 PSU	240.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss Metals, Inorganics, TDS, Alkalinity, Sulfide, Deuterium, Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/28/2024 9:38:37 AM
Project: Plant McManus Week 1 Performance
Operator Name: Kevin Stephenson

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 5.7 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 7800 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: 0.31 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 2 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
8/28/2024 9:38 AM	00:00	6.71 pH	24.91 °C	13,021 µS/cm	0.07 mg/L	0.35 NTU	-247.8 mV	5.91 ft	8.39 PSU	260.00 ml/min
8/28/2024 9:43 AM	05:00	6.65 pH	24.78 °C	12,938 µS/cm	0.05 mg/L	0.28 NTU	-271.8 mV	5.93 ft	8.33 PSU	260.00 ml/min
8/28/2024 9:48 AM	10:00	6.53 pH	24.72 °C	12,839 µS/cm	0.06 mg/L	0.36 NTU	-312.2 mV	5.95 ft	8.26 PSU	260.00 ml/min
8/28/2024 9:53 AM	15:00	6.53 pH	24.62 °C	12,674 µS/cm	0.05 mg/L	0.26 NTU	-332.8 mV	5.97 ft	8.15 PSU	260.00 ml/min
8/28/2024 9:58 AM	20:00	6.55 pH	24.65 °C	12,499 µS/cm	0.04 mg/L	0.91 NTU	-348.8 mV	5.99 ft	8.02 PSU	260.00 ml/min
8/28/2024 10:03 AM	25:00	6.53 pH	24.66 °C	12,593 µS/cm	0.04 mg/L	1.13 NTU	-357.4 mV	6.00 ft	8.09 PSU	260.00 ml/min
8/28/2024 10:08 AM	30:00	6.53 pH	24.63 °C	12,687 µS/cm	0.03 mg/L	0.37 NTU	-366.4 mV	6.01 ft	8.16 PSU	260.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss Metals, Inorganics, TDS, Alkalinity, Sulfide, Deuterium, Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/27/2024 2:36:41 PM
Project: Plant McManus Week 1 Performance
Operator Name: Kevin Stephenson

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.36 ft** **Total Depth: 25.36 ft** **Initial Depth to Water: 4.68 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.36 ft** **Estimated Total Volume Pumped: 7200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: -0.36 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 2 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
8/27/2024 2:36 PM	00:00	6.65 pH	26.45 °C	13,451 µS/cm	0.04 mg/L	8.86 NTU	-237.5 mV	4.68 ft	8.67 PSU	240.00 ml/min
8/27/2024 2:41 PM	05:00	6.53 pH	26.33 °C	13,151 µS/cm	0.03 mg/L	9.73 NTU	-248.9 mV	4.56 ft	8.46 PSU	240.00 ml/min
8/27/2024 2:46 PM	10:00	6.47 pH	26.33 °C	12,793 µS/cm	0.03 mg/L	7.22 NTU	-259.2 mV	4.50 ft	8.21 PSU	240.00 ml/min
8/27/2024 2:51 PM	15:00	6.43 pH	26.46 °C	12,558 µS/cm	0.02 mg/L	5.08 NTU	-269.5 mV	4.45 ft	8.04 PSU	240.00 ml/min
8/27/2024 2:56 PM	20:00	6.41 pH	26.41 °C	12,245 µS/cm	0.01 mg/L	4.70 NTU	-287.5 mV	4.41 ft	7.83 PSU	240.00 ml/min
8/27/2024 3:01 PM	25:00	6.40 pH	26.36 °C	12,147 µS/cm	0.00 mg/L	3.95 NTU	-317.1 mV	4.38 ft	7.76 PSU	240.00 ml/min
8/27/2024 3:06 PM	30:00	6.39 pH	26.51 °C	12,049 µS/cm	0.00 mg/L	4.36 NTU	-347.4 mV	4.32 ft	7.69 PSU	240.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss Metals, Inorganics, TDS, Alkalinity, Sulfide, Deuterium, Speciation

Low-Flow Test Report:

Test Date / Time: 9/5/2024 11:04:36 AM
Project: Plant McManus Week 2 Performance
Operator Name: Natalie Piparo

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.32 ft** **Total Depth: 30.32 ft** **Initial Depth to Water: 4.14 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.82 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.41 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
9/5/2024 11:04 AM	00:00	6.78 pH	24.61 °C	12,496 µS/cm	0.31 mg/L	0.43 NTU	-317.3 mV	3.87 ft	7.26 PSU	200.00 ml/min
9/5/2024 11:09 AM	05:00	6.74 pH	24.71 °C	12,386 µS/cm	0.11 mg/L	0.90 NTU	-327.4 mV	3.83 ft	7.20 PSU	200.00 ml/min
9/5/2024 11:14 AM	10:00	6.77 pH	24.62 °C	12,276 µS/cm	0.10 mg/L	0.22 NTU	-331.5 mV	3.81 ft	7.13 PSU	200.00 ml/min
9/5/2024 11:19 AM	15:00	6.78 pH	24.67 °C	12,186 µS/cm	0.10 mg/L	0.33 NTU	-331.8 mV	3.71 ft	7.07 PSU	200.00 ml/min
9/5/2024 11:24 AM	20:00	6.79 pH	24.72 °C	12,140 µS/cm	0.10 mg/L	0.21 NTU	-330.9 mV	3.76 ft	7.04 PSU	200.00 ml/min
9/5/2024 11:29 AM	25:00	6.80 pH	24.69 °C	12,027 µS/cm	0.08 mg/L	0.15 NTU	-332.6 mV	3.73 ft	6.97 PSU	200.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/5/2024 3:18:45 PM
Project: Plant McManus Week 2 Performance
Operator Name: Kevin Stephenson

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.03 ft** **Total Depth: 30.03 ft** **Initial Depth to Water: 4.59 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.53 ft** **Estimated Total Volume Pumped: 7200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 2 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
9/5/2024 3:18 PM	00:00	7.46 pH	25.94 °C	9,617.9 µS/cm	0.50 mg/L	10.23 NTU	-306.5 mV	4.70 ft	5.48 PSU	240.00 ml/min
9/5/2024 3:23 PM	05:00	7.41 pH	25.08 °C	9,508.0 µS/cm	0.06 mg/L	8.02 NTU	-346.5 mV	4.73 ft	5.41 PSU	240.00 ml/min
9/5/2024 3:28 PM	10:00	7.28 pH	24.92 °C	9,538.1 µS/cm	0.06 mg/L	3.56 NTU	-364.7 mV	4.76 ft	5.43 PSU	240.00 ml/min
9/5/2024 3:33 PM	15:00	7.29 pH	24.78 °C	9,501.4 µS/cm	0.06 mg/L	3.28 NTU	-364.5 mV	4.79 ft	5.41 PSU	240.00 ml/min
9/5/2024 3:38 PM	20:00	7.30 pH	24.78 °C	9,413.5 µS/cm	0.04 mg/L	4.00 NTU	-366.1 mV	4.84 ft	5.35 PSU	240.00 ml/min
9/5/2024 3:43 PM	25:00	7.34 pH	24.78 °C	9,287.5 µS/cm	0.03 mg/L	3.47 NTU	-369.3 mV	4.87 ft	5.28 PSU	240.00 ml/min
9/5/2024 3:48 PM	30:00	7.31 pH	24.68 °C	9,364.8 µS/cm	0.03 mg/L	2.02 NTU	-366.9 mV	4.89 ft	5.32 PSU	240.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/5/2024 11:02:15 AM
Project: Plant McManus Week 2 Performance
Operator Name: Kevin Stephenson

Location Name: INW-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 4.08 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 8800 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 2 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
9/5/2024 11:02 AM	00:00	6.10 pH	24.96 °C	3,353.4 µS/cm	0.12 mg/L	7.90 NTU	-69.1 mV	3.97 ft	1.78 PSU	220.00 ml/min
9/5/2024 11:07 AM	05:00	6.27 pH	25.03 °C	1,345.2 µS/cm	0.06 mg/L	8.85 NTU	-85.3 mV	4.08 ft	0.68 PSU	220.00 ml/min
9/5/2024 11:12 AM	10:00	6.07 pH	25.05 °C	10,857 µS/cm	0.05 mg/L	5.75 NTU	-77.6 mV	4.16 ft	6.24 PSU	220.00 ml/min
9/5/2024 11:17 AM	15:00	6.15 pH	25.01 °C	16,378 µS/cm	0.15 mg/L	4.01 NTU	-70.5 mV	4.15 ft	9.74 PSU	220.00 ml/min
9/5/2024 11:22 AM	20:00	6.18 pH	25.02 °C	16,843 µS/cm	0.40 mg/L	2.29 NTU	-66.0 mV	4.14 ft	10.04 PSU	220.00 ml/min
9/5/2024 11:27 AM	25:00	6.22 pH	25.05 °C	16,970 µS/cm	0.78 mg/L	2.09 NTU	-67.9 mV	4.12 ft	10.12 PSU	220.00 ml/min
9/5/2024 11:32 AM	30:00	6.23 pH	25.11 °C	17,042 µS/cm	0.48 mg/L	2.21 NTU	-66.7 mV	4.11 ft	10.17 PSU	220.00 ml/min
9/5/2024 11:37 AM	35:00	6.23 pH	25.18 °C	17,032 µS/cm	0.51 mg/L	1.90 NTU	-66.3 mV	4.11 ft	10.16 PSU	220.00 ml/min
9/5/2024 11:42 AM	40:00	6.24 pH	25.15 °C	17,042 µS/cm	0.47 mg/L	2.18 NTU	-65.2 mV	4.09 ft	10.17 PSU	220.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/5/2024 3:13:05 PM
Project: Plant McManus 2 Week Performance
Operator Name: Natalie Piparo

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 6.99 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.63 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 3.5L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/5/2024 3:13 PM	00:00	7.25 pH	26.24 °C	8,850.7 µS/cm	2.30 mg/L	0.20 NTU	-317.4 mV	7.34 ft	5.01 PSU	200.00 ml/min
9/5/2024 3:18 PM	05:00	7.19 pH	24.55 °C	9,046.4 µS/cm	0.09 mg/L	0.15 NTU	-340.0 mV	7.46 ft	5.13 PSU	200.00 ml/min
9/5/2024 3:23 PM	10:00	7.19 pH	24.37 °C	9,022.7 µS/cm	0.07 mg/L	0.12 NTU	-354.1 mV	7.49 ft	5.11 PSU	200.00 ml/min
9/5/2024 3:28 PM	15:00	7.19 pH	24.41 °C	8,987.8 µS/cm	0.06 mg/L	0.25 NTU	-337.1 mV	7.53 ft	5.09 PSU	200.00 ml/min
9/5/2024 3:33 PM	20:00	7.20 pH	24.41 °C	8,960.1 µS/cm	0.06 mg/L	0.21 NTU	-352.3 mV	7.59 ft	5.08 PSU	200.00 ml/min
9/5/2024 3:38 PM	25:00	7.19 pH	24.32 °C	8,954.7 µS/cm	0.06 mg/L	0.15 NTU	-335.4 mV	7.62 ft	5.07 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/5/2024 8:59:41 AM
Project: Plant McManus Week 2 Performance
Operator Name: Natalie Piparo

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 4.92 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 4500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 180 ml/min** **Final Draw Down: -0.31 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/5/2024 8:59 AM	00:00	6.84 pH	24.42 °C	13,454 µS/cm	0.17 mg/L	1.47 NTU	-266.8 mV	4.86 ft	7.87 PSU	180.00 ml/min
9/5/2024 9:04 AM	05:00	6.74 pH	24.30 °C	13,299 µS/cm	0.12 mg/L	0.88 NTU	-301.6 mV	4.82 ft	7.77 PSU	180.00 ml/min
9/5/2024 9:09 AM	10:00	6.74 pH	24.23 °C	13,063 µS/cm	0.09 mg/L	0.97 NTU	-308.7 mV	4.77 ft	7.62 PSU	180.00 ml/min
9/5/2024 9:14 AM	15:00	6.76 pH	24.18 °C	12,770 µS/cm	0.09 mg/L	0.76 NTU	-312.5 mV	4.71 ft	7.44 PSU	180.00 ml/min
9/5/2024 9:19 AM	20:00	6.77 pH	24.16 °C	12,535 µS/cm	0.08 mg/L	0.94 NTU	-321.3 mV	4.66 ft	7.29 PSU	180.00 ml/min
9/5/2024 9:24 AM	25:00	6.80 pH	24.13 °C	12,220 µS/cm	0.07 mg/L	0.92 NTU	-316.3 mV	4.61 ft	7.09 PSU	180.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/5/2024 1:46:21 PM
Project: Plant McManus 2 Week Performance
Operator Name: Natalie Piparo

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 3.83 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.45 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/5/2024 1:46 PM	00:00	6.52 pH	25.40 °C	12,031 µS/cm	0.15 mg/L	1.39 NTU	-160.4 mV	3.94 ft	6.98 PSU	210.00 ml/min
9/5/2024 1:51 PM	05:00	6.51 pH	25.27 °C	11,983 µS/cm	0.09 mg/L	0.64 NTU	-171.4 mV	4.09 ft	6.94 PSU	210.00 ml/min
9/5/2024 1:56 PM	10:00	6.50 pH	25.13 °C	11,972 µS/cm	0.08 mg/L	0.88 NTU	-222.8 mV	4.12 ft	6.94 PSU	210.00 ml/min
9/5/2024 2:01 PM	15:00	6.50 pH	24.96 °C	11,920 µS/cm	0.07 mg/L	0.42 NTU	-178.7 mV	4.17 ft	6.90 PSU	210.00 ml/min
9/5/2024 2:06 PM	20:00	6.51 pH	24.68 °C	11,891 µS/cm	0.07 mg/L	0.76 NTU	-238.6 mV	4.22 ft	6.89 PSU	210.00 ml/min
9/5/2024 2:11 PM	25:00	6.53 pH	24.69 °C	11,825 µS/cm	0.05 mg/L	0.36 NTU	-198.5 mV	4.28 ft	6.84 PSU	210.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/5/2024 1:42:17 PM
Project: Plant McManus Week 2 Performance
Operator Name: Kevin Stephenson

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.36 ft** **Total Depth: 25.36 ft** **Initial Depth to Water: 3.64 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.36 ft** **Estimated Total Volume Pumped: 7000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.48 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes:
Pre-purged 1.5 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 0.2	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
9/5/2024 1:42 PM	00:00	6.59 pH	25.96 °C	15,161 µS/cm	3.40 mg/L	28.60 NTU	-122.1 mV	3.80 ft	8.96 PSU	200.00 ml/min
9/5/2024 1:47 PM	05:00	6.64 pH	25.75 °C	15,236 µS/cm	0.25 mg/L	19.50 NTU	-129.9 mV	3.86 ft	9.01 PSU	200.00 ml/min
9/5/2024 1:52 PM	10:00	6.61 pH	25.83 °C	15,180 µS/cm	0.45 mg/L	17.00 NTU	-139.4 mV	3.91 ft	8.97 PSU	200.00 ml/min
9/5/2024 1:57 PM	15:00	6.59 pH	25.59 °C	15,036 µS/cm	0.71 mg/L	12.00 NTU	-143.3 mV	3.91 ft	8.88 PSU	200.00 ml/min
9/5/2024 2:02 PM	20:00	6.55 pH	25.52 °C	14,773 µS/cm	0.51 mg/L	9.99 NTU	-132.3 mV	4.01 ft	8.71 PSU	200.00 ml/min
9/5/2024 2:07 PM	25:00	6.59 pH	25.33 °C	14,653 µS/cm	0.15 mg/L	8.75 NTU	-163.8 mV	4.03 ft	8.63 PSU	200.00 ml/min
9/5/2024 2:12 PM	30:00	6.61 pH	25.40 °C	14,356 µS/cm	0.15 mg/L	7.38 NTU	-161.7 mV	4.07 ft	8.44 PSU	200.00 ml/min
9/5/2024 2:17 PM	35:00	6.65 pH	25.53 °C	14,048 µS/cm	0.12 mg/L	4.79 NTU	-193.4 mV	4.12 ft	8.25 PSU	200.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium
FD-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/12/2024 12:44:08 PM
Project: Plant McManus Week 3 Performance
Operator Name: Natalie Piparo

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.32 ft** **Total Depth: 30.32 ft** **Initial Depth to Water: 5.85 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.82 ft** **Estimated Total Volume Pumped: 6750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: -0.65 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 1L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
9/12/2024 12:44 PM	00:00	6.64 pH	25.51 °C	14,517 µS/cm	0.25 mg/L	2.31 NTU	-217.7 mV	5.42 ft	8.55 PSU	225.00 ml/min
9/12/2024 12:49 PM	05:00	6.67 pH	24.95 °C	14,358 µS/cm	0.09 mg/L	0.76 NTU	-229.3 mV	5.39 ft	8.44 PSU	225.00 ml/min
9/12/2024 12:54 PM	10:00	6.73 pH	24.80 °C	13,988 µS/cm	0.06 mg/L	0.70 NTU	-303.1 mV	5.35 ft	8.21 PSU	225.00 ml/min
9/12/2024 12:59 PM	15:00	6.78 pH	24.66 °C	13,683 µS/cm	0.05 mg/L	0.57 NTU	-310.5 mV	5.32 ft	8.01 PSU	225.00 ml/min
9/12/2024 1:04 PM	20:00	6.79 pH	24.59 °C	13,554 µS/cm	0.05 mg/L	0.84 NTU	-261.8 mV	5.29 ft	7.93 PSU	225.00 ml/min
9/12/2024 1:09 PM	25:00	6.87 pH	24.50 °C	13,171 µS/cm	0.04 mg/L	0.87 NTU	-322.2 mV	5.23 ft	7.69 PSU	225.00 ml/min
9/12/2024 1:14 PM	30:00	6.89 pH	24.41 °C	13,006 µS/cm	0.04 mg/L	0.42 NTU	-279.2 mV	5.20 ft	7.59 PSU	225.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/12/2024 2:37:00 PM
Project: Plant McManus Week 3 Performance
Operator Name: Jay Siewert

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.03 ft** **Total Depth: 30.03 ft** **Initial Depth to Water: 4.45 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.53 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.33 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/12/2024 2:37 PM	00:00	7.83 pH	24.34 °C	9,145.2 µS/cm	0.11 mg/L	2.82 NTU	-360.1 mV	4.31 ft	5.19 PSU	200.00 ml/min
9/12/2024 2:42 PM	05:00	7.39 pH	24.67 °C	9,058.7 µS/cm	0.07 mg/L	2.37 NTU	-361.9 mV	4.30 ft	5.14 PSU	200.00 ml/min
9/12/2024 2:47 PM	10:00	7.39 pH	24.64 °C	9,082.1 µS/cm	0.04 mg/L	2.28 NTU	-366.9 mV	4.25 ft	5.15 PSU	200.00 ml/min
9/12/2024 2:52 PM	15:00	7.39 pH	24.67 °C	9,037.6 µS/cm	0.03 mg/L	2.82 NTU	-366.5 mV	4.22 ft	5.12 PSU	200.00 ml/min
9/12/2024 2:57 PM	20:00	7.38 pH	24.70 °C	9,054.2 µS/cm	0.02 mg/L	2.47 NTU	-368.9 mV	4.18 ft	5.13 PSU	200.00 ml/min
9/12/2024 3:02 PM	25:00	7.38 pH	24.67 °C	9,080.6 µS/cm	0.02 mg/L	2.35 NTU	-369.6 mV	4.12 ft	5.15 PSU	200.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/12/2024 9:55:25 AM
Project: Plant McManus Week 3 Performance
Operator Name: Jay Siewert

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 5.72 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 9950 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.18 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 3.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/12/2024 9:55 AM	00:00	6.62 pH	24.94 °C	7,226.8 µS/cm	0.13 mg/L	15.90 NTU	-143.4 mV	5.83 ft	4.03 PSU	230.00 ml/min
9/12/2024 10:00 AM	05:00	6.65 pH	25.08 °C	7,247.9 µS/cm	0.08 mg/L	13.20 NTU	-153.3 mV	5.84 ft	4.04 PSU	230.00 ml/min
9/12/2024 10:05 AM	10:00	6.67 pH	25.14 °C	7,249.7 µS/cm	0.06 mg/L	11.20 NTU	-154.8 mV	5.85 ft	4.05 PSU	230.00 ml/min
9/12/2024 10:10 AM	15:00	6.68 pH	25.10 °C	7,251.5 µS/cm	0.05 mg/L	12.20 NTU	-156.4 mV	5.86 ft	4.05 PSU	230.00 ml/min
9/12/2024 10:15 AM	20:00	6.70 pH	25.06 °C	7,260.8 µS/cm	0.04 mg/L	12.50 NTU	-157.4 mV	5.87 ft	4.05 PSU	230.00 ml/min
9/12/2024 10:20 AM	25:00	6.71 pH	25.11 °C	7,242.8 µS/cm	0.03 mg/L	14.90 NTU	-159.1 mV	5.88 ft	4.04 PSU	230.00 ml/min
9/12/2024 10:25 AM	30:00	6.72 pH	25.15 °C	7,247.6 µS/cm	0.02 mg/L	11.75 NTU	-160.8 mV	5.89 ft	4.04 PSU	210.00 ml/min
9/12/2024 10:30 AM	35:00	6.72 pH	25.17 °C	7,261.8 µS/cm	0.02 mg/L	10.54 NTU	-161.0 mV	5.90 ft	4.05 PSU	200.00 ml/min
9/12/2024 10:35 AM	40:00	6.73 pH	25.25 °C	7,240.1 µS/cm	0.02 mg/L	8.94 NTU	-162.0 mV	5.90 ft	4.04 PSU	200.00 ml/min
9/12/2024 10:40 AM	45:00	6.73 pH	25.09 °C	7,259.5 µS/cm	0.02 mg/L	7.83 NTU	-163.2 mV	5.90 ft	4.05 PSU	200.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/12/2024 11:40:13 AM
Project: Plant McManus Week 3 Performance
Operator Name: Jay Siewert

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 5.59 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 3700 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 185 ml/min** **Final Draw Down: 0.42 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L. Orange purge water.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/12/2024 11:40 AM	00:00	6.31 pH	25.37 °C	17,442 µS/cm	0.21 mg/L	79.10 NTU	-81.9 mV	5.91 ft	10.43 PSU	185.00 ml/min
9/12/2024 11:45 AM	05:00	6.33 pH	25.76 °C	17,326 µS/cm	0.14 mg/L	74.20 NTU	-83.4 mV	5.98 ft	10.36 PSU	185.00 ml/min
9/12/2024 11:50 AM	10:00	6.34 pH	25.76 °C	17,320 µS/cm	0.10 mg/L	72.20 NTU	-86.5 mV	6.01 ft	10.35 PSU	185.00 ml/min
9/12/2024 11:55 AM	15:00	6.35 pH	25.78 °C	17,306 µS/cm	0.07 mg/L	67.30 NTU	-87.4 mV	6.01 ft	10.34 PSU	185.00 ml/min
9/12/2024 12:00 PM	20:00	6.36 pH	25.85 °C	17,284 µS/cm	0.06 mg/L	63.40 NTU	-88.3 mV	6.01 ft	10.33 PSU	185.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/12/2024 9:42:25 AM
Project: Plant McManus Week 3 Performance
Operator Name: Natalie Piparo

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 8.14 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 5750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.21 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/12/2024 9:42 AM	00:00	7.03 pH	24.20 °C	10,234 µS/cm	0.05 mg/L	0.38 NTU	-225.3 mV	8.31 ft	5.86 PSU	230.00 ml/min
9/12/2024 9:47 AM	05:00	7.14 pH	23.99 °C	10,410 µS/cm	0.03 mg/L	0.39 NTU	-320.6 mV	8.33 ft	5.96 PSU	230.00 ml/min
9/12/2024 9:52 AM	10:00	7.16 pH	23.92 °C	10,349 µS/cm	0.02 mg/L	0.32 NTU	-324.8 mV	8.33 ft	5.93 PSU	230.00 ml/min
9/12/2024 9:57 AM	15:00	7.18 pH	23.90 °C	10,253 µS/cm	0.02 mg/L	0.37 NTU	-327.0 mV	8.34 ft	5.87 PSU	230.00 ml/min
9/12/2024 10:02 AM	20:00	7.19 pH	23.87 °C	10,158 µS/cm	0.01 mg/L	0.45 NTU	-252.6 mV	8.35 ft	5.81 PSU	230.00 ml/min
9/12/2024 10:07 AM	25:00	7.20 pH	23.85 °C	10,135 µS/cm	0.01 mg/L	0.27 NTU	-254.5 mV	8.35 ft	5.80 PSU	230.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/12/2024 11:25:18 AM
Project: Plant McManus Week 3 Performance
Operator Name: Natalie Piparo

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 5.89 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5625 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: -0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 6L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/12/2024 11:25 AM	00:00	6.81 pH	25.87 °C	13,254 µS/cm	0.62 mg/L	1.50 NTU	-206.8 mV	5.85 ft	7.74 PSU	225.00 ml/min
9/12/2024 11:30 AM	05:00	6.82 pH	24.41 °C	13,492 µS/cm	0.07 mg/L	1.47 NTU	-285.3 mV	5.83 ft	7.89 PSU	225.00 ml/min
9/12/2024 11:35 AM	10:00	6.84 pH	24.27 °C	13,183 µS/cm	0.06 mg/L	1.16 NTU	-212.3 mV	5.82 ft	7.70 PSU	225.00 ml/min
9/12/2024 11:40 AM	15:00	6.87 pH	24.23 °C	12,963 µS/cm	0.05 mg/L	0.94 NTU	-289.2 mV	5.81 ft	7.56 PSU	225.00 ml/min
9/12/2024 11:45 AM	20:00	6.88 pH	24.20 °C	12,836 µS/cm	0.04 mg/L	0.65 NTU	-290.6 mV	5.80 ft	7.48 PSU	225.00 ml/min
9/12/2024 11:50 AM	25:00	6.87 pH	24.18 °C	12,904 µS/cm	0.04 mg/L	1.01 NTU	-291.3 mV	5.79 ft	7.52 PSU	225.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss Metals, Inorganics, Sulfide, Deuterium
FD-01	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/12/2024 1:56:18 PM
Project: Plant McManus Week 3 Performance
Operator Name: Natalie Piparo

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 4.96 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 8100 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 270 ml/min** **Final Draw Down: -0.25 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/12/2024 1:56 PM	00:00	6.78 pH	25.73 °C	12,497 µS/cm	1.20 mg/L	1.70 NTU	-284.3 mV	4.96 ft	7.27 PSU	270.00 ml/min
9/12/2024 2:01 PM	05:00	6.67 pH	24.43 °C	12,483 µS/cm	0.05 mg/L	0.67 NTU	-357.2 mV	4.90 ft	7.26 PSU	270.00 ml/min
9/12/2024 2:06 PM	10:00	6.71 pH	24.30 °C	12,200 µS/cm	0.04 mg/L	0.53 NTU	-368.1 mV	4.87 ft	7.08 PSU	270.00 ml/min
9/12/2024 2:11 PM	15:00	6.78 pH	24.23 °C	11,821 µS/cm	0.03 mg/L	0.35 NTU	-404.1 mV	4.84 ft	6.84 PSU	270.00 ml/min
9/12/2024 2:16 PM	20:00	6.79 pH	24.19 °C	11,795 µS/cm	0.03 mg/L	0.30 NTU	-394.6 mV	4.79 ft	6.82 PSU	270.00 ml/min
9/12/2024 2:21 PM	25:00	6.82 pH	24.15 °C	11,530 µS/cm	0.02 mg/L	0.51 NTU	-400.7 mV	4.75 ft	6.66 PSU	270.00 ml/min
9/12/2024 2:26 PM	30:00	6.82 pH	24.14 °C	11,635 µS/cm	0.02 mg/L	0.29 NTU	-401.5 mV	4.71 ft	6.72 PSU	270.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/12/2024 1:09:04 PM
Project: Plant McManus Week 3 Performance
Operator Name: Jay Siewert

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.36 ft** **Total Depth: 25.36 ft** **Initial Depth to Water: 5.24 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.36 ft** **Estimated Total Volume Pumped: 6450 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 215 ml/min** **Final Draw Down: -0.44 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 4 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/12/2024 1:09 PM	00:00	6.98 pH	25.12 °C	9,935.5 µS/cm	0.03 mg/L	6.45 NTU	-288.2 mV	5.09 ft	5.67 PSU	215.00 ml/min
9/12/2024 1:14 PM	05:00	6.91 pH	25.53 °C	9,621.9 µS/cm	0.01 mg/L	6.20 NTU	-306.3 mV	5.05 ft	5.48 PSU	215.00 ml/min
9/12/2024 1:19 PM	10:00	6.86 pH	25.42 °C	9,507.7 µS/cm	0.00 mg/L	6.43 NTU	-317.2 mV	5.05 ft	5.41 PSU	215.00 ml/min
9/12/2024 1:24 PM	15:00	6.83 pH	25.40 °C	9,345.8 µS/cm	-0.01 mg/L	6.53 NTU	-329.3 mV	4.97 ft	5.31 PSU	215.00 ml/min
9/12/2024 1:29 PM	20:00	6.80 pH	25.39 °C	9,358.0 µS/cm	-0.01 mg/L	6.19 NTU	-339.6 mV	4.92 ft	5.32 PSU	215.00 ml/min
9/12/2024 1:34 PM	25:00	6.79 pH	25.27 °C	9,320.1 µS/cm	-0.01 mg/L	6.30 NTU	-347.2 mV	4.88 ft	5.30 PSU	215.00 ml/min
9/12/2024 1:39 PM	30:00	6.78 pH	25.21 °C	9,325.4 µS/cm	-0.02 mg/L	6.25 NTU	-352.7 mV	4.80 ft	5.30 PSU	215.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 9/18/2024 10:37:25 AM
Project: Plant McManus 4 Week Performance
Operator Name: Natalie Piparo

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.86 ft** **Total Depth: 30.86 ft** **Initial Depth to Water: 3.19 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.36 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 1L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/18/2024 10:37 AM	00:00	6.95 pH	25.93 °C	14,005 µS/cm	0.29 mg/L	1.63 NTU	-315.3 mV	3.22 ft	8.22 PSU	240.00 ml/min
9/18/2024 10:42 AM	05:00	6.76 pH	24.76 °C	14,040 µS/cm	0.08 mg/L	0.84 NTU	-328.4 mV	3.18 ft	8.24 PSU	240.00 ml/min
9/18/2024 10:47 AM	10:00	6.77 pH	24.73 °C	13,937 µS/cm	0.04 mg/L	0.34 NTU	-342.9 mV	3.19 ft	8.17 PSU	240.00 ml/min
9/18/2024 10:52 AM	15:00	6.79 pH	24.66 °C	13,835 µS/cm	0.03 mg/L	0.36 NTU	-334.8 mV	3.18 ft	8.11 PSU	240.00 ml/min
9/18/2024 10:57 AM	20:00	6.78 pH	24.85 °C	13,847 µS/cm	0.02 mg/L	0.33 NTU	-332.4 mV	3.18 ft	8.12 PSU	240.00 ml/min
9/18/2024 11:02 AM	25:00	6.79 pH	24.82 °C	13,810 µS/cm	0.02 mg/L	0.37 NTU	-339.1 mV	3.19 ft	8.09 PSU	240.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

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Low-Flow Test Report:

Test Date / Time: 9/18/2024 9:28:46 AM
Project: Plant McManus 4 Week Performance
Operator Name: Natalie Piparo

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.44 ft** **Total Depth: 30.44 ft** **Initial Depth to Water: 3.55 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.94 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: -0.31 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/18/2024 9:28 AM	00:00	7.32 pH	24.69 °C	9,772.1 µS/cm	0.18 mg/L	8.45 NTU	-326.0 mV	3.43 ft	5.57 PSU	240.00 ml/min
9/18/2024 9:33 AM	05:00	7.28 pH	24.39 °C	9,672.7 µS/cm	0.08 mg/L	5.65 NTU	-345.7 mV	3.37 ft	5.51 PSU	240.00 ml/min
9/18/2024 9:38 AM	10:00	7.28 pH	24.39 °C	9,708.7 µS/cm	0.06 mg/L	5.60 NTU	-347.3 mV	3.34 ft	5.53 PSU	240.00 ml/min
9/18/2024 9:43 AM	15:00	7.30 pH	24.32 °C	9,646.8 µS/cm	0.05 mg/L	4.54 NTU	-348.6 mV	3.31 ft	5.50 PSU	240.00 ml/min
9/18/2024 9:48 AM	20:00	7.31 pH	24.23 °C	9,627.4 µS/cm	0.04 mg/L	3.88 NTU	-357.6 mV	3.26 ft	5.48 PSU	240.00 ml/min
9/18/2024 9:53 AM	25:00	7.33 pH	24.19 °C	9,559.5 µS/cm	0.03 mg/L	3.55 NTU	-350.0 mV	3.24 ft	5.44 PSU	240.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/17/2024 9:29:58 AM
Project: Plant McManus 4 Week Performance
Operator Name: Natalie Piparo

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 3.5 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 9000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: -0.08 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 3L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/17/2024 9:29 AM	00:00	6.51 pH	23.79 °C	7,078.5 µS/cm	0.06 mg/L	13.30 NTU	-156.1 mV	3.46 ft	3.94 PSU	225.00 ml/min
9/17/2024 9:34 AM	05:00	6.66 pH	23.78 °C	7,046.4 µS/cm	0.04 mg/L	10.04 NTU	-168.4 mV	3.43 ft	3.92 PSU	225.00 ml/min
9/17/2024 9:39 AM	10:00	6.71 pH	23.83 °C	7,048.6 µS/cm	0.02 mg/L	7.58 NTU	-156.6 mV	3.43 ft	3.92 PSU	225.00 ml/min
9/17/2024 9:44 AM	15:00	6.74 pH	23.88 °C	7,072.9 µS/cm	0.01 mg/L	8.73 NTU	-171.0 mV	3.41 ft	3.94 PSU	225.00 ml/min
9/17/2024 9:49 AM	20:00	6.76 pH	23.95 °C	7,080.6 µS/cm	0.01 mg/L	5.32 NTU	-161.7 mV	3.41 ft	3.94 PSU	225.00 ml/min
9/17/2024 9:54 AM	25:00	6.78 pH	23.99 °C	7,087.9 µS/cm	0.00 mg/L	5.16 NTU	-176.6 mV	3.41 ft	3.95 PSU	225.00 ml/min
9/17/2024 9:59 AM	30:00	6.78 pH	24.04 °C	7,098.3 µS/cm	0.00 mg/L	4.84 NTU	-167.1 mV	3.42 ft	3.95 PSU	225.00 ml/min
9/17/2024 10:04 AM	35:00	6.80 pH	24.05 °C	7,103.2 µS/cm	0.00 mg/L	4.20 NTU	-183.5 mV	3.42 ft	3.96 PSU	225.00 ml/min
9/17/2024 10:09 AM	40:00	6.81 pH	24.13 °C	7,107.6 µS/cm	0.00 mg/L	4.66 NTU	-174.9 mV	3.42 ft	3.96 PSU	225.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 9/17/2024 11:45:23 AM
Project: Plant McManus 4 Week Performance
Operator Name: Natalie Piparo

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 3.72 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 4950 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 180 ml/min** **Final Draw Down: 0.99 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 4L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/17/2024 11:45 AM	00:00	6.15 pH	33.96 °C	15,341 µS/cm	1.68 mg/L	39.80 NTU	-77.2 mV	4.51 ft	9.07 PSU	210.00 ml/min
9/17/2024 11:50 AM	05:00	6.41 pH	27.83 °C	16,861 µS/cm	0.05 mg/L	40.10 NTU	-93.6 mV	4.56 ft	10.06 PSU	210.00 ml/min
9/17/2024 11:55 AM	10:00	6.45 pH	27.83 °C	16,885 µS/cm	0.04 mg/L	41.10 NTU	-100.5 mV	4.60 ft	10.07 PSU	210.00 ml/min
9/17/2024 12:00 PM	15:00	6.46 pH	27.70 °C	16,904 µS/cm	0.03 mg/L	52.70 NTU	-94.7 mV	4.66 ft	10.09 PSU	180.00 ml/min
9/17/2024 12:05 PM	20:00	6.46 pH	28.02 °C	16,926 µS/cm	0.03 mg/L	42.00 NTU	-99.8 mV	4.60 ft	10.10 PSU	180.00 ml/min
9/17/2024 12:10 PM	25:00	6.46 pH	28.03 °C	16,923 µS/cm	0.02 mg/L	40.50 NTU	-93.9 mV	4.71 ft	10.10 PSU	180.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/17/2024 11:21:00 AM
Project: Plant McManus Week 4 Performance
Operator Name: Jay Siewert

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 6.27 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 5375 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 215 ml/min** **Final Draw Down: 0.59 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/17/2024 11:21 AM	00:00	7.73 pH	25.50 °C	10,870 µS/cm	0.04 mg/L	0.53 NTU	-365.1 mV	6.59 ft	6.25 PSU	215.00 ml/min
9/17/2024 11:26 AM	05:00	7.18 pH	25.81 °C	10,737 µS/cm	0.01 mg/L	0.19 NTU	-372.7 mV	6.63 ft	6.17 PSU	215.00 ml/min
9/17/2024 11:31 AM	10:00	7.18 pH	25.72 °C	10,693 µS/cm	0.00 mg/L	0.16 NTU	-375.1 mV	6.68 ft	6.14 PSU	215.00 ml/min
9/17/2024 11:36 AM	15:00	7.19 pH	25.60 °C	10,615 µS/cm	-0.01 mg/L	0.30 NTU	-377.1 mV	6.75 ft	6.09 PSU	215.00 ml/min
9/17/2024 11:41 AM	20:00	7.19 pH	25.47 °C	10,552 µS/cm	-0.01 mg/L	0.24 NTU	-379.0 mV	6.80 ft	6.06 PSU	215.00 ml/min
9/17/2024 11:46 AM	25:00	7.19 pH	25.61 °C	10,489 µS/cm	-0.02 mg/L	0.09 NTU	-376.8 mV	6.86 ft	6.02 PSU	215.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/17/2024 9:29:05 AM
Project: Plant McManus Week 4 Performance
Operator Name: Jay Siewert

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 24.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 3.32 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/17/2024 9:29 AM	00:00	6.99 pH	24.08 °C	14,803 µS/cm	0.17 mg/L	1.82 NTU	-325.2 mV	3.37 ft	8.72 PSU	210.00 ml/min
9/17/2024 9:34 AM	05:00	6.74 pH	24.28 °C	14,446 µS/cm	0.10 mg/L	1.00 NTU	-328.8 mV	3.37 ft	8.50 PSU	210.00 ml/min
9/17/2024 9:39 AM	10:00	6.76 pH	24.28 °C	14,212 µS/cm	0.07 mg/L	1.11 NTU	-334.0 mV	3.37 ft	8.35 PSU	210.00 ml/min
9/17/2024 9:44 AM	15:00	6.78 pH	24.18 °C	14,103 µS/cm	0.04 mg/L	1.10 NTU	-336.4 mV	3.35 ft	8.28 PSU	210.00 ml/min
9/17/2024 9:49 AM	20:00	6.80 pH	24.28 °C	13,967 µS/cm	0.03 mg/L	1.21 NTU	-338.3 mV	3.35 ft	8.19 PSU	210.00 ml/min
9/17/2024 9:54 AM	25:00	6.80 pH	24.31 °C	13,974 µS/cm	0.02 mg/L	0.70 NTU	-339.1 mV	3.35 ft	8.20 PSU	210.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/17/2024 3:02:38 PM
Project: Plant McManus Week 4 Performance
Operator Name: Jay Siewert

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 5.69 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.23 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
9/17/2024 3:02 PM	00:00	6.53 pH	26.66 °C	13,440 µS/cm	0.13 mg/L	0.58 NTU	-157.1 mV	5.84 ft	7.86 PSU	250.00 ml/min
9/17/2024 3:07 PM	05:00	6.54 pH	26.63 °C	13,257 µS/cm	0.06 mg/L	0.45 NTU	-180.3 mV	5.85 ft	7.75 PSU	250.00 ml/min
9/17/2024 3:12 PM	10:00	6.57 pH	26.41 °C	13,149 µS/cm	0.03 mg/L	0.65 NTU	-245.4 mV	5.90 ft	7.68 PSU	250.00 ml/min
9/17/2024 3:17 PM	15:00	6.59 pH	26.13 °C	13,000 µS/cm	0.02 mg/L	0.16 NTU	-251.3 mV	5.90 ft	7.58 PSU	250.00 ml/min
9/17/2024 3:22 PM	20:00	6.57 pH	26.21 °C	12,937 µS/cm	0.01 mg/L	0.11 NTU	-294.0 mV	5.92 ft	7.55 PSU	250.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation
FD-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/17/2024 2:53:14 PM
Project: Plant McManus 4 Week Performance
Operator Name: Natalie Piparo

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.84 ft** **Total Depth: 25.84 ft** **Initial Depth to Water: 5.4 ft**	**Pump Type: Geotech Parastaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.84 ft** **Estimated Total Volume Pumped: 10500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.33 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
9/17/2024 2:53 PM	00:00	6.77 pH	28.68 °C	13,472 µS/cm	0.11 mg/L	41.90 NTU	-225.9 mV	5.54 ft	7.89 PSU	210.00 ml/min
9/17/2024 2:58 PM	05:00	6.85 pH	26.32 °C	14,262 µS/cm	0.04 mg/L	20.00 NTU	-267.6 mV	5.57 ft	8.39 PSU	210.00 ml/min
9/17/2024 3:03 PM	10:00	6.74 pH	26.12 °C	14,124 µS/cm	0.02 mg/L	14.70 NTU	-290.3 mV	5.59 ft	8.30 PSU	210.00 ml/min
9/17/2024 3:08 PM	15:00	6.66 pH	25.99 °C	13,895 µS/cm	0.02 mg/L	11.90 NTU	-302.1 mV	5.61 ft	8.15 PSU	210.00 ml/min
9/17/2024 3:13 PM	20:00	6.59 pH	25.90 °C	13,678 µS/cm	0.01 mg/L	11.30 NTU	-316.9 mV	5.62 ft	8.01 PSU	210.00 ml/min
9/17/2024 3:18 PM	25:00	6.58 pH	25.86 °C	13,248 µS/cm	0.01 mg/L	8.28 NTU	-315.4 mV	5.65 ft	7.74 PSU	210.00 ml/min
9/17/2024 3:23 PM	30:00	6.58 pH	25.84 °C	13,049 µS/cm	0.01 mg/L	7.13 NTU	-325.2 mV	5.66 ft	7.62 PSU	210.00 ml/min
9/17/2024 3:28 PM	35:00	6.58 pH	26.07 °C	12,881 µS/cm	0.01 mg/L	5.74 NTU	-322.8 mV	5.68 ft	7.51 PSU	210.00 ml/min
9/17/2024 3:33 PM	40:00	6.59 pH	26.07 °C	12,700 µS/cm	0.00 mg/L	4.93 NTU	-326.5 mV	5.70 ft	7.40 PSU	210.00 ml/min
9/17/2024 3:38 PM	45:00	6.59 pH	26.04 °C	12,635 µS/cm	0.00 mg/L	4.01 NTU	-330.5 mV	5.71 ft	7.35 PSU	210.00 ml/min
9/17/2024 3:43 PM	50:00	6.62 pH	25.98 °C	12,430 µS/cm	0.00 mg/L	3.55 NTU	-339.3 mV	5.73 ft	7.23 PSU	210.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/1/2024 4:04:35 PM
Project: Plant McManus Week 6 Performance
Operator Name: Jay Siewert

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.86 ft** **Total Depth: 30.86 ft** **Initial Depth to Water: 5.92 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.36 ft** **Estimated Total Volume Pumped: 5357 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.07 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/1/2024 4:04 PM	00:00	6.68 pH	25.59 °C	14,254 µS/cm	0.15 mg/L	0.81 NTU	-238.5 mV	5.99 ft	8.38 PSU	220.00 ml/min
10/1/2024 4:09 PM	05:00	6.71 pH	25.62 °C	13,890 µS/cm	0.08 mg/L	0.74 NTU	-247.8 mV	5.99 ft	8.15 PSU	220.00 ml/min
10/1/2024 4:14 PM	10:00	6.74 pH	25.75 °C	13,582 µS/cm	0.05 mg/L	1.00 NTU	-302.7 mV	5.98 ft	7.95 PSU	220.00 ml/min
10/1/2024 4:18 PM	14:21	6.74 pH	25.45 °C	13,727 µS/cm	0.04 mg/L	0.85 NTU	-264.5 mV	5.99 ft	8.04 PSU	220.00 ml/min
10/1/2024 4:23 PM	19:21	6.77 pH	25.40 °C	13,439 µS/cm	0.03 mg/L	0.51 NTU	-273.4 mV	5.99 ft	7.86 PSU	220.00 ml/min
10/1/2024 4:28 PM	24:21	6.78 pH	25.26 °C	13,376 µS/cm	0.03 mg/L	0.43 NTU	-281.2 mV	5.99 ft	7.82 PSU	220.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/1/2024 4:08:40 PM
Project: Plant McManus Week 6 Performance
Operator Name: Natalie Piparo

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.44 ft** **Total Depth: 30.44 ft** **Initial Depth to Water: 5.82 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.94 ft** **Estimated Total Volume Pumped: 5750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/1/2024 4:08 PM	00:00	7.59 pH	25.41 °C	9,992.4 µS/cm	0.08 mg/L	2.49 NTU	-339.2 mV	5.85 ft	5.71 PSU	230.00 ml/min
10/1/2024 4:13 PM	05:00	7.30 pH	25.16 °C	9,853.2 µS/cm	0.06 mg/L	2.52 NTU	-350.8 mV	5.85 ft	5.62 PSU	230.00 ml/min
10/1/2024 4:18 PM	10:00	7.28 pH	24.99 °C	9,860.5 µS/cm	0.05 mg/L	1.53 NTU	-350.1 mV	5.85 ft	5.63 PSU	230.00 ml/min
10/1/2024 4:23 PM	15:00	7.28 pH	24.89 °C	9,859.2 µS/cm	0.04 mg/L	1.38 NTU	-351.0 mV	5.87 ft	5.63 PSU	230.00 ml/min
10/1/2024 4:28 PM	20:00	7.33 pH	24.79 °C	9,647.3 µS/cm	0.04 mg/L	1.13 NTU	-352.3 mV	5.86 ft	5.50 PSU	230.00 ml/min
10/1/2024 4:33 PM	25:00	7.32 pH	24.68 °C	9,651.0 µS/cm	0.04 mg/L	1.10 NTU	-340.3 mV	5.85 ft	5.50 PSU	230.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 10/1/2024 11:09:21 AM
Project: Plant McManus Week 6 Performance
Operator Name: Natalie Piparo

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 4.21 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 7700 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.45 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/1/2024 11:09 AM	00:00	6.32 pH	28.58 °C	7,170.5 µS/cm	0.38 mg/L	12.80 NTU	-136.2 mV	4.34 ft	4.00 PSU	220.00 ml/min
10/1/2024 11:14 AM	05:00	6.64 pH	25.64 °C	7,387.9 µS/cm	0.04 mg/L	9.12 NTU	-143.7 mV	4.38 ft	4.13 PSU	220.00 ml/min
10/1/2024 11:19 AM	10:00	6.77 pH	25.37 °C	7,410.0 µS/cm	0.02 mg/L	6.93 NTU	-180.9 mV	4.42 ft	4.14 PSU	220.00 ml/min
10/1/2024 11:24 AM	15:00	6.84 pH	25.36 °C	7,393.6 µS/cm	0.01 mg/L	6.14 NTU	-212.4 mV	4.46 ft	4.13 PSU	220.00 ml/min
10/1/2024 11:29 AM	20:00	6.86 pH	25.31 °C	7,379.1 µS/cm	-0.00 mg/L	5.10 NTU	-236.1 mV	4.51 ft	4.12 PSU	220.00 ml/min
10/1/2024 11:34 AM	25:00	6.87 pH	25.31 °C	7,400.4 µS/cm	-0.01 mg/L	4.63 NTU	-306.2 mV	4.55 ft	4.14 PSU	220.00 ml/min
10/1/2024 11:39 AM	30:00	6.86 pH	25.72 °C	7,395.9 µS/cm	-0.01 mg/L	3.83 NTU	-338.1 mV	4.62 ft	4.13 PSU	220.00 ml/min
10/1/2024 11:44 AM	35:00	6.87 pH	26.03 °C	7,374.2 µS/cm	-0.02 mg/L	3.49 NTU	-373.2 mV	4.66 ft	4.12 PSU	220.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 10/2/2024 9:47:28 AM
Project: Plant McManus Week 6 Performance
Operator Name: Jay Siewert

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 3.78 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 4600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.53 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/2/2024 9:47 AM	00:00	6.44 pH	26.14 °C	17,347 µS/cm	0.11 mg/L	14.70 NTU	-61.1 mV	4.27 ft	10.37 PSU	230.00 ml/min
10/2/2024 9:52 AM	05:00	6.45 pH	26.54 °C	17,231 µS/cm	0.06 mg/L	13.50 NTU	-60.8 mV	4.29 ft	10.30 PSU	230.00 ml/min
10/2/2024 9:57 AM	10:00	6.46 pH	26.36 °C	17,290 µS/cm	0.04 mg/L	11.60 NTU	-69.1 mV	4.30 ft	10.33 PSU	230.00 ml/min
10/2/2024 10:02 AM	15:00	6.46 pH	26.36 °C	17,276 µS/cm	0.03 mg/L	11.30 NTU	-69.8 mV	4.31 ft	10.32 PSU	230.00 ml/min
10/2/2024 10:07 AM	20:00	6.47 pH	26.49 °C	17,256 µS/cm	0.02 mg/L	9.83 NTU	-70.0 mV	4.31 ft	10.31 PSU	230.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/1/2024 10:28:11 AM
Project: Plant McManus Week 6 Performance
Operator Name: Jay Siewert

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 6.5 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 5250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/1/2024 10:28 AM	00:00	7.46 pH	25.30 °C	11,471 µS/cm	0.03 mg/L	0.33 NTU	-339.5 mV	6.69 ft	6.63 PSU	210.00 ml/min
10/1/2024 10:33 AM	05:00	7.00 pH	25.37 °C	11,682 µS/cm	0.02 mg/L	0.53 NTU	-338.7 mV	6.72 ft	6.76 PSU	210.00 ml/min
10/1/2024 10:38 AM	10:00	7.02 pH	25.43 °C	11,566 µS/cm	0.01 mg/L	0.60 NTU	-350.9 mV	6.72 ft	6.68 PSU	210.00 ml/min
10/1/2024 10:43 AM	15:00	7.04 pH	25.51 °C	11,424 µS/cm	0.01 mg/L	0.61 NTU	-351.3 mV	6.72 ft	6.60 PSU	210.00 ml/min
10/1/2024 10:48 AM	20:00	7.05 pH	25.60 °C	11,348 µS/cm	-0.00 mg/L	0.17 NTU	-351.6 mV	6.75 ft	6.55 PSU	210.00 ml/min
10/1/2024 10:53 AM	25:00	7.05 pH	25.58 °C	11,330 µS/cm	-0.00 mg/L	0.06 NTU	-351.5 mV	6.78 ft	6.54 PSU	210.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium
FD-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/1/2024 12:26:36 PM
Project: Plant McManus Week 6 Performance
Operator Name: Jay Siewert

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 4.74 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5875 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 235 ml/min** **Final Draw Down: 0.49 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/1/2024 12:26 PM	00:00	6.74 pH	25.54 °C	17,852 µS/cm	0.14 mg/L	0.48 NTU	-270.7 mV	5.02 ft	10.70 PSU	235.00 ml/min
10/1/2024 12:31 PM	05:00	6.70 pH	25.93 °C	14,734 µS/cm	0.05 mg/L	0.85 NTU	-271.4 mV	5.06 ft	8.69 PSU	235.00 ml/min
10/1/2024 12:36 PM	10:00	6.72 pH	25.95 °C	14,503 µS/cm	0.03 mg/L	0.83 NTU	-301.5 mV	5.11 ft	8.54 PSU	235.00 ml/min
10/1/2024 12:41 PM	15:00	6.73 pH	25.99 °C	14,314 µS/cm	0.02 mg/L	0.75 NTU	-303.9 mV	5.15 ft	8.42 PSU	235.00 ml/min
10/1/2024 12:46 PM	20:00	6.76 pH	25.87 °C	14,044 µS/cm	0.01 mg/L	0.72 NTU	-305.7 mV	5.19 ft	8.25 PSU	235.00 ml/min
10/1/2024 12:51 PM	25:00	6.79 pH	25.68 °C	13,842 µS/cm	0.01 mg/L	0.66 NTU	-308.0 mV	5.23 ft	8.12 PSU	235.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 10/2/2024 9:40:29 AM
Project: Plant McManus Week 6 Performance
Operator Name: Natalie Piparo

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 3.96 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5625 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: -0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 4L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/2/2024 9:40 AM	00:00	6.62 pH	24.98 °C	12,886 µS/cm	0.06 mg/L	0.37 NTU	-200.5 mV	3.99 ft	7.51 PSU	225.00 ml/min
10/2/2024 9:45 AM	05:00	6.59 pH	24.95 °C	12,706 µS/cm	0.05 mg/L	0.29 NTU	-275.9 mV	3.97 ft	7.40 PSU	225.00 ml/min
10/2/2024 9:50 AM	10:00	6.63 pH	24.95 °C	12,454 µS/cm	0.04 mg/L	0.24 NTU	-288.5 mV	3.96 ft	7.24 PSU	225.00 ml/min
10/2/2024 9:55 AM	15:00	6.65 pH	24.95 °C	12,311 µS/cm	0.04 mg/L	0.12 NTU	-252.6 mV	3.95 ft	7.15 PSU	225.00 ml/min
10/2/2024 10:00 AM	20:00	6.67 pH	24.94 °C	12,298 µS/cm	0.03 mg/L	0.19 NTU	-314.4 mV	3.94 ft	7.14 PSU	225.00 ml/min
10/2/2024 10:05 AM	25:00	6.66 pH	24.94 °C	12,190 µS/cm	0.03 mg/L	0.17 NTU	-323.7 mV	3.93 ft	7.07 PSU	225.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 10/1/2024 12:37:58 PM
Project: Plant McManus Week 6 Performance
Operator Name: Natalie Piparo

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.84 ft** **Total Depth: 25.84 ft** **Initial Depth to Water: 4.79 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.84 ft** **Estimated Total Volume Pumped: 13078.917 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 245 ml/min** **Final Draw Down: 0.54 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 1L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/1/2024 12:37 PM	00:00	6.77 pH	29.20 °C	13,500 µS/cm	0.11 mg/L	15.70 NTU	-211.6 mV	4.93 ft	7.90 PSU	245.00 ml/min
10/1/2024 12:41 PM	03:23	6.70 pH	26.73 °C	14,025 µS/cm	0.04 mg/L	14.50 NTU	-224.8 mV	4.95 ft	8.24 PSU	245.00 ml/min
10/1/2024 12:46 PM	08:23	6.59 pH	26.31 °C	13,870 µS/cm	0.03 mg/L	11.61 NTU	-262.5 mV	5.00 ft	8.14 PSU	245.00 ml/min
10/1/2024 12:51 PM	13:23	6.56 pH	26.23 °C	13,522 µS/cm	0.02 mg/L	9.70 NTU	-272.2 mV	5.03 ft	7.92 PSU	245.00 ml/min
10/1/2024 12:56 PM	18:23	6.58 pH	25.86 °C	13,159 µS/cm	0.02 mg/L	7.64 NTU	-278.4 mV	5.07 ft	7.68 PSU	245.00 ml/min
10/1/2024 1:01 PM	23:23	6.63 pH	25.63 °C	12,642 µS/cm	0.02 mg/L	5.40 NTU	-286.1 mV	5.10 ft	7.36 PSU	245.00 ml/min
10/1/2024 1:06 PM	28:23	6.67 pH	25.42 °C	12,422 µS/cm	0.02 mg/L	4.11 NTU	-300.2 mV	5.13 ft	7.22 PSU	245.00 ml/min
10/1/2024 1:11 PM	33:23	6.70 pH	25.43 °C	12,001 µS/cm	0.01 mg/L	3.14 NTU	-303.4 mV	5.13 ft	6.96 PSU	245.00 ml/min
10/1/2024 1:16 PM	38:23	6.73 pH	25.49 °C	11,744 µS/cm	0.01 mg/L	1.63 NTU	-305.8 mV	5.23 ft	6.80 PSU	245.00 ml/min
10/1/2024 1:21 PM	43:23	6.74 pH	25.72 °C	11,656 µS/cm	0.01 mg/L	1.27 NTU	-311.0 mV	5.28 ft	6.74 PSU	245.00 ml/min
10/1/2024 1:26 PM	48:23	6.75 pH	25.75 °C	11,589 µS/cm	0.00 mg/L	0.62 NTU	-311.8 mV	5.31 ft	6.70 PSU	245.00 ml/min
10/1/2024 1:31 PM	53:23	6.76 pH	25.60 °C	11,598 µS/cm	0.00 mg/L	0.53 NTU	-293.6 mV	5.33 ft	6.70 PSU	245.00 ml/min

Samples

Sample ID:	Description:

PT-03	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/15/2024 1:50:34 PM
Project: Plant McManus Week 8 Performance
Operator Name: Natalie Piparo

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.86 ft** **Total Depth: 30.86 ft** **Initial Depth to Water: 5.93 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.36 ft** **Estimated Total Volume Pumped: 4600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.12 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/15/2024 1:50 PM	00:00	6.78 pH	27.42 °C	13,446 µS/cm	0.18 mg/L	0.97 NTU	-233.6 mV	5.99 ft	7.87 PSU	230.00 ml/min
10/15/2024 1:55 PM	05:00	6.76 pH	25.60 °C	13,628 µS/cm	0.10 mg/L	0.93 NTU	-314.6 mV	6.00 ft	7.98 PSU	230.00 ml/min
10/15/2024 2:00 PM	10:00	6.77 pH	25.36 °C	13,510 µS/cm	0.14 mg/L	0.37 NTU	-318.5 mV	6.01 ft	7.91 PSU	230.00 ml/min
10/15/2024 2:05 PM	15:00	6.81 pH	25.22 °C	13,145 µS/cm	0.06 mg/L	0.39 NTU	-325.2 mV	6.03 ft	7.67 PSU	230.00 ml/min
10/15/2024 2:10 PM	20:00	6.80 pH	25.19 °C	13,206 µS/cm	0.05 mg/L	0.37 NTU	-328.4 mV	6.05 ft	7.71 PSU	230.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals , Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/16/2024 9:42:27 AM
Project: Plant McManus Week 8 Performance
Operator Name: Jay Siewert

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.44 ft** **Total Depth: 30.44 ft** **Initial Depth to Water: 3.71 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.94 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.14 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/16/2024 9:42 AM	00:00	7.53 pH	22.48 °C	10,316 µS/cm	0.10 mg/L	3.49 NTU	-360.6 mV	3.76 ft	5.90 PSU	240.00 ml/min
10/16/2024 9:47 AM	05:00	7.24 pH	22.95 °C	10,103 µS/cm	0.05 mg/L	2.34 NTU	-365.2 mV	3.77 ft	5.77 PSU	240.00 ml/min
10/16/2024 9:52 AM	10:00	7.25 pH	22.85 °C	10,116 µS/cm	0.03 mg/L	2.13 NTU	-369.5 mV	3.79 ft	5.78 PSU	240.00 ml/min
10/16/2024 9:57 AM	15:00	7.27 pH	23.10 °C	9,983.1 µS/cm	0.02 mg/L	2.32 NTU	-367.8 mV	3.80 ft	5.70 PSU	240.00 ml/min
10/16/2024 10:02 AM	20:00	7.28 pH	22.92 °C	9,957.3 µS/cm	0.02 mg/L	2.15 NTU	-368.2 mV	3.83 ft	5.68 PSU	240.00 ml/min
10/16/2024 10:07 AM	25:00	7.29 pH	22.97 °C	9,941.7 µS/cm	0.01 mg/L	1.23 NTU	-368.9 mV	3.85 ft	5.67 PSU	240.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/15/2024 9:47:58 AM
Project: Plant McManus Week 8 Performance
Operator Name: Jay Siewert

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 4.22 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 5500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.44 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 3.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/15/2024 9:47 AM	00:00	6.90 pH	23.57 °C	8,051.0 µS/cm	0.03 mg/L	3.53 NTU	-177.7 mV	4.41 ft	4.52 PSU	220.00 ml/min
10/15/2024 9:52 AM	05:00	6.92 pH	23.97 °C	7,462.5 µS/cm	0.01 mg/L	2.35 NTU	-209.1 mV	4.45 ft	4.17 PSU	220.00 ml/min
10/15/2024 9:57 AM	10:00	6.93 pH	24.04 °C	7,482.8 µS/cm	-0.01 mg/L	3.01 NTU	-240.6 mV	4.50 ft	4.18 PSU	220.00 ml/min
10/15/2024 10:02 AM	15:00	6.93 pH	24.33 °C	7,477.0 µS/cm	-0.02 mg/L	2.34 NTU	-262.6 mV	4.55 ft	4.18 PSU	220.00 ml/min
10/15/2024 10:07 AM	20:00	6.92 pH	24.49 °C	7,477.9 µS/cm	-0.02 mg/L	1.99 NTU	-302.3 mV	4.60 ft	4.18 PSU	220.00 ml/min
10/15/2024 10:12 AM	25:00	6.92 pH	24.58 °C	7,464.5 µS/cm	-0.03 mg/L	1.96 NTU	-364.6 mV	4.66 ft	4.17 PSU	220.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation
FD-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 10/15/2024 1:32:14 PM
Project: Plant McManus Week 8 Performance
Operator Name: Jay Siewert

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 5.6 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 6600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.82 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/15/2024 1:32 PM	00:00	6.54 pH	26.04 °C	17,656 µS/cm	0.15 mg/L	14.70 NTU	-121.8 mV	6.15 ft	10.57 PSU	220.00 ml/min
10/15/2024 1:37 PM	05:00	6.53 pH	26.31 °C	17,466 µS/cm	0.08 mg/L	12.00 NTU	-120.9 mV	6.22 ft	10.45 PSU	220.00 ml/min
10/15/2024 1:42 PM	10:00	6.53 pH	26.35 °C	17,414 µS/cm	0.05 mg/L	12.50 NTU	-124.6 mV	6.31 ft	10.41 PSU	220.00 ml/min
10/15/2024 1:47 PM	15:00	6.53 pH	26.28 °C	17,463 µS/cm	0.04 mg/L	11.18 NTU	-123.7 mV	6.34 ft	10.45 PSU	220.00 ml/min
10/15/2024 1:52 PM	20:00	6.53 pH	26.25 °C	17,443 µS/cm	0.03 mg/L	10.73 NTU	-122.5 mV	6.38 ft	10.43 PSU	220.00 ml/min
10/15/2024 1:57 PM	25:00	6.53 pH	26.23 °C	17,485 µS/cm	0.03 mg/L	9.52 NTU	-121.9 mV	6.41 ft	10.46 PSU	220.00 ml/min
10/15/2024 2:02 PM	30:00	6.53 pH	26.16 °C	17,462 µS/cm	0.02 mg/L	8.73 NTU	-120.6 mV	6.42 ft	10.44 PSU	220.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 10/15/2024 11:08:52 AM
Project: Plant McManus Week 8 Performance
Operator Name: Natalie Piparo

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 7.45 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 4600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.36 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 3L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/15/2024 11:08 AM	00:00	6.97 pH	27.65 °C	11,972 µS/cm	1.08 mg/L	1.66 NTU	-224.8 mV	7.66 ft	6.94 PSU	230.00 ml/min
10/15/2024 11:13 AM	05:00	6.99 pH	24.40 °C	12,471 µS/cm	0.02 mg/L	0.77 NTU	-227.8 mV	7.70 ft	7.25 PSU	230.00 ml/min
10/15/2024 11:18 AM	10:00	7.01 pH	24.18 °C	12,290 µS/cm	0.00 mg/L	0.50 NTU	-312.1 mV	7.74 ft	7.13 PSU	230.00 ml/min
10/15/2024 11:23 AM	15:00	7.04 pH	24.14 °C	12,122 µS/cm	0.00 mg/L	0.38 NTU	-313.7 mV	7.80 ft	7.03 PSU	230.00 ml/min
10/15/2024 11:28 AM	20:00	7.05 pH	24.31 °C	12,021 µS/cm	-0.00 mg/L	0.47 NTU	-230.0 mV	7.81 ft	6.97 PSU	230.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/15/2024 9:28:51 AM
Project: Plant McManus Week 8 Performance
Operator Name: Natalie Piparo

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 3.97 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.41 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/15/2024 9:28 AM	00:00	6.62 pH	23.46 °C	15,095 µS/cm	0.29 mg/L	1.70 NTU	-182.7 mV	4.18 ft	8.91 PSU	230.00 ml/min
10/15/2024 9:33 AM	05:00	6.66 pH	23.29 °C	14,957 µS/cm	0.11 mg/L	0.69 NTU	-183.7 mV	4.22 ft	8.82 PSU	230.00 ml/min
10/15/2024 9:38 AM	10:00	6.70 pH	23.33 °C	14,727 µS/cm	0.06 mg/L	0.41 NTU	-259.9 mV	4.27 ft	8.67 PSU	230.00 ml/min
10/15/2024 9:43 AM	15:00	6.71 pH	23.42 °C	14,481 µS/cm	0.05 mg/L	0.51 NTU	-184.6 mV	4.29 ft	8.52 PSU	230.00 ml/min
10/15/2024 9:48 AM	20:00	6.75 pH	23.42 °C	14,173 µS/cm	0.04 mg/L	0.47 NTU	-265.7 mV	4.34 ft	8.32 PSU	230.00 ml/min
10/15/2024 9:53 AM	25:00	6.76 pH	23.41 °C	13,991 µS/cm	0.04 mg/L	0.40 NTU	-187.6 mV	4.38 ft	8.20 PSU	230.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 10/15/2024 3:31:54 PM
Project: Plant McManus Week 8 Performance
Operator Name: Natalie Piparo

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 6.24 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 4800 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.13 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/15/2024 3:31 PM	00:00	6.55 pH	26.95 °C	12,739 µS/cm	0.16 mg/L	1.48 NTU	-211.3 mV	6.35 ft	7.42 PSU	240.00 ml/min
10/15/2024 3:36 PM	05:00	6.52 pH	25.50 °C	13,003 µS/cm	0.11 mg/L	0.55 NTU	-212.1 mV	6.36 ft	7.59 PSU	240.00 ml/min
10/15/2024 3:41 PM	10:00	6.51 pH	25.30 °C	13,019 µS/cm	0.08 mg/L	0.72 NTU	-272.6 mV	6.36 ft	7.60 PSU	240.00 ml/min
10/15/2024 3:46 PM	15:00	6.51 pH	25.13 °C	13,069 µS/cm	0.07 mg/L	0.70 NTU	-276.5 mV	6.36 ft	7.63 PSU	240.00 ml/min
10/15/2024 3:51 PM	20:00	6.49 pH	24.99 °C	13,120 µS/cm	0.06 mg/L	0.36 NTU	-278.3 mV	6.37 ft	7.66 PSU	240.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/15/2024 3:51:44 PM
Project: Plant McManus Week 8 Performance
Operator Name: Jay Siewert

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.84 ft** **Total Depth: 25.84 ft** **Initial Depth to Water: 6.02 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.84 ft** **Estimated Total Volume Pumped: 5500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/15/2024 3:51 PM	00:00	7.11 pH	26.23 °C	14,606 µS/cm	0.03 mg/L	1.22 NTU	-311.8 mV	6.09 ft	8.60 PSU	220.00 ml/min
10/15/2024 3:56 PM	05:00	6.58 pH	26.41 °C	14,283 µS/cm	0.02 mg/L	0.92 NTU	-319.6 mV	6.09 ft	8.40 PSU	220.00 ml/min
10/15/2024 4:01 PM	10:00	6.54 pH	26.41 °C	14,148 µS/cm	0.01 mg/L	0.90 NTU	-325.0 mV	6.09 ft	8.31 PSU	220.00 ml/min
10/15/2024 4:06 PM	15:00	6.54 pH	26.35 °C	13,973 µS/cm	0.01 mg/L	0.95 NTU	-323.9 mV	6.07 ft	8.20 PSU	220.00 ml/min
10/15/2024 4:11 PM	20:00	6.55 pH	26.34 °C	13,751 µS/cm	0.00 mg/L	1.06 NTU	-329.5 mV	6.06 ft	8.06 PSU	220.00 ml/min
10/15/2024 4:16 PM	25:00	6.57 pH	26.11 °C	13,564 µS/cm	0.00 mg/L	0.83 NTU	-333.1 mV	6.05 ft	7.94 PSU	220.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/29/2024 10:48:32 AM
Project: Plant McManus Week 10 Performance
Operator Name: Jay Siewert

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.86 ft** **Total Depth: 30.86 ft** **Initial Depth to Water: 4.55 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.36 ft** **Estimated Total Volume Pumped: 4750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 190 ml/min** **Final Draw Down: 0.37 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L.
FD-01

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/29/2024 10:48 AM	00:00	7.21 pH	23.68 °C	14,374 µS/cm	0.19 mg/L	2.75 NTU	-319.6 mV	4.73 ft	8.45 PSU	190.00 ml/min
10/29/2024 10:53 AM	05:00	6.79 pH	24.04 °C	13,731 µS/cm	0.10 mg/L	0.32 NTU	-323.2 mV	4.77 ft	8.04 PSU	190.00 ml/min
10/29/2024 10:58 AM	10:00	6.82 pH	24.09 °C	13,455 µS/cm	0.07 mg/L	0.20 NTU	-336.9 mV	4.80 ft	7.87 PSU	190.00 ml/min
10/29/2024 11:03 AM	15:00	6.83 pH	23.98 °C	13,381 µS/cm	0.05 mg/L	0.27 NTU	-339.6 mV	4.84 ft	7.82 PSU	190.00 ml/min
10/29/2024 11:08 AM	20:00	6.83 pH	24.05 °C	13,228 µS/cm	0.04 mg/L	0.19 NTU	-331.2 mV	4.89 ft	7.72 PSU	190.00 ml/min
10/29/2024 11:13 AM	25:00	6.86 pH	23.92 °C	13,129 µS/cm	0.03 mg/L	0.16 NTU	-332.7 mV	4.92 ft	7.66 PSU	190.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium
FD-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/29/2024 3:39:48 PM
Project: Plant McManus 10 Week Performance
Operator Name: Natalie Piparo

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.44 ft** **Total Depth: 30.44 ft** **Initial Depth to Water: 5.85 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.94 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: -0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/29/2024 3:39 PM	00:00	7.46 pH	24.07 °C	9,683.6 µS/cm	0.19 mg/L	5.95 NTU	-325.6 mV	5.85 ft	5.52 PSU	240.00 ml/min
10/29/2024 3:44 PM	05:00	7.34 pH	23.93 °C	9,719.8 µS/cm	0.08 mg/L	4.17 NTU	-340.3 mV	5.84 ft	5.54 PSU	240.00 ml/min
10/29/2024 3:49 PM	10:00	7.34 pH	23.94 °C	9,720.5 µS/cm	0.05 mg/L	3.70 NTU	-360.8 mV	5.81 ft	5.54 PSU	240.00 ml/min
10/29/2024 3:54 PM	15:00	7.35 pH	23.93 °C	9,642.7 µS/cm	0.05 mg/L	2.75 NTU	-360.5 mV	5.80 ft	5.49 PSU	240.00 ml/min
10/29/2024 3:59 PM	20:00	7.36 pH	23.96 °C	9,608.9 µS/cm	0.04 mg/L	2.11 NTU	-360.9 mV	5.77 ft	5.47 PSU	240.00 ml/min
10/29/2024 4:04 PM	25:00	7.36 pH	23.96 °C	9,616.2 µS/cm	0.04 mg/L	1.99 NTU	-361.1 mV	5.74 ft	5.48 PSU	240.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 10/29/2024 9:29:27 AM
Project: Plant McManus 10 Week Performance
Operator Name: Natalie Piparo

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 3.97 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 6060 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/29/2024 9:29 AM	00:00	6.70 pH	22.51 °C	7,592.4 µS/cm	0.10 mg/L	5.91 NTU	-151.4 mV	4.08 ft	4.25 PSU	240.00 ml/min
10/29/2024 9:34 AM	05:00	6.83 pH	22.65 °C	7,528.3 µS/cm	0.05 mg/L	4.25 NTU	-310.1 mV	4.12 ft	4.21 PSU	240.00 ml/min
10/29/2024 9:39 AM	10:15	6.90 pH	22.70 °C	7,530.6 µS/cm	0.02 mg/L	3.77 NTU	-391.5 mV	4.16 ft	4.21 PSU	240.00 ml/min
10/29/2024 9:44 AM	15:15	6.87 pH	22.69 °C	7,539.3 µS/cm	0.01 mg/L	2.78 NTU	-445.0 mV	4.19 ft	4.22 PSU	240.00 ml/min
10/29/2024 9:49 AM	20:15	6.90 pH	22.75 °C	7,564.8 µS/cm	-0.00 mg/L	2.18 NTU	-462.4 mV	4.23 ft	4.23 PSU	240.00 ml/min
10/29/2024 9:54 AM	25:15	6.90 pH	22.79 °C	7,596.3 µS/cm	-0.01 mg/L	2.58 NTU	-471.2 mV	4.25 ft	4.25 PSU	240.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 10/29/2024 10:56:52 AM
Project: Plant McManus 10 Week Performance
Operator Name: Natalie Piparo

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 4.27 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 13200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 1.23 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 3L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/29/2024 10:56 AM	00:00	6.60 pH	23.70 °C	17,871 µS/cm	2.44 mg/L	16.70 NTU	-162.7 mV	4.87 ft	10.70 PSU	240.00 ml/min
10/29/2024 11:01 AM	05:00	6.52 pH	23.65 °C	17,733 µS/cm	0.16 mg/L	11.70 NTU	-172.5 mV	5.03 ft	10.61 PSU	240.00 ml/min
10/29/2024 11:06 AM	10:00	6.53 pH	23.73 °C	17,733 µS/cm	0.08 mg/L	10.95 NTU	-179.0 mV	5.14 ft	10.61 PSU	240.00 ml/min
10/29/2024 11:11 AM	15:00	6.52 pH	23.78 °C	17,683 µS/cm	0.05 mg/L	8.17 NTU	-181.2 mV	5.19 ft	10.58 PSU	240.00 ml/min
10/29/2024 11:16 AM	20:00	6.52 pH	23.84 °C	17,662 µS/cm	0.04 mg/L	7.19 NTU	-179.1 mV	5.25 ft	10.57 PSU	240.00 ml/min
10/29/2024 11:21 AM	25:00	6.52 pH	23.73 °C	17,690 µS/cm	0.04 mg/L	6.82 NTU	-184.5 mV	5.29 ft	10.58 PSU	240.00 ml/min
10/29/2024 11:26 AM	30:00	6.53 pH	23.71 °C	17,650 µS/cm	0.03 mg/L	5.40 NTU	-181.7 mV	5.34 ft	10.56 PSU	240.00 ml/min
10/29/2024 11:31 AM	35:00	6.53 pH	23.79 °C	17,671 µS/cm	0.03 mg/L	5.67 NTU	-187.3 mV	5.36 ft	10.57 PSU	240.00 ml/min
10/29/2024 11:36 AM	40:00	6.54 pH	23.95 °C	17,571 µS/cm	0.02 mg/L	5.46 NTU	-188.1 mV	5.39 ft	10.51 PSU	240.00 ml/min
10/29/2024 11:41 AM	45:00	6.53 pH	23.78 °C	17,620 µS/cm	0.02 mg/L	4.88 NTU	-184.1 mV	5.43 ft	10.54 PSU	240.00 ml/min
10/29/2024 11:46 AM	50:00	6.53 pH	23.82 °C	17,621 µS/cm	0.02 mg/L	4.92 NTU	-190.0 mV	5.47 ft	10.54 PSU	240.00 ml/min
10/29/2024 11:51 AM	55:00	6.54 pH	23.87 °C	17,610 µS/cm	0.02 mg/L	4.47 NTU	-185.0 mV	5.50 ft	10.53 PSU	240.00 ml/min

Samples

Sample ID:	Description:

INW-01	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/29/2024 1:40:07 PM
Project: Plant McManus Week 10 Performance
Operator Name: Jay Siewert

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 5.8 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 4400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/29/2024 1:40 PM	00:00	6.58 pH	25.39 °C	13,212 µS/cm	0.09 mg/L	0.35 NTU	-183.4 mV	5.94 ft	7.72 PSU	220.00 ml/min
10/29/2024 1:45 PM	05:00	6.60 pH	25.69 °C	12,998 µS/cm	0.02 mg/L	0.07 NTU	-229.3 mV	5.95 ft	7.58 PSU	220.00 ml/min
10/29/2024 1:50 PM	10:00	6.55 pH	25.66 °C	12,965 µS/cm	0.01 mg/L	0.12 NTU	-257.6 mV	5.97 ft	7.56 PSU	220.00 ml/min
10/29/2024 1:55 PM	15:00	6.55 pH	25.51 °C	12,688 µS/cm	0.01 mg/L	0.06 NTU	-307.6 mV	5.98 ft	7.39 PSU	220.00 ml/min
10/29/2024 2:00 PM	20:00	6.55 pH	25.62 °C	12,778 µS/cm	0.01 mg/L	0.06 NTU	-342.9 mV	6.00 ft	7.44 PSU	220.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 10/29/2024 1:48:55 PM
Project: Plant McManus 10 Week Performance
Operator Name: Natalie Piparo

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.84 ft** **Total Depth: 25.84 ft** **Initial Depth to Water: 5.59 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.84 ft** **Estimated Total Volume Pumped: 10125 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: 0.25 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000	
10/29/2024 1:48 PM	00:00	6.75 pH	24.96 °C	13,927 µS/cm	0.03 mg/L	24.70 NTU	-248.4 mV	5.70 ft	8.17 PSU	225.00 ml/min
10/29/2024 1:53 PM	05:00	6.62 pH	24.78 °C	13,661 µS/cm	0.03 mg/L	19.10 NTU	-304.1 mV	5.71 ft	8.00 PSU	225.00 ml/min
10/29/2024 1:58 PM	10:00	6.63 pH	24.94 °C	13,261 µS/cm	0.02 mg/L	15.40 NTU	-280.5 mV	5.72 ft	7.75 PSU	225.00 ml/min
10/29/2024 2:03 PM	15:00	6.69 pH	24.86 °C	12,795 µS/cm	0.02 mg/L	11.40 NTU	-320.8 mV	5.74 ft	7.45 PSU	225.00 ml/min
10/29/2024 2:08 PM	20:00	6.72 pH	24.98 °C	12,479 µS/cm	0.01 mg/L	9.70 NTU	-326.7 mV	5.75 ft	7.26 PSU	225.00 ml/min
10/29/2024 2:13 PM	25:00	6.75 pH	25.12 °C	12,167 µS/cm	0.01 mg/L	7.77 NTU	-331.7 mV	5.77 ft	7.06 PSU	225.00 ml/min
10/29/2024 2:18 PM	30:00	6.77 pH	24.85 °C	12,231 µS/cm	0.02 mg/L	5.15 NTU	-334.4 mV	5.79 ft	7.10 PSU	225.00 ml/min
10/29/2024 2:23 PM	35:00	6.83 pH	24.66 °C	11,672 µS/cm	0.02 mg/L	4.02 NTU	-338.9 mV	5.81 ft	6.75 PSU	225.00 ml/min
10/29/2024 2:28 PM	40:00	6.84 pH	24.46 °C	11,689 µS/cm	0.02 mg/L	3.42 NTU	-341.9 mV	5.83 ft	6.76 PSU	225.00 ml/min
10/29/2024 2:33 PM	45:00	6.84 pH	24.36 °C	11,673 µS/cm	0.02 mg/L	2.11 NTU	-325.7 mV	5.84 ft	6.75 PSU	225.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss Metals, Inorganics, Sulfide, Deuterium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/29/2024 3:00:25 PM
Project: Plant McManus Week 10 Performance
Operator Name: Jay Siewert

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 5.98 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.12 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
10/29/2024 3:00 PM	00:00	7.23 pH	24.75 °C	15,199 µS/cm	0.15 mg/L	1.37 NTU	-311.8 mV	6.10 ft	8.98 PSU	220.00 ml/min
10/29/2024 3:05 PM	05:00	6.76 pH	24.76 °C	14,612 µS/cm	0.08 mg/L	0.36 NTU	-315.9 mV	6.10 ft	8.60 PSU	220.00 ml/min
10/29/2024 3:10 PM	10:00	6.78 pH	24.51 °C	14,404 µS/cm	0.06 mg/L	0.22 NTU	-329.0 mV	6.10 ft	8.47 PSU	220.00 ml/min
10/29/2024 3:15 PM	15:00	6.80 pH	24.36 °C	14,185 µS/cm	0.04 mg/L	0.33 NTU	-329.6 mV	6.10 ft	8.33 PSU	220.00 ml/min
10/29/2024 3:20 PM	20:00	6.82 pH	24.28 °C	13,919 µS/cm	0.03 mg/L	0.34 NTU	-330.9 mV	6.10 ft	8.16 PSU	220.00 ml/min
10/29/2024 3:25 PM	25:00	6.83 pH	24.45 °C	13,763 µS/cm	0.03 mg/L	0.12 NTU	-331.7 mV	6.10 ft	8.06 PSU	220.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss. Metals, Inorganics, Sulfide, Deuterium

Low-Flow Test Report:

Test Date / Time: 11/12/2024 3:02:50 PM
Project: Plant McManus Week 12 Performance
Operator Name: Jay Siewert

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.86 ft** **Total Depth: 30.86 ft** **Initial Depth to Water: 5.48 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.36 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.37 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
11/12/2024 3:02 PM	00:00	6.74 pH	26.18 °C	14,708 µS/cm	0.13 mg/L	0.57 NTU	-235.4 mV	5.36 ft	8.67 PSU	200.00 ml/min
11/12/2024 3:07 PM	05:00	6.72 pH	26.19 °C	14,236 µS/cm	0.07 mg/L	0.31 NTU	-246.3 mV	5.30 ft	8.37 PSU	200.00 ml/min
11/12/2024 3:12 PM	10:00	6.73 pH	26.00 °C	14,177 µS/cm	0.04 mg/L	0.30 NTU	-253.5 mV	5.24 ft	8.33 PSU	200.00 ml/min
11/12/2024 3:17 PM	15:00	6.76 pH	26.06 °C	13,999 µS/cm	0.02 mg/L	0.29 NTU	-302.5 mV	5.18 ft	8.22 PSU	200.00 ml/min
11/12/2024 3:22 PM	20:00	6.79 pH	25.81 °C	13,839 µS/cm	0.02 mg/L	0.28 NTU	-306.3 mV	5.11 ft	8.12 PSU	200.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 11/13/2024 9:28:06 AM
Project: Plant McManus Week 12 Performance
Operator Name: Jay Siewert

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.44 ft** **Total Depth: 30.44 ft** **Initial Depth to Water: 3.7 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.94 ft** **Estimated Total Volume Pumped: 4200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.36 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
11/13/2024 9:28 AM	00:00	7.11 pH	24.67 °C	10,275 µS/cm	0.18 mg/L	1.80 NTU	-228.0 mV	3.86 ft	5.88 PSU	210.00 ml/min
11/13/2024 9:33 AM	05:00	7.12 pH	24.85 °C	10,389 µS/cm	0.09 mg/L	2.07 NTU	-237.8 mV	3.90 ft	5.95 PSU	210.00 ml/min
11/13/2024 9:38 AM	10:00	7.15 pH	24.94 °C	10,329 µS/cm	0.05 mg/L	1.43 NTU	-292.5 mV	3.96 ft	5.92 PSU	210.00 ml/min
11/13/2024 9:43 AM	15:00	7.17 pH	25.03 °C	10,218 µS/cm	0.03 mg/L	1.06 NTU	-295.5 mV	4.01 ft	5.85 PSU	210.00 ml/min
11/13/2024 9:48 AM	20:00	7.20 pH	25.00 °C	10,162 µS/cm	0.03 mg/L	0.72 NTU	-297.5 mV	4.06 ft	5.81 PSU	210.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 11/12/2024 10:01:00 AM
Project: Plant McManus 12 Week Performance
Operator Name: William Laaker

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 5.36 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
11/12/2024 10:01 AM	00:00	6.91 pH	24.14 °C	7,402.7 µS/cm	0.03 mg/L	2.75 NTU	-180.3 mV	5.51 ft	4.14 PSU	200.00 ml/min
11/12/2024 10:06 AM	05:00	7.00 pH	24.06 °C	7,413.0 µS/cm	0.00 mg/L	1.64 NTU	-253.2 mV	5.54 ft	4.14 PSU	200.00 ml/min
11/12/2024 10:11 AM	10:00	7.02 pH	24.16 °C	7,430.6 µS/cm	-0.01 mg/L	1.19 NTU	-353.9 mV	5.57 ft	4.15 PSU	200.00 ml/min
11/12/2024 10:16 AM	15:00	7.01 pH	24.31 °C	7,446.5 µS/cm	-0.01 mg/L	0.78 NTU	-441.0 mV	5.60 ft	4.16 PSU	200.00 ml/min
11/12/2024 10:21 AM	20:00	7.01 pH	24.43 °C	7,476.5 µS/cm	-0.02 mg/L	0.93 NTU	-469.7 mV	5.63 ft	4.18 PSU	200.00 ml/min
11/12/2024 10:26 AM	25:00	6.98 pH	24.59 °C	7,503.4 µS/cm	-0.02 mg/L	0.74 NTU	-487.2 mV	5.66 ft	4.20 PSU	200.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 11/12/2024 2:51:48 PM
Project: Plant McManus 12 Week Performance
Operator Name: William Laaker

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 5.44 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.27 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
11/12/2024 2:51 PM	00:00	6.56 pH	25.49 °C	16,978 µS/cm	0.13 mg/L	1.32 NTU	-144.9 mV	5.82 ft	10.13 PSU	200.00 ml/min
11/12/2024 2:56 PM	05:00	6.56 pH	25.38 °C	16,900 µS/cm	0.09 mg/L	0.73 NTU	-146.1 mV	5.83 ft	10.08 PSU	200.00 ml/min
11/12/2024 3:01 PM	10:00	6.55 pH	25.31 °C	16,935 µS/cm	0.08 mg/L	0.84 NTU	-156.4 mV	5.81 ft	10.10 PSU	200.00 ml/min
11/12/2024 3:06 PM	15:00	6.55 pH	25.29 °C	16,935 µS/cm	0.07 mg/L	1.20 NTU	-147.0 mV	5.76 ft	10.10 PSU	200.00 ml/min
11/12/2024 3:11 PM	20:00	6.55 pH	25.22 °C	16,965 µS/cm	0.07 mg/L	0.99 NTU	-156.6 mV	5.71 ft	10.12 PSU	200.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 11/12/2024 9:49:59 AM
Project: Plant McManus Week 12 Performance
Operator Name: Jay Siewert

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 7.73 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.44 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
11/12/2024 9:49 AM	00:00	7.31 pH	24.52 °C	13,740 µS/cm	0.01 mg/L	0.75 NTU	-314.5 mV	7.99 ft	8.05 PSU	200.00 ml/min
11/12/2024 9:54 AM	05:00	6.94 pH	24.95 °C	13,314 µS/cm	0.00 mg/L	0.36 NTU	-337.1 mV	8.01 ft	7.78 PSU	200.00 ml/min
11/12/2024 9:59 AM	10:00	6.95 pH	24.97 °C	13,229 µS/cm	-0.00 mg/L	0.24 NTU	-338.1 mV	8.06 ft	7.73 PSU	200.00 ml/min
11/12/2024 10:04 AM	15:00	6.97 pH	24.94 °C	13,112 µS/cm	-0.00 mg/L	0.29 NTU	-317.2 mV	8.10 ft	7.65 PSU	200.00 ml/min
11/12/2024 10:09 AM	20:00	6.99 pH	25.07 °C	13,003 µS/cm	-0.01 mg/L	0.28 NTU	-338.9 mV	8.13 ft	7.59 PSU	200.00 ml/min
11/12/2024 10:14 AM	25:00	7.01 pH	25.12 °C	12,908 µS/cm	-0.01 mg/L	0.26 NTU	-338.9 mV	8.17 ft	7.53 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation
FD-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 11/12/2024 12:18:00 PM
Project: Plant McManus Week 12 Performance
Operator Name: Jay Siewert

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 5.91 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.21 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850762**

Test Notes:
Pre-purged 2.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 10	
11/12/2024 12:18 PM	00:00	7.05 pH	25.73 °C	16,654 µS/cm	0.08 mg/L	0.72 NTU	-242.3 mV	6.05 ft	9.92 PSU	200.00 ml/min
11/12/2024 12:23 PM	05:00	6.75 pH	25.90 °C	15,279 µS/cm	0.04 mg/L	0.46 NTU	-245.0 mV	6.07 ft	9.03 PSU	200.00 ml/min
11/12/2024 12:28 PM	10:00	6.75 pH	26.03 °C	15,130 µS/cm	0.03 mg/L	0.42 NTU	-294.6 mV	6.11 ft	8.94 PSU	200.00 ml/min
11/12/2024 12:33 PM	15:00	6.78 pH	25.90 °C	14,815 µS/cm	0.02 mg/L	0.33 NTU	-297.1 mV	6.11 ft	8.74 PSU	200.00 ml/min
11/12/2024 12:38 PM	20:00	6.77 pH	25.96 °C	14,800 µS/cm	0.02 mg/L	0.41 NTU	-298.1 mV	6.11 ft	8.73 PSU	200.00 ml/min
11/12/2024 12:43 PM	25:00	6.79 pH	25.90 °C	14,562 µS/cm	0.01 mg/L	0.29 NTU	-300.1 mV	6.12 ft	8.58 PSU	200.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 11/13/2024 9:23:20 AM
Project: Plant McManus 12 Week Performance
Operator Name: William Laaker

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 3.79 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.47 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
11/13/2024 9:23 AM	00:00	6.42 pH	24.12 °C	13,417 µS/cm	0.14 mg/L	0.35 NTU	-118.1 mV	4.05 ft	7.84 PSU	200.00 ml/min
11/13/2024 9:28 AM	05:00	6.43 pH	24.50 °C	13,314 µS/cm	0.07 mg/L	0.34 NTU	-154.8 mV	4.10 ft	7.78 PSU	200.00 ml/min
11/13/2024 9:33 AM	10:00	6.44 pH	24.43 °C	13,250 µS/cm	0.05 mg/L	0.43 NTU	-162.0 mV	4.16 ft	7.74 PSU	200.00 ml/min
11/13/2024 9:38 AM	15:00	6.46 pH	24.61 °C	13,170 µS/cm	0.04 mg/L	0.46 NTU	-169.9 mV	4.21 ft	7.69 PSU	200.00 ml/min
11/13/2024 9:43 AM	20:00	6.47 pH	24.72 °C	13,116 µS/cm	0.03 mg/L	0.42 NTU	-177.7 mV	4.26 ft	7.66 PSU	200.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 11/12/2024 12:01:21 PM
Project: Plant McManus 12 Week Performance
Operator Name: William Laaker

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.84 ft** **Total Depth: 25.84 ft** **Initial Depth to Water: 5.74 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.84 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.17 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
11/12/2024 12:01 PM	00:00	6.99 pH	25.84 °C	13,967 µS/cm	0.00 mg/L	0.74 NTU	-321.7 mV	5.85 ft	8.20 PSU	200.00 ml/min
11/12/2024 12:06 PM	05:00	6.49 pH	25.72 °C	14,158 µS/cm	-0.00 mg/L	0.47 NTU	-326.0 mV	5.86 ft	8.32 PSU	200.00 ml/min
11/12/2024 12:11 PM	10:00	6.49 pH	25.65 °C	14,076 µS/cm	-0.01 mg/L	0.65 NTU	-325.3 mV	5.87 ft	8.27 PSU	200.00 ml/min
11/12/2024 12:16 PM	15:00	6.49 pH	25.55 °C	13,958 µS/cm	-0.01 mg/L	1.09 NTU	-323.9 mV	5.88 ft	8.19 PSU	200.00 ml/min
11/12/2024 12:21 PM	20:00	6.52 pH	25.54 °C	13,682 µS/cm	-0.01 mg/L	1.05 NTU	-326.8 mV	5.90 ft	8.02 PSU	200.00 ml/min
11/12/2024 12:26 PM	25:00	6.55 pH	25.50 °C	13,418 µS/cm	-0.01 mg/L	0.75 NTU	-330.1 mV	5.91 ft	7.85 PSU	200.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Appendix C

GEL Laboratories LLC
a member of The GEL Group INC

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

September 23, 2024

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

Re: Plant McManus CCR Groundwater Compliance Week 1
Work Order: 683401

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 29, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 683401 in the left-hand footer of the data report. Revision 01 includes the addition of Iron and Sodium results to the final package.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683401001	MCM-INW-01	Ground Water	08/27/24 12:12	08/29/24 14:20
683401002	MCM-MCM-06	Ground Water	08/28/24 15:34	08/29/24 14:20
683401003	MCM-PT-01	Ground Water	08/28/24 14:10	08/29/24 14:20
683401004	MCM-PT-02	Ground Water	08/28/24 10:12	08/29/24 14:20
683401005	MCM-PT-03	Ground Water	08/27/24 15:10	08/29/24 14:20
683401006	MCM-DR-01	Ground Water	08/28/24 11:46	08/29/24 14:20
683401007	MCM-DR-02	Ground Water	08/27/24 16:30	08/29/24 14:20
683401008	MCM-DR-03	Ground Water	08/27/24 10:22	08/29/24 14:20
683401009	MCM-AP1-FD-01	Ground Water	08/27/24 12:00	08/29/24 14:20
683401010	MCM-AP1-FB-01	Water	08/27/24 17:30	08/29/24 14:20
683401011	MCM-AP1-EB-01	Water	08/27/24 17:36	08/29/24 14:20

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

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	30-AUG-2024
SW846 7470A Prep	30-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	30-AUG-2024
SM 2320B	30-AUG-2024
SM 2540C	03-SEP-2024
SW846 3005A/6020B	07-SEP-2024
SW846 3005A/6020B	08-SEP-2024
SW846 3005A/6020B	16-SEP-2024
SW846 7470A	03-SEP-2024

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

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683401 GEL Work Order: 683401

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

J Value is estimated

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

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

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

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

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

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	683401001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 12:12		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3350	67.0	200	mg/L		1000	CH6	08/30/24	0003	2664760	1
Sulfate		230	2.66	8.00	mg/L		20	CH6	08/30/24	2142	2664760	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1242	2665343	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.293	0.0260	0.0750	mg/L	1.00	5	BAJ	09/08/24	1302	2665212	4
Magnesium		132	0.0500	0.150	mg/L	1.00	5					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/07/24	1813	2665212	5
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium		0.394	0.00335	0.0200	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		132	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Lithium	J	0.0180	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.415	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		37.7	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Iron		1470	3.30	10.0	mg/L	1.00	100	BAJ	09/16/24	1527	2665212	6
Sodium		972	8.00	25.0	mg/L	1.00	100					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4900	23.8	100	mg/L			KLP1	09/03/24	1531	2666209	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		6.00	0.725	2.00	mg/L			JW2	08/30/24	1102	2665390	8
Bicarbonate alkalinity (CaCO3)		6.00	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	683401001	Client ID:	GPCC001

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

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	683401002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 15:34		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3290	33.5	100	mg/L		500	CH6	08/30/24	0034	2664760	1
Sulfate		348	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1251	2665343	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.618	0.0260	0.0750	mg/L	1.00	5	BAJ	09/08/24	1317	2665212	3
Magnesium		233	0.0500	0.150	mg/L	1.00	5					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/07/24	1835	2665212	4
Arsenic		0.111	0.0100	0.0250	mg/L	1.00	5					
Barium		0.0902	0.00335	0.0200	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		129	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		71.2	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5	BAJ	09/16/24	1600	2665212	5
Sodium		1800	8.00	25.0	mg/L	1.00	100	BAJ	09/16/24	1533	2665212	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/24	1833	2665212	7
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium		0.0534	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.145	0.00100	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5380	23.8	100	mg/L			KLP1	09/03/24	1531	2666209	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		305	0.725	2.00	mg/L			JW2	08/30/24	1105	2665390	9
Bicarbonate alkalinity (CaCO3)		305	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	683401002	Client ID:	GPCC001

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

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Company :	Georgia Power Company
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Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	683401003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 14:10		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4360	33.5	100	mg/L		500	CH6	08/30/24	0104	2664760	1
Sulfate		526	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1252	2665343	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Magnesium		283	0.250	0.750	mg/L	1.00	25	BAJ	09/08/24	1335	2665212	3
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/07/24	1841	2665212	4
Arsenic	J	0.0131	0.0100	0.0250	mg/L	1.00	5					
Barium		0.687	0.00335	0.0200	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		176	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Lithium	J	0.0310	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.279	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		82.3	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Sodium		2340	8.00	25.0	mg/L	1.00	100	BAJ	09/16/24	1534	2665212	5
Boron		0.656	0.0260	0.0750	mg/L	1.00	5	BAJ	09/08/24	1333	2665212	6
Iron	J	0.446	0.165	0.500	mg/L	1.00	5	BAJ	09/16/24	1601	2665212	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8320	23.8	100	mg/L			KLP1	09/03/24	1531	2666209	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		231	0.725	2.00	mg/L			JW2	08/30/24	1108	2665390	9
Bicarbonate alkalinity (CaCO3)		231	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	683401003	Client ID:	GPCC001

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

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	683401004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 10:12		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4090	33.5	100	mg/L		500	CH6	08/30/24	0135	2664760	1
Sulfate		499	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1254	2665343	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Sodium		2380	8.00	25.0	mg/L	1.00	100	BAJ	09/16/24	1535	2665212	3
Iron		3.11	0.165	0.500	mg/L	1.00	5	BAJ	09/16/24	1602	2665212	4
Boron		0.554	0.0260	0.0750	mg/L	1.00	5	BAJ	09/08/24	1318	2665212	5
Magnesium		245	0.0500	0.150	mg/L	1.00	5					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/07/24	1847	2665212	6
Arsenic	J	0.0101	0.0100	0.0250	mg/L	1.00	5					
Barium		0.582	0.00335	0.0200	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		167	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Lithium	J	0.0210	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.248	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		71.3	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6620	23.8	100	mg/L			KLP1	09/03/24	1531	2666209	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		208	0.725	2.00	mg/L			JW2	08/30/24	1110	2665390	8
Bicarbonate alkalinity (CaCO3)		208	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	683401004	Client ID:	GPCC001

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

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	683401005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 15:10		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4030	33.5	100	mg/L		500	CH6	08/30/24	0206	2664760	1
Sulfate		464	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1255	2665343	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		128	3.30	10.0	mg/L	1.00	100	BAJ	09/16/24	1536	2665212	3
Sodium		2270	8.00	25.0	mg/L	1.00	100					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/07/24	1852	2665212	4
Arsenic	J	0.0226	0.0100	0.0250	mg/L	1.00	5					
Barium		0.344	0.00335	0.0200	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		164	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Lithium	J	0.0305	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.379	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	J	0.00159	0.00100	0.00500	mg/L	1.00	5					
Potassium		66.1	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Boron		0.586	0.0260	0.0750	mg/L	1.00	5	BAJ	09/08/24	1319	2665212	5
Magnesium		216	0.0500	0.150	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6820	23.8	100	mg/L			KLP1	09/03/24	1531	2666209	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		145	0.725	2.00	mg/L			JW2	08/30/24	1111	2665390	7
Bicarbonate alkalinity (CaCO3)		145	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	683401005	Client ID:	GPCC001

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

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	683401006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 11:46		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4280	33.5	100	mg/L		500	CH6	08/30/24	0237	2664760	1
Sulfate		478	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1300	2665343	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/07/24	1904	2665212	3
Arsenic		0.0385	0.0100	0.0250	mg/L	1.00	5					
Barium		0.341	0.00335	0.0200	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		169	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Lithium	J	0.0397	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.194	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		79.8	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Sodium		2390	8.00	25.0	mg/L	1.00	100	BAJ	09/16/24	1537	2665212	4
Iron		0.552	0.165	0.500	mg/L	1.00	5	BAJ	09/16/24	1603	2665212	5
Magnesium		303	0.250	0.750	mg/L	1.00	25	BAJ	09/08/24	1337	2665212	6
Boron		0.631	0.0260	0.0750	mg/L	1.00	5	BAJ	09/08/24	1336	2665212	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7650	23.8	100	mg/L			KLP1	09/03/24	1531	2666209	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		252	0.725	2.00	mg/L			JW2	08/30/24	1113	2665390	9
Bicarbonate alkalinity (CaCO3)		252	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	683401006	Client ID:	GPCC001

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

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	683401007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 16:30		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2690	33.5	100	mg/L		500	CH6	08/30/24	0410	2664760	1
Sulfate		310	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1302	2665343	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/07/24	1909	2665212	3
Arsenic		0.151	0.0100	0.0250	mg/L	1.00	5					
Barium		0.0813	0.00335	0.0200	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		100	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Molybdenum	J	0.00244	0.00100	0.00500	mg/L	1.00	5					
Potassium		65.5	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/24	1907	2665212	4
Chromium	J	0.00407	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000300	0.000300	0.00100	mg/L	1.00	1					
Lithium		0.0428	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.105	0.00100	0.00500	mg/L	1.00	1					
Sodium		1730	8.00	25.0	mg/L	1.00	100	BAJ	09/16/24	1538	2665212	5
Boron		0.777	0.0260	0.0750	mg/L	1.00	5	BAJ	09/08/24	1321	2665212	6
Magnesium		170	0.0500	0.150	mg/L	1.00	5					
Iron		5.47	0.165	0.500	mg/L	1.00	5	BAJ	09/16/24	1604	2665212	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4570	23.8	100	mg/L			KLP1	09/03/24	1531	2666209	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		321	0.725	2.00	mg/L			JW2	08/30/24	1114	2665390	9
Bicarbonate alkalinity (CaCO3)		321	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	683401007	Client ID:	GPCC001

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

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	683401008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 10:22		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2340	33.5	100	mg/L		500	CH6	08/30/24	0440	2664760	1
Sulfate		111	1.33	4.00	mg/L		10	CH6	08/30/24	2213	2664760	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1304	2665343	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Barium		0.0590	0.000670	0.00400	mg/L	1.00	1	BAJ	09/07/24	1912	2665212	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000315	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0315	0.00300	0.0100	mg/L	1.00	1					
Potassium		26.8	0.0800	0.300	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		334	0.800	2.50	mg/L	1.00	10	BAJ	09/16/24	1544	2665212	5
Iron		1210	3.30	10.0	mg/L	1.00	100	BAJ	09/16/24	1539	2665212	6
Boron		0.354	0.0260	0.0750	mg/L	1.00	5	BAJ	09/08/24	1322	2665212	7
Magnesium		99.3	0.0500	0.150	mg/L	1.00	5					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/07/24	1915	2665212	8
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		153	0.400	1.00	mg/L	1.00	5					
Manganese		1.53	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		3080	23.8	100	mg/L			KLP1	09/03/24	1531	2666209	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		28.0	0.725	2.00	mg/L			JW2	08/30/24	1116	2665390	10
Bicarbonate alkalinity (CaCO3)		28.0	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	683401008	Client ID:	GPCC001

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

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	683401009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 12:00		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		105	1.33	4.00	mg/L		10	CH6	08/30/24	2244	2664760	1
Chloride		2320	33.5	100	mg/L		500	CH6	08/30/24	0511	2664760	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1305	2665343	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Sodium		333	0.800	2.50	mg/L	1.00	10	BAJ	09/16/24	1545	2665212	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/07/24	1924	2665212	5
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium		0.0325	0.00300	0.0100	mg/L	1.00	1					
Potassium		26.7	0.0800	0.300	mg/L	1.00	1					
Boron		0.348	0.0260	0.0750	mg/L	1.00	5	BAJ	09/08/24	1324	2665212	6
Magnesium		100	0.0500	0.150	mg/L	1.00	5					
Iron		1210	3.30	10.0	mg/L	1.00	100	BAJ	09/16/24	1540	2665212	7
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/07/24	1927	2665212	8
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium		0.0595	0.00335	0.0200	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		152	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Manganese		1.54	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		3380	23.8	100	mg/L			KLP1	09/03/24	1531	2666209	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		14.5	0.725	2.00	mg/L			JW2	08/30/24	1118	2665390	10
Bicarbonate alkalinity (CaCO3)		14.5	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	683401009	Client ID:	GPCC001

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

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	683401010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	27-AUG-24 17:30		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	08/30/24	0542	2664760	1
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1307	2665343	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1259	2665212	3
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	09/16/24	1525	2665212	4
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1929	2665212	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	5.00	2.38	10.0	mg/L			KLP1	09/03/24	1531	2666209	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/30/24	1119	2665390	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	683401010	Client ID:	GPCC001

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

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	683401011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	27-AUG-24 17:36		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	08/30/24	0613	2664760	1
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1309	2665343	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/08/24	1301	2665212	3
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/07/24	1935	2665212	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	09/16/24	1526	2665212	5
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	5.00	2.38	10.0	mg/L			KLP1	09/03/24	1531	2666209	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	08/30/24	1121	2665390	7
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	683401011	Client ID:	GPCC001

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

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1510	2665211
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: September 23, 2024

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

Contact: **Kristen Jurinko**

Workorder: **683401**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2664760										
QC1205840176 683390005 DUP										
Chloride		4.09		4.08	mg/L	0.414		(0%-20%)	CH6	08/29/24 21:59
Sulfate		201		201	mg/L	0.189		(0%-20%)		08/30/24 08:17
QC1205839267 LCS										
Chloride	5.00			4.91	mg/L		98.3	(90%-110%)		08/29/24 14:32
Sulfate	10.0			9.59	mg/L		95.9	(90%-110%)		
QC1205839266 MB										
Chloride			U	ND	mg/L					08/29/24 14:01
Sulfate			U	ND	mg/L					
QC1205840177 683390005 PS										
Chloride	5.00	4.09		9.56	mg/L		109	(90%-110%)		08/29/24 22:30
Sulfate	10.0	10.1		20.2	mg/L		102	(90%-110%)		08/30/24 08:47
Metals Analysis - ICPMS										
Batch 2665212										
QC1205840136 LCS										
Antimony	0.0500			0.0506	mg/L		101	(80%-120%)	BAJ	09/07/24 17:50
Arsenic	0.0500			0.0502	mg/L		100	(80%-120%)		
Barium	0.0500			0.0509	mg/L		102	(80%-120%)		

QC Summary

Workorder: **683401**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665212										
Beryllium	0.0500			0.0559	mg/L		112	(80%-120%)	BAJ	09/07/24 17:50
Boron	0.100			0.102	mg/L		102	(80%-120%)		09/08/24 12:58
Cadmium	0.0500			0.0506	mg/L		101	(80%-120%)		09/07/24 17:50
Calcium	2.00			2.07	mg/L		104	(80%-120%)		
Chromium	0.0500			0.0497	mg/L		99.4	(80%-120%)		
Cobalt	0.0500			0.0497	mg/L		99.4	(80%-120%)		
Iron	2.00			2.16	mg/L		108	(80%-120%)		09/16/24 15:24
Lead	0.0500			0.0492	mg/L		98.5	(80%-120%)		09/07/24 17:50
Lithium	0.0500			0.0530	mg/L		106	(80%-120%)		
Magnesium	2.00			2.12	mg/L		106	(80%-120%)		09/08/24 12:58
Manganese	0.0500			0.0498	mg/L		99.7	(80%-120%)		09/07/24 17:50
Molybdenum	0.0500			0.0515	mg/L		103	(80%-120%)		
Potassium	2.00			1.99	mg/L		99.5	(80%-120%)		
Selenium	0.0500			0.0510	mg/L		102	(80%-120%)		

QC Summary

Workorder: **683401**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665212										
Sodium	2.00			2.37	mg/L		118	(80%-120%)	BAJ	09/16/24 15:24
Thallium	0.0500			0.0473	mg/L		94.6	(80%-120%)		09/07/24 17:50
QC1205840135 MB										
Antimony			U	ND	mg/L					09/07/24 17:47
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					09/08/24 12:57
Cadmium			U	ND	mg/L					09/07/24 17:47
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					09/16/24 15:23
Lead			U	ND	mg/L					09/07/24 17:47
Lithium			U	ND	mg/L					

QC Summary

Workorder: **683401**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665212											
Magnesium				U	ND	mg/L				BAJ	09/08/24 12:57
Manganese				U	ND	mg/L					09/07/24 17:47
Molybdenum				U	ND	mg/L					
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					09/16/24 15:23
Thallium				U	ND	mg/L					09/07/24 17:47
QC1205840137 683401001 MS											
Antimony	0.0500	U	ND		0.0500	mg/L		99.8	(75%-125%)		09/07/24 18:16
Arsenic	0.0500	U	ND		0.0500	mg/L		97.7	(75%-125%)		
Barium	0.0500		0.394		0.436	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0507	mg/L		101	(75%-125%)		
Boron	0.100		0.293		0.392	mg/L		99	(75%-125%)		09/08/24 13:04
Cadmium	0.0500	U	ND		0.0475	mg/L		94.9	(75%-125%)		09/07/24 18:16
Calcium	2.00		132		134	mg/L		N/A	(75%-125%)		

QC Summary

Workorder: **683401**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665212											
Chromium	0.0500	U	ND		0.0488	mg/L		95.8	(75%-125%)	BAJ	09/07/24 18:16
Cobalt	0.0500	U	ND		0.0474	mg/L		94.6	(75%-125%)		
Iron	2.00		1470		1480	mg/L		N/A	(75%-125%)		09/16/24 15:28
Lead	0.0500	U	ND		0.0454	mg/L		90.6	(75%-125%)		09/07/24 18:16
Lithium	0.0500	J	0.0180		0.0696	mg/L		103	(75%-125%)		
Magnesium	2.00		132		133	mg/L		N/A	(75%-125%)		09/08/24 13:04
Manganese	0.0500		0.415		0.465	mg/L		N/A	(75%-125%)		09/07/24 18:16
Molybdenum	0.0500	U	ND		0.0536	mg/L		107	(75%-125%)		
Potassium	2.00		37.7		39.2	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0483	mg/L		93.5	(75%-125%)		
Sodium	2.00		972		964	mg/L		N/A	(75%-125%)		09/16/24 15:28
Thallium	0.0500	U	ND		0.0430	mg/L		86	(75%-125%)		09/07/24 18:16
QC1205840138 683401001 MSD											
Antimony	0.0500	U	ND		0.0485	mg/L	2.98	96.9	(0%-20%)		09/07/24 18:18
Arsenic	0.0500	U	ND		0.0486	mg/L	2.79	95	(0%-20%)		

QC Summary

Workorder: **683401**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665212											
Barium	0.0500		0.394		0.430	mg/L	1.21	N/A	(0%-20%)	BAJ	09/07/24 18:18
Beryllium	0.0500	U	ND		0.0492	mg/L	3.19	98.2	(0%-20%)		
Boron	0.100		0.293		0.385	mg/L	1.68	92.4	(0%-20%)		09/08/24 13:05
Cadmium	0.0500	U	ND		0.0464	mg/L	2.35	92.6	(0%-20%)		09/07/24 18:18
Calcium	2.00		132		130	mg/L	3.1	N/A	(0%-20%)		
Chromium	0.0500	U	ND		0.0472	mg/L	3.38	92.5	(0%-20%)		
Cobalt	0.0500	U	ND		0.0460	mg/L	3.05	91.8	(0%-20%)		
Iron	2.00		1470		1430	mg/L	3.39	N/A	(0%-20%)		09/16/24 15:29
Lead	0.0500	U	ND		0.0439	mg/L	3.26	87.7	(0%-20%)		09/07/24 18:18
Lithium	0.0500	J	0.0180		0.0682	mg/L	2.02	100	(0%-20%)		
Magnesium	2.00		132		131	mg/L	1.81	N/A	(0%-20%)		09/08/24 13:05
Manganese	0.0500		0.415		0.447	mg/L	3.95	N/A	(0%-20%)		09/07/24 18:18
Molybdenum	0.0500	U	ND		0.0520	mg/L	2.85	104	(0%-20%)		
Potassium	2.00		37.7		38.6	mg/L	1.51	N/A	(0%-20%)		

QC Summary

Workorder: **683401**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2665212												
Selenium	0.0500	U	ND		0.0503	mg/L	4.08	97.6	(0%-20%)	BAJ	09/07/24	18:18
Sodium	2.00		972		945	mg/L	1.94	N/A	(0%-20%)		09/16/24	15:29
Thallium	0.0500	U	ND		0.0418	mg/L	2.77	83.6	(0%-20%)		09/07/24	18:18
QC1205840139 683401001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/24	18:24
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium			78.9		16.6	ug/L	5.08		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Boron			58.5	J	14.8	ug/L	26.3		(0%-20%)		09/08/24	13:08
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/24	18:24
Calcium			26500		5390	ug/L	1.91		(0%-20%)			
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Iron			14700		2980	ug/L	1.52		(0%-20%)		09/16/24	15:30
Lead		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/24	18:24

QC Summary

Workorder: **683401**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665212										
Lithium	J	3.60	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/07/24 18:24
Magnesium		26300		5780	ug/L	9.78		(0%-20%)		09/08/24 13:08
Manganese		83.1		17.4	ug/L	4.84		(0%-20%)		09/07/24 18:24
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Potassium		7550		1530	ug/L	1.38		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		9720		1930	ug/L	.726		(0%-20%)		09/16/24 15:30
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/07/24 18:24
Metals Analysis-Mercury										
Batch 2665343										
QC1205840376 683401001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/03/24 12:44
QC1205840375 LCS										
Mercury 0.00200				0.00201	mg/L		101	(80%-120%)		09/03/24 12:41
QC1205840374 MB										
Mercury			U	ND	mg/L					09/03/24 12:36
QC1205840377 683401001 MS										
Mercury 0.00200	U	ND		0.00195	mg/L		95.7	(75%-125%)		09/03/24 12:46

QC Summary

Workorder: **683401**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2665343										
QC1205840378 683401001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)	JP2	09/03/24 12:47
Solids Analysis										
Batch 2666209										
QC1205842574 683236002 DUP										
Total Dissolved Solids		238		236	mg/L	0.844		(0%-5%)	KLP1	09/03/24 15:31
QC1205842572 LCS										
Total Dissolved Solids	300			298	mg/L		99.3	(95%-105%)		09/03/24 15:31
QC1205842571 MB										
Total Dissolved Solids			U	ND	mg/L					09/03/24 15:31
Titration and Ion Analysis										
Batch 2665390										
QC1205840553 683401001 DUP										
Alkalinity, Total as CaCO3		6.00		5.00	mg/L	18.2	^	(+/-2.00)	JW2	08/30/24 11:03
Bicarbonate alkalinity (CaCO3)		6.00		5.00	mg/L	18.2	^	(+/-2.00)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1205840554 683401008 DUP										
Alkalinity, Total as CaCO3		28.0		27.5	mg/L	1.8		(0%-20%)		08/30/24 11:17
Bicarbonate alkalinity (CaCO3)		28.0		27.5	mg/L	1.8		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1205840485 LCS										
Alkalinity, Total as CaCO3	50.0			51.0	mg/L		102	(90%-110%)		08/30/24 10:59

QC Summary

Workorder: **683401**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2665390											
QC1205840486 LCS											
Alkalinity, Total as CaCO3	15.0			15.0	mg/L		100	(90%-110%)	JW2	08/30/24	11:01
QC1205840555 683401001 MS											
Alkalinity, Total as CaCO3	50.0	6.00		58.0	mg/L		104	(80%-120%)		08/30/24	11:04
QC1205840556 683401008 MS											
Alkalinity, Total as CaCO3	50.0	28.0		79.0	mg/L		102	(80%-120%)		08/30/24	11:17

Notes:

The Qualifiers in this report are defined as follows:

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

QC Summary

Workorder: **683401**

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

B The target analyte was detected in the associated blank.

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

J See case narrative for an explanation

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

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

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2665212

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2665211

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

GEL Sample ID#	Client Sample Identification
683401001	MCM-INW-01
683401002	MCM-MCM-06
683401003	MCM-PT-01
683401004	MCM-PT-02
683401005	MCM-PT-03
683401006	MCM-DR-01
683401007	MCM-DR-02
683401008	MCM-DR-03
683401009	MCM-AP1-FD-01
683401010	MCM-AP1-FB-01
683401011	MCM-AP1-EB-01
1205840135	Method Blank (MB)**ICP-MS**
1205840136	Laboratory Control Sample (LCS)
1205840139	683401001(MCM-INW-01L) Serial Dilution (SD)
1205840137	683401001(MCM-INW-01S) Matrix Spike (MS)
1205840138	683401001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

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

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 683401001 (MCM-INW-01), 683401002

(MCM-MCM-06), 683401003 (MCM-PT-01), 683401004 (MCM-PT-02), 683401005 (MCM-PT-03), 683401006 (MCM-DR-01), 683401007 (MCM-DR-02), 683401008 (MCM-DR-03) and 683401009 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 683401001 (MCM-INW-01), 683401002 (MCM-MCM-06), 683401003 (MCM-PT-01), 683401004 (MCM-PT-02), 683401005 (MCM-PT-03), 683401006 (MCM-DR-01), 683401007 (MCM-DR-02), 683401008 (MCM-DR-03) and 683401009 (MCM-AP1-FD-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	683401								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Antimony	5X	5X	5X	5X	5X	5X	5X	5X	5X
Arsenic	5X	5X	5X	5X	5X	5X	5X	5X	5X
Barium	5X	5X	5X	5X	5X	5X	5X	1X	5X
Beryllium	5X	1X	5X	5X	5X	5X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Calcium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Chromium	5X	1X	5X	5X	5X	5X	1X	1X	1X
Cobalt	5X	1X	5X	5X	5X	5X	1X	1X	1X
Iron	100X	5X	5X	5X	100X	5X	5X	100X	100X
Lead	5X	5X	5X	5X	5X	5X	5X	1X	5X
Lithium	5X	1X	5X	5X	5X	5X	1X	1X	1X
Magnesium	5X	5X	25X	5X	5X	25X	5X	5X	5X
Manganese	5X	1X	5X	5X	5X	5X	1X	5X	5X
Molybdenum	5X	5X	5X	5X	5X	5X	5X	5X	5X
Potassium	5X	5X	5X	5X	5X	5X	5X	1X	1X
Selenium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Sodium	100X	100X	100X	100X	100X	100X	100X	10X	10X
Thallium	5X	5X	5X	5X	5X	5X	5X	1X	5X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2665343

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2665342

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

GEL Sample ID#	Client Sample Identification
683401001	MCM-INW-01
683401002	MCM-MCM-06
683401003	MCM-PT-01
683401004	MCM-PT-02
683401005	MCM-PT-03

683401006	MCM-DR-01
683401007	MCM-DR-02
683401008	MCM-DR-03
683401009	MCM-AP1-FD-01
683401010	MCM-AP1-FB-01
683401011	MCM-AP1-EB-01
1205840374	Method Blank (MB)**CVAA**
1205840375	Laboratory Control Sample (LCS)
1205840378	683401001(MCM-INW-01L) Serial Dilution (SD)
1205840376	683401001(MCM-INW-01D) Sample Duplicate (DUP)
1205840377	683401001(MCM-INW-01S) Matrix Spike (MS)

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

Data Summary:

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

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2664760

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

GEL Sample ID#	Client Sample Identification
683401001	MCM-INW-01
683401002	MCM-MCM-06
683401003	MCM-PT-01
683401004	MCM-PT-02
683401005	MCM-PT-03
683401006	MCM-DR-01
683401007	MCM-DR-02
683401008	MCM-DR-03
683401009	MCM-AP1-FD-01
683401010	MCM-AP1-FB-01
683401011	MCM-AP1-EB-01
1205839266	Method Blank (MB)
1205839267	Laboratory Control Sample (LCS)
1205840176	683390005(NonSDG) Sample Duplicate (DUP)
1205840177	683390005(NonSDG) Post Spike (PS)

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

Data Summary:

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

Technical Information

Sample Dilutions
The following samples 683401001 (MCM-INW-01), 683401008 (MCM-DR-03) and 683401009 (MCM-AP1-FD-01) were diluted because target analyte concentrations exceeded the calibration range. Samples 683401001 (MCM-INW-01), 683401002 (MCM-MCM-06), 683401003 (MCM-PT-01), 683401004 (MCM-PT-02), 683401005 (MCM-PT-03), 683401006 (MCM-DR-01), 683401007 (MCM-DR-02), 683401008 (MCM-DR-03) and 683401009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	683401								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	500X	500X	500X	500X	500X	500X	500X	500X
Sulfate	20X	500X	500X	500X	500X	500X	500X	10X	10X

Miscellaneous Information

Manual Integrations
Samples 1205840176 (Non SDG 683390005DUP) and 1205840177 (Non SDG 683390005PS) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2666209

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

GEL Sample ID#	Client Sample Identification
683401001	MCM-INW-01
683401002	MCM-MCM-06
683401003	MCM-PT-01
683401004	MCM-PT-02
683401005	MCM-PT-03
683401006	MCM-DR-01
683401007	MCM-DR-02
683401008	MCM-DR-03
683401009	MCM-AP1-FD-01
683401010	MCM-AP1-FB-01
683401011	MCM-AP1-EB-01
1205842571	Method Blank (MB)
1205842572	Laboratory Control Sample (LCS)
1205842574	683236002(NonSDG) Sample Duplicate (DUP)

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

Data Summary:

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

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 683401001 (MCM-INW-01), 683401002 (MCM-MCM-06), 683401003 (MCM-PT-01), 683401004 (MCM-PT-02), 683401005 (MCM-PT-03), 683401006 (MCM-DR-01), 683401007 (MCM-DR-02), 683401008 (MCM-DR-03) and 683401009 (MCM-AP1-FD-01).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2665390

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

GEL Sample ID#	Client Sample Identification
683401001	MCM-INW-01
683401002	MCM-MCM-06
683401003	MCM-PT-01
683401004	MCM-PT-02
683401005	MCM-PT-03
683401006	MCM-DR-01
683401007	MCM-DR-02
683401008	MCM-DR-03
683401009	MCM-AP1-FD-01
683401010	MCM-AP1-FB-01
683401011	MCM-AP1-EB-01
1205840485	Laboratory Control Sample (LCS)
1205840486	Laboratory Control Sample (LCS)
1205840553	683401001(MCM-INW-01) Sample Duplicate (DUP)
1205840554	683401008(MCM-DR-03) Sample Duplicate (DUP)
1205840555	683401001(MCM-INW-01) Matrix Spike (MS)
1205840556	683401008(MCM-DR-03) Matrix Spike (MS)

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

Data Summary:

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

Certification Statement

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

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager:** ~~Erin Trent~~ Alissa Pinnick

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

683401
683403

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 1-Week Sampling August 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (Resolute Environmental) Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list	Dissolved Metals* (6020B) - see list	Cl, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	NI	NI					<-- Preservative Type (6)
MCM-INW-01	8/27/24	1212	G	Y*	WG				X	X	X	X	X							Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl
MCM-MCM-06	8/28/24	1534	G	Y*	WG				X	X	X	X	X							
MCM-PT-01	8/28/24	1410	G	Y*	WG				X	X	X	X	X							
MCM-PT-02	8/28/24	1012	G	Y*	WG				X	X	X	X	X							** Build Total $
MCM-PT-03	8/27/24	1510	G	Y*	WG				X	X	X	X	X							Dissolved Metals
MCM-DR-01	8/28/24	1146	G	Y*	WG				X	X	X	X	X							
MCM-DR-02	8/27/24	1630	G	Y*	WG				X	X	X	X	X							
MCM-DR-03	8/27/24	1022	G	Y*	WG				X	X	X	X	X							
MCM-AP1-FD-01	8/27/24	—	FD	Y*	WG				X	X	X	X	X							
MCM-AP1-FB-01	8/27/24	1730	FB	N	WQ				X		X	X	X							

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
Resolute Environmental	8/29/24	1420	1 Stacy B	8/29/24	14:20
			2		
			3		

TAT Requested: Normal: ___X__ Rush: ~~X~~ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

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

Additional Remarks: **Task Code: MCM-CCR-CA-20240826**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No **Cooler Temp:** 0 °C

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

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

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

Dissolved metals are the only Field Filterd Samples

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: ~~Erin Trent~~ Andrea Purvis

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

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 1-Week Sampling August 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)					<-- Preservative Type (6)
MCM-AP1-EB-01	8/27/24	1736	EB	N	WQ				X		X	X	X					Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time		Received by (signed)	Date	Time
1	[signature] Resolute Environmental	8/28/24	[illegible]	1	[signature]	8/29/24	14:20
2				2			
3				3			

TAT Requested: Normal: __X__ Rush: ~~__X__~~ **Specify:** _____ **(Subject to Surcharge**

Fax Results: [ ] Yes [ ] No

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

Additional Remarks: **Task Code: MCM-CCR-CA-20240826**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

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

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

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

Dissolved metals are the only Field Filterd Samples

683401
683403
683406 AP

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: PCC	**SDG/AR/COC/Work Order:**
Received By: CLM	**Date Received:** 8/29/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 - 0° 2 - 0°

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

	Sample Receipt Criteria	Yes	NA	No	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?			✓	Circle Applicable: (No container count on COC) Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date AUG 30 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 23 September 2024

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

GEL Laboratories LLC
a member of The GEL Group INC

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

September 23, 2024

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

Re: Plant McManus CCR Groundwater Compliance Week 1
Work Order: 683403

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 29, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 683403 in the left-hand footer of the data report. Revision 01 includes the addition of Iron and Sodium results to the final package.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
683403001	MCM-INW-01	Ground Water	08/27/24 12:12	08/29/24 14:20
683403002	MCM-MCM-06	Ground Water	08/28/24 15:34	08/29/24 14:20
683403003	MCM-PT-01	Ground Water	08/28/24 14:10	08/29/24 14:20
683403004	MCM-PT-02	Ground Water	08/28/24 10:12	08/29/24 14:20
683403005	MCM-PT-03	Ground Water	08/27/24 15:10	08/29/24 14:20
683403006	MCM-DR-01	Ground Water	08/28/24 11:46	08/29/24 14:20
683403007	MCM-DR-02	Ground Water	08/27/24 16:30	08/29/24 14:20
683403008	MCM-DR-03	Ground Water	08/27/24 10:22	08/29/24 14:20
683403009	MCM-AP1-FD-01	Ground Water	08/27/24 12:00	08/29/24 14:20

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

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	16-SEP-2024
SW846 3005A	30-AUG-2024
SW846 7470A Prep	30-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	10-SEP-2024
SW846 3005A/6020B	17-SEP-2024
SW846 7470A	03-SEP-2024

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

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 683403 GEL Work Order: 683403

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

J Value is estimated

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

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

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

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

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

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	683403001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 12:12		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1310	2665343	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	PRB	09/10/24	0146	2665214	2
Barium		0.358	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0186	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.341	0.00100	0.00500	mg/L	1.00	1					
Potassium		37.1	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/10/24	0204	2665214	3
Boron		0.283	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		128	0.400	1.00	mg/L	1.00	5					
Magnesium		123	0.0500	0.150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Iron		1330	3.30	10.0	mg/L	1.00	100	PRB	09/17/24	1020	2672584	4
Sodium		838	8.00	25.0	mg/L	1.00	100					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672583
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1535	2665213

The following Analytical Methods were performed:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	683403001	Client ID:	GPCC001

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	683403002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 15:34		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1312	2665343	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron	J	0.0360	0.0330	0.100	mg/L	1.00	1	PRB	09/17/24	1050	2672584	2
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/10/24	0247	2665214	3
Arsenic		0.107	0.0100	0.0250	mg/L	1.00	5					
Boron		0.696	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		140	0.400	1.00	mg/L	1.00	5					
Magnesium		238	0.0500	0.150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		76.9	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		1560	8.00	25.0	mg/L	1.00	100	PRB	09/17/24	1032	2672584	4
Barium		0.0907	0.000670	0.00400	mg/L	1.00	1	PRB	09/10/24	0229	2665214	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0615	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.164	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672583
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1535	2665213

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	683403002	Client ID:	GPCC001

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

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	683403003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 14:10		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1314	2665343	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		0.106	0.0330	0.100	mg/L	1.00	1	PRB	09/17/24	1052	2672584	2
Sodium		2140	8.00	25.0	mg/L	1.00	100	PRB	09/17/24	1033	2672584	3
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/10/24	0255	2665214	4
Arsenic	J	0.0141	0.0100	0.0250	mg/L	1.00	5					
Barium		0.661	0.00335	0.0200	mg/L	1.00	5					
Boron		0.759	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		180	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		88.1	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Magnesium		274	0.100	0.300	mg/L	1.00	10	PRB	09/10/24	0258	2665214	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/24	0233	2665214	6
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium		0.0381	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.274	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1535	2665213
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672583

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	683403003	Client ID:	GPCC001

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

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	683403004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 10:12		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1315	2665343	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/24	0236	2665214	2
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium		0.0253	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.261	0.00100	0.00500	mg/L	1.00	1					
Magnesium		254	0.100	0.300	mg/L	1.00	10	PRB	09/10/24	0313	2665214	3
Sodium		2070	8.00	25.0	mg/L	1.00	100	PRB	09/17/24	1035	2672584	4
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/10/24	0309	2665214	5
Arsenic	J	0.0107	0.0100	0.0250	mg/L	1.00	5					
Barium		0.585	0.00335	0.0200	mg/L	1.00	5					
Boron		0.589	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		171	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		73.8	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Iron		2.59	0.0330	0.100	mg/L	1.00	1	PRB	09/17/24	1054	2672584	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1535	2665213
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672583
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	683403004	Client ID:	GPCC001

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

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	683403005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 15:10		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1320	2665343	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		127	3.30	10.0	mg/L	1.00	100	PRB	09/17/24	1037	2672584	2
Sodium		1850	8.00	25.0	mg/L	1.00	100					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/10/24	0240	2665214	3
Arsenic		0.00747	0.00200	0.00500	mg/L	1.00	1					
Barium		0.319	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0333	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.425	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00148	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.573	0.0260	0.0750	mg/L	1.00	5	PRB	09/10/24	0316	2665214	4
Calcium		165	0.400	1.00	mg/L	1.00	5					
Magnesium		209	0.0500	0.150	mg/L	1.00	5					
Potassium		65.4	0.400	1.50	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672583
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1535	2665213
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

The following Analytical Methods were performed:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	683403005	Client ID:	GPCC001

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	683403006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	28-AUG-24 11:46		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1322	2665343	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		0.214	0.0330	0.100	mg/L	1.00	1	PRB	09/17/24	1056	2672584	2
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/10/24	0244	2665214	3
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium		0.0462	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.176	0.00100	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/10/24	0324	2665214	4
Arsenic		0.0400	0.0100	0.0250	mg/L	1.00	5					
Barium		0.280	0.00335	0.0200	mg/L	1.00	5					
Boron		0.659	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		155	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		76.1	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Sodium		2150	8.00	25.0	mg/L	1.00	100	PRB	09/17/24	1039	2672584	5
Magnesium		273	0.100	0.300	mg/L	1.00	10	PRB	09/10/24	0327	2665214	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1535	2665213
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672583
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	683403006	Client ID:	GPCC001

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

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	683403007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 16:30		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1323	2665343	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/10/24	0352	2665214	2
Boron		0.811	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		99.8	0.400	1.00	mg/L	1.00	5					
Magnesium		167	0.0500	0.150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		65.1	0.400	1.50	mg/L	1.00	5					
Arsenic		0.0571	0.00200	0.00500	mg/L	1.00	1	PRB	09/10/24	0331	2665214	3
Barium		0.0758	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0527	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.0890	0.00100	0.00500	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		1510	8.00	25.0	mg/L	1.00	100	PRB	09/17/24	1041	2672584	4
Iron	J	0.0707	0.0330	0.100	mg/L	1.00	1	PRB	09/17/24	1058	2672584	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672583
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1535	2665213
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	683403007	Client ID:	GPCC001

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

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	683403008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 10:22		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1325	2665343	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.314	0.0260	0.0750	mg/L	1.00	5	PRB	09/10/24	0400	2665214	2
Calcium		149	0.400	1.00	mg/L	1.00	5					
Magnesium		93.9	0.0500	0.150	mg/L	1.00	5					
Manganese		1.46	0.00500	0.0250	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/10/24	0334	2665214	3
Arsenic	J	0.00450	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0522	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0364	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000678	0.000200	0.00100	mg/L	1.00	1					
Potassium		27.6	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Iron		1080	3.30	10.0	mg/L	1.00	100	PRB	09/17/24	1043	2672584	4
Sodium		298	8.00	25.0	mg/L	1.00	100					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672583
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1535	2665213

The following Analytical Methods were performed:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	683403008	Client ID:	GPCC001

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	683403009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	27-AUG-24 12:00		
Receive Date:	29-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/03/24	1327	2665343	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		1120	3.30	10.0	mg/L	1.00	100	PRB	09/17/24	1045	2672584	2
Sodium		314	8.00	25.0	mg/L	1.00	100					
Boron		0.307	0.0260	0.0750	mg/L	1.00	5	PRB	09/10/24	0403	2665214	3
Calcium		147	0.400	1.00	mg/L	1.00	5					
Magnesium		92.0	0.0500	0.150	mg/L	1.00	5					
Manganese		1.44	0.00500	0.0250	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/10/24	0338	2665214	4
Arsenic	J	0.00444	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0524	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0361	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000691	0.000200	0.00100	mg/L	1.00	1					
Potassium		27.9	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/30/24	1535	2665213
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672583
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/30/24	1100	2665342

The following Analytical Methods were performed:

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

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Certificate of Analysis

Report Date: September 23, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceWeek 1

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	683403009	Client ID:	GPCC001

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

Notes:

Column headers are defined as follows:

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

QC Summary

Report Date: September 23, 2024

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

Contact: **Kristen Jurinko**

Workorder: **683403**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2665214											
QC1205840141 LCS											
Antimony	0.0500			0.0507	mg/L		101	(80%-120%)	PRB	09/10/24	01:35
Arsenic	0.0500			0.0505	mg/L		101	(80%-120%)			
Barium	0.0500			0.0510	mg/L		102	(80%-120%)			
Beryllium	0.0500			0.0587	mg/L		117	(80%-120%)			
Boron	0.100			0.116	mg/L		116	(80%-120%)			
Cadmium	0.0500			0.0518	mg/L		104	(80%-120%)			
Calcium	2.00			2.16	mg/L		108	(80%-120%)			
Chromium	0.0500			0.0497	mg/L		99.4	(80%-120%)			
Cobalt	0.0500			0.0497	mg/L		99.4	(80%-120%)			
Lead	0.0500			0.0537	mg/L		107	(80%-120%)			
Lithium	0.0500			0.0550	mg/L		110	(80%-120%)			
Magnesium	2.00			2.12	mg/L		106	(80%-120%)			

QC Summary

Workorder: **683403**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665214										
Manganese	0.0500			0.0491	mg/L		98.2	(80%-120%)	PRB	09/10/24 01:35
Molybdenum	0.0500			0.0548	mg/L		110	(80%-120%)		
Potassium	2.00			2.03	mg/L		102	(80%-120%)		
Selenium	0.0500			0.0496	mg/L		99.3	(80%-120%)		
Thallium	0.0500			0.0482	mg/L		96.3	(80%-120%)		
QC1205840140 MB										
Antimony			U	ND	mg/L					09/10/24 01:31
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **683403**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665214										
Lead			U	ND	mg/L				PRB	09/10/24 01:31
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			J	0.000207	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205840142 683403001 MS										
Antimony	0.0500	U	ND	0.0504	mg/L		100	(75%-125%)		09/10/24 02:07
Arsenic	0.0500	U	ND	0.0445	mg/L		87.8	(75%-125%)		09/10/24 01:49
Barium	0.0500		0.358	0.405	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND	0.0503	mg/L		100	(75%-125%)		
Boron	0.100		0.283	0.372	mg/L		88.8	(75%-125%)		09/10/24 02:07
Cadmium	0.0500	U	ND	0.0477	mg/L		95.4	(75%-125%)		

QC Summary

Workorder: **683403**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665214											
Calcium	2.00		128		131	mg/L		N/A	(75%-125%)	PRB	09/10/24 02:07
Chromium	0.0500	U	ND		0.0482	mg/L		96.1	(75%-125%)		09/10/24 01:49
Cobalt	0.0500	U	ND		0.0467	mg/L		93.3	(75%-125%)		
Lead	0.0500	U	ND		0.0462	mg/L		92.3	(75%-125%)		
Lithium	0.0500		0.0186		0.0699	mg/L		103	(75%-125%)		
Magnesium	2.00		123		126	mg/L		N/A	(75%-125%)		09/10/24 02:07
Manganese	0.0500		0.341		0.386	mg/L		N/A	(75%-125%)		09/10/24 01:49
Molybdenum	0.0500	U	ND		0.0535	mg/L		107	(75%-125%)		09/10/24 02:07
Potassium	2.00		37.1		39.7	mg/L		N/A	(75%-125%)		09/10/24 01:49
Selenium	0.0500	U	ND		0.0413	mg/L		81.5	(75%-125%)		
Thallium	0.0500	U	ND		0.0431	mg/L		85.9	(75%-125%)		
QC1205840143 683403001 MSD											
Antimony	0.0500	U	ND		0.0517	mg/L	2.53	103	(0%-20%)		09/10/24 02:11
Arsenic	0.0500	U	ND		0.0442	mg/L	0.728	87.2	(0%-20%)		09/10/24 01:53
Barium	0.0500		0.358		0.413	mg/L	2.09	N/A	(0%-20%)		

QC Summary

Workorder: **683403**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2665214											
Beryllium	0.0500	U	ND		0.0483	mg/L	4.02	96.5	(0%-20%)	PRB	09/10/24 01:53
Boron	0.100		0.283		0.376	mg/L	1.03	92.7	(0%-20%)		09/10/24 02:11
Cadmium	0.0500	U	ND		0.0488	mg/L	2.19	97.5	(0%-20%)		
Calcium	2.00		128		135	mg/L	3.67	N/A	(0%-20%)		
Chromium	0.0500	U	ND		0.0473	mg/L	1.91	94.3	(0%-20%)		09/10/24 01:53
Cobalt	0.0500	U	ND		0.0462	mg/L	1.19	92.2	(0%-20%)		
Lead	0.0500	U	ND		0.0467	mg/L	1.14	93.4	(0%-20%)		
Lithium	0.0500		0.0186		0.0690	mg/L	1.35	101	(0%-20%)		
Magnesium	2.00		123		129	mg/L	2.95	N/A	(0%-20%)		09/10/24 02:11
Manganese	0.0500		0.341		0.382	mg/L	1.03	N/A	(0%-20%)		09/10/24 01:53
Molybdenum	0.0500	U	ND		0.0535	mg/L	0.00934	107	(0%-20%)		09/10/24 02:11
Potassium	2.00		37.1		39.6	mg/L	0.211	N/A	(0%-20%)		09/10/24 01:53
Selenium	0.0500	U	ND		0.0392	mg/L	5.19	77.3	(0%-20%)		
Thallium	0.0500	U	ND		0.0434	mg/L	0.604	86.5	(0%-20%)		

QC Summary

Workorder: **683403**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665214										
QC1205840144 683403001 SDILT										
Antimony	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/10/24 02:18
Arsenic	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/10/24 02:00
Barium		358		74.5	ug/L	4.07		(0%-20%)		
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron		56.6	J	9.88	ug/L	12.7		(0%-20%)		09/10/24 02:18
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Calcium		25600		4950	ug/L	3.36		(0%-20%)		
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/10/24 02:00
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		18.6	J	3.40	ug/L	8.53		(0%-20%)		
Magnesium		24700		4930	ug/L	.136		(0%-20%)		09/10/24 02:18
Manganese		341		68.6	ug/L	.668		(0%-20%)		09/10/24 02:00
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/10/24 02:18

QC Summary

Workorder: **683403**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2665214										
Potassium		37100		7370	ug/L	.636		(0%-20%)	PRB	09/10/24 02:00
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Batch 2672584										
QC1205855647 LCS										
Iron	2.00			2.09	mg/L		104	(80%-120%)	PRB	09/17/24 10:18
Sodium	2.00			2.28	mg/L		114	(80%-120%)		
QC1205855646 MB										
Iron			U	ND	mg/L					09/17/24 10:16
Sodium			U	ND	mg/L					
QC1205855648 683403001 MS										
Iron	2.00	1330		1320	mg/L		N/A	(75%-125%)		09/17/24 10:22
Sodium	2.00	838		839	mg/L		N/A	(75%-125%)		
QC1205855649 683403001 MSD										
Iron	2.00	1330		1280	mg/L	3.58	N/A	(0%-20%)		09/17/24 10:24
Sodium	2.00	838		804	mg/L	4.23	N/A	(0%-20%)		
QC1205855650 683403001 SDILT										
Iron		13300		2620	ug/L	1.23		(0%-20%)		09/17/24 10:26
Sodium		8380		1710	ug/L	1.9		(0%-20%)		

QC Summary

Workorder: **683403**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2665343										
QC1205840376 683401001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/03/24 12:44
QC1205840375 LCS										
Mercury	0.00200			0.00201	mg/L		101	(80%-120%)		09/03/24 12:41
QC1205840374 MB										
Mercury			U	ND	mg/L					09/03/24 12:36
QC1205840377 683401001 MS										
Mercury	0.00200 U	ND		0.00195	mg/L		95.7	(75%-125%)		09/03/24 12:46
QC1205840378 683401001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/03/24 12:47

Notes:

The Qualifiers in this report are defined as follows:

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

QC Summary

Workorder: **683403**

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

N1 See case narrative

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

J See case narrative for an explanation

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

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

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 683403

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2665214

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2665213

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

GEL Sample ID#	Client Sample Identification
683403001	MCM-INW-01
683403002	MCM-MCM-06
683403003	MCM-PT-01
683403004	MCM-PT-02
683403005	MCM-PT-03
683403006	MCM-DR-01
683403007	MCM-DR-02
683403008	MCM-DR-03
683403009	MCM-AP1-FD-01
1205840140	Method Blank (MB)**ICP-MS**
1205840141	Laboratory Control Sample (LCS)
1205840144	683403001(MCM-INW-01L) Serial Dilution (SD)
1205840142	683403001(MCM-INW-01S) Matrix Spike (MS)
1205840143	683403001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

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

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 683403001 (MCM-INW-01), 683403002 (MCM-MCM-06), 683403003 (MCM-PT-01), 683403004 (MCM-PT-02), 683403005 (MCM-PT-03), 683403006 (MCM-DR-01), 683403007 (MCM-DR-02), 683403008 (MCM-DR-03) and 683403009 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the

SOP, samples 683403001 (MCM-INW-01), 683403002 (MCM-MCM-06), 683403003 (MCM-PT-01), 683403004 (MCM-PT-02), 683403006 (MCM-DR-01) and 683403007 (MCM-DR-02) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	683403								
	001	002	003	004	005	006	007	008	009
Antimony	5X	5X	5X	5X	1X	5X	5X	1X	1X
Arsenic	1X	5X	5X	5X	1X	5X	1X	1X	1X
Barium	1X	1X	5X	5X	1X	5X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	5X	5X	5X	1X	5X	5X	1X	1X
Calcium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Lead	1X	1X	5X	5X	1X	5X	1X	1X	1X
Magnesium	5X	5X	10X	10X	5X	10X	5X	5X	5X
Manganese	1X	1X	1X	1X	1X	1X	1X	5X	5X
Molybdenum	5X	5X	5X	5X	1X	5X	5X	1X	1X
Potassium	1X	5X	5X	5X	5X	5X	5X	1X	1X
Selenium	1X	5X	5X	5X	1X	5X	1X	1X	1X
Thallium	1X	1X	5X	5X	1X	5X	1X	1X	1X

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2672584

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2672583

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

GEL Sample ID#	Client Sample Identification
683403001	MCM-INW-01
683403002	MCM-MCM-06
683403003	MCM-PT-01
683403004	MCM-PT-02
683403005	MCM-PT-03
683403006	MCM-DR-01
683403007	MCM-DR-02
683403008	MCM-DR-03
683403009	MCM-AP1-FD-01
1205855646	Method Blank (MB)**ICP-MS**
1205855647	Laboratory Control Sample (LCS)
1205855650	683403001(MCM-INW-01L) Serial Dilution (SD)
1205855648	683403001(MCM-INW-01S) Matrix Spike (MS)
1205855649	683403001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

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

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	683403								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Iron	100X	1X	1X	1X	100X	1X	1X	100X	100X
Sodium	100X	100X	100X	100X	100X	100X	100X	100X	100X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2665343

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2665342

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

GEL Sample ID#	Client Sample Identification
683403001	MCM-INW-01
683403002	MCM-MCM-06
683403003	MCM-PT-01
683403004	MCM-PT-02
683403005	MCM-PT-03
683403006	MCM-DR-01
683403007	MCM-DR-02
683403008	MCM-DR-03
683403009	MCM-AP1-FD-01
1205840374	Method Blank (MB)**CVAA**
1205840375	Laboratory Control Sample (LCS)
1205840378	683401001(MCM-INW-01L) Serial Dilution (SD)
1205840376	683401001(MCM-INW-01D) Sample Duplicate (DUP)
1205840377	683401001(MCM-INW-01S) Matrix Spike (MS)

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

Data Summary:

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

Certification Statement

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

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager:** ~~Erin Trent~~ Alissa Pinnick

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

683401
683403

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 1-Week Sampling August 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (Resolute Environmental) Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list	Dissolved Metals* (6020B) - see list	Cl, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)
									NI	NI				
MCM-INW-01	8/27/24	1212	G	Y*	WG				X	X	X	X	X	Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl
MCM-MCM-06	8/28/24	1534	G	Y*	WG				X	X	X	X	X	
MCM-PT-01	8/28/24	1410	G	Y*	WG				X	X	X	X	X	
MCM-PT-02	8/28/24	1012	G	Y*	WG				X	X	X	X	X	** Run Total & Dissolved Metals
MCM-PT-03	8/27/24	1510	G	Y*	WG				X	X	X	X	X	Dissolved Metals
MCM-DR-01	8/28/24	1146	G	Y*	WG				X	X	X	X	X	
MCM-DR-02	8/27/24	1630	G	Y*	WG				X	X	X	X	X	
MCM-DR-03	8/27/24	1022	G	Y*	WG				X	X	X	X	X	
MCM-AP1-FD-01	8/27/24	—	FD	Y*	WG				X	X	X	X	X	
MCM-AP1-FB-01	8/27/24	1730	FB	N	WQ				X		X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
Resolute Environmental	8/29/24	1420 1604	1 Stay B	8/29/24	14:20
			2		
			3		

TAT Requested: Normal: __X__ Rush: X** **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

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

Additional Remarks: **Task Code: MCM-CCR-CA-20240826**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** 0 °C

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

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

1) Chain of Custody Number = Client Determined

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

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

4) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

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

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

7) **KNOWN OR POSSIBLE HAZARDS**

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

Dissolved metals are the only Field Filterd Samples

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: ~~Erin Trent~~ Alaina Pinnick

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

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 1-Week Sampling August 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI	NI							<-- Preservative Type (6)
									Total Metals (6020B) - see list	Dissolved Metals* (6020B) - see list	Cl, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)				
MCM-AP1-EB-01	8/27/24	1736	EB	N	WQ				X		X	X	X				Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] Resolute Environmental	08/28/24	[illegible]	1 [signature]	8/29/24	14:20
2			2		
3			3		

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

TAT Requested: Normal: __X__ Rush: ~~X~~ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

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

Additional Remarks: **Task Code: MCM-CCR-CA-20240826**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

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

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

Dissolved metals are the only Field Filterd Samples

683401
683403
683406
AP

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: PCC	**SDG/AR/COC/Work Order:**
Received By: CLM	**Date Received:** 8/29/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other Cooler 1 - 0° 2 - 0°

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

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date AUG 30 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 23 September 2024

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

GEL Laboratories LLC
a member of The GEL Group INC

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

September 20, 2024

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

Re: Plant McManus CCR Groundwater Compliance
Work Order: 684573

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 06, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
684573001	MCM-INW-01	Ground Water	09/05/24 11:46	09/06/24 12:52
684573002	MCM-MCM-06	Ground Water	09/05/24 15:38	09/06/24 12:52
684573003	MCM-PT-01	Ground Water	09/05/24 09:25	09/06/24 12:52
684573004	MCM-PT-02	Ground Water	09/05/24 14:17	09/06/24 12:52
684573005	MCM-PT-03	Ground Water	09/05/24 14:22	09/06/24 12:52
684573006	MCM-DR-01	Ground Water	09/05/24 11:39	09/06/24 12:52
684573007	MCM-DR-02	Ground Water	09/05/24 15:54	09/06/24 12:52
684573008	MCM-DR-03	Ground Water	09/05/24 09:22	09/06/24 12:52
684573009	MCM-AP1-FD-01	Ground Water	09/05/24 12:00	09/06/24 12:52

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

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	09-SEP-2024
SW846 7470A Prep	09-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	20-SEP-2024
SW846 7470A	10-SEP-2024
SW846 7470A	11-SEP-2024

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

Sincerely,

Kierra McKnight for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 684573 GEL Work Order: 684573

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

J Value is estimated

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

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

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

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

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

Reviewed by

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

Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	684573001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 11:46		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1203	2668865	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/20/24	1002	2668630	2
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.663	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.414	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		207	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

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

Notes:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	684573001	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	684573002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 15:38		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1208	2668865	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/20/24	1016	2668630	2
Arsenic		0.125	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.0831	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.732	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium		0.0555	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

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

Notes:

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	684573002	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	684573003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 09:25		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1210	2668865	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/20/24	1025	2668630	2
Arsenic	J	0.0105	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.721	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.758	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	J	0.0322	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

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

Notes:

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	684573003	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	684573004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 14:17		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1212	2668865	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/20/24	1028	2668630	2
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.711	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.609	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		4.22	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	J	0.0177	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668629

The following Analytical Methods were performed:

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

Notes:

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

Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	684573004	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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

Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	684573005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 14:22		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/11/24	1125	2669371	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/20/24	1031	2668630	2
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.430	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.647	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		3.40	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	J	0.0291	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/10/24	1115	2669368
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668629

The following Analytical Methods were performed:

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

Notes:

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

Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	684573005	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	684573006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 11:39		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/11/24	1126	2669371	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/20/24	1033	2668630	2
Arsenic	J	0.0236	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.377	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.752	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	J	0.201	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	J	0.0454	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/10/24	1115	2669368
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668629

The following Analytical Methods were performed:

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

Notes:

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	684573006	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	684573007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 15:54		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/11/24	1128	2669371	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/20/24	1036	2668630	2
Arsenic		0.0616	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.0713	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.950	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium		0.0536	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/10/24	1115	2669368
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668629

The following Analytical Methods were performed:

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

Notes:

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	684573007	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	684573008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 09:22		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/11/24	1130	2669371	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/20/24	1039	2668630	2
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.0453	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.687	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	J	0.0482	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Iron		437	0.825	2.50	mg/L	1.00	25	BAJ	09/20/24	1227	2668630	3

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/10/24	1115	2669368

The following Analytical Methods were performed:

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

Notes:

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	684573008	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	684573009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 12:00		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/11/24	1131	2669371	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BAJ	09/20/24	1042	2668630	2
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.406	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.648	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		3.82	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	J	0.0287	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668629
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/10/24	1115	2669368

The following Analytical Methods were performed:

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

Notes:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	684573009	Client ID:	GPCC001

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

Column headers are defined as follows:

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

QC Summary

Report Date: September 20, 2024

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

Contact: **Kristen Jurinko**

Workorder: **684573**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2668630											
QC1205847274 LCS											
Antimony	0.0500			0.0489	mg/L		97.9	(80%-120%)	BAJ	09/20/24	09:59
Arsenic	0.0500			0.0490	mg/L		98.1	(80%-120%)			
Barium	0.0500			0.0500	mg/L		99.9	(80%-120%)			
Beryllium	0.0500			0.0598	mg/L		120	(80%-120%)			
Boron	0.100			0.117	mg/L		117	(80%-120%)			
Cadmium	0.0500			0.0496	mg/L		99.1	(80%-120%)			
Chromium	0.0500			0.0483	mg/L		96.6	(80%-120%)			
Cobalt	0.0500			0.0472	mg/L		94.3	(80%-120%)			
Iron	2.00			1.94	mg/L		97	(80%-120%)			
Lead	0.0500			0.0509	mg/L		102	(80%-120%)			
Lithium	0.0500			0.0585	mg/L		117	(80%-120%)			
Molybdenum	0.0500			0.0506	mg/L		101	(80%-120%)			

QC Summary

Workorder: **684573**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2668630										
Selenium	0.0500			0.0499	mg/L		99.9	(80%-120%)	BAJ	09/20/24 09:59
Thallium	0.0500			0.0485	mg/L		97.1	(80%-120%)		
QC1205847273 MB										
Antimony			U	ND	mg/L					09/20/24 09:56
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Molybdenum			U	ND	mg/L					

QC Summary

Workorder: **684573**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2668630											
Selenium				U	ND	mg/L				BAJ	09/20/24 09:56
Thallium				U	ND	mg/L					
QC1205847275 684573001 MS											
Antimony	0.0500	U	ND		0.0489	mg/L		97.6	(75%-125%)		09/20/24 10:05
Arsenic	0.0500	U	ND		0.0534	mg/L		103	(75%-125%)		
Barium	0.0500	J	0.663		0.675	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0449	mg/L		89.4	(75%-125%)		
Boron	0.100		0.414		0.490	mg/L		N/A	(75%-125%)		
Cadmium	0.0500	U	ND		0.0464	mg/L		92.9	(75%-125%)		
Chromium	0.0500	U	ND		0.0476	mg/L		95.1	(75%-125%)		
Cobalt	0.0500	U	ND		0.0447	mg/L		89.3	(75%-125%)		
Iron	2.00		207		204	mg/L		N/A	(75%-125%)		
Lead	0.0500	U	ND		0.0442	mg/L		88.4	(75%-125%)		
Lithium	0.0500	U	ND		0.0606	mg/L		92.8	(75%-125%)		
Molybdenum	0.0500	U	ND		0.0549	mg/L		108	(75%-125%)		

QC Summary

Workorder: **684573**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2668630												
Selenium	0.0500	U	ND		0.0540	mg/L		102	(75%-125%)	BAJ	09/20/24	10:05
Thallium	0.0500	U	ND		0.0426	mg/L		85.1	(75%-125%)			
QC1205847276 684573001 MSD												
Antimony	0.0500	U	ND		0.0504	mg/L	3.04	101	(0%-20%)		09/20/24	10:08
Arsenic	0.0500	U	ND		0.0507	mg/L	5.23	98	(0%-20%)			
Barium	0.0500	J	0.663		0.680	mg/L	0.743	N/A	(0%-20%)			
Beryllium	0.0500	U	ND		0.0454	mg/L	1.1	90.4	(0%-20%)			
Boron	0.100		0.414		0.484	mg/L	1.13	N/A	(0%-20%)			
Cadmium	0.0500	U	ND		0.0467	mg/L	0.665	93.5	(0%-20%)			
Chromium	0.0500	U	ND		0.0476	mg/L	0.0946	95	(0%-20%)			
Cobalt	0.0500	U	ND		0.0456	mg/L	1.98	91	(0%-20%)			
Iron	2.00		207		200	mg/L	1.93	N/A	(0%-20%)			
Lead	0.0500	U	ND		0.0446	mg/L	0.923	89.2	(0%-20%)			
Lithium	0.0500	U	ND		0.0612	mg/L	1.03	94	(0%-20%)			
Molybdenum	0.0500	U	ND		0.0554	mg/L	0.934	109	(0%-20%)			

QC Summary

Workorder: **684573**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2668630												
Selenium	0.0500	U	ND		0.0538	mg/L	0.325	102	(0%-20%)	BAJ	09/20/24	10:08
Thallium	0.0500	U	ND		0.0427	mg/L	0.235	85.3	(0%-20%)			
QC1205847277 684573001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/20/24	10:13
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium		J	133	J	26.7	ug/L	.659		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Boron			82.9		20.7	ug/L	25.2		(0%-20%)			
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Iron			41300		8490	ug/L	2.69		(0%-20%)			
Lead		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Molybdenum		U	ND	U	ND	ug/L	N/A		(0%-20%)			

QC Summary

Workorder: **684573**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2668630										
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)	BAJ	09/20/24 10:13
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2668865										
QC1205847902 684298010 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/10/24 11:32
QC1205847901 LCS										
Mercury	0.00200			0.00203	mg/L		101	(80%-120%)		09/10/24 11:29
QC1205847900 MB										
Mercury			U	ND	mg/L					09/10/24 11:24
QC1205847903 684298010 MS										
Mercury	0.00200	U	ND	0.00202	mg/L		101	(75%-125%)		09/10/24 11:34
QC1205847904 684298010 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/10/24 11:36
Batch 2669371										
QC1205849549 684503003 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/11/24 10:58
QC1205849191 LCS										
Mercury	0.00200			0.00204	mg/L		102	(80%-120%)		09/11/24 10:51
QC1205849190 MB										
Mercury			U	ND	mg/L					09/11/24 10:50

QC Summary

Workorder: **684573**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch 2669371											
QC1205849550 684503003 MS											
Mercury	0.00200	U	ND		0.00170	mg/L		84.8	(75%-125%)	JP2	09/11/24 10:59
QC1205849551 684503003 SDILT											
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)		09/11/24 11:04

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
J	See case narrative for an explanation

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

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

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 684573

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2668630

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2668629

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

GEL Sample ID#	Client Sample Identification
684573001	MCM-INW-01
684573002	MCM-MCM-06
684573003	MCM-PT-01
684573004	MCM-PT-02
684573005	MCM-PT-03
684573006	MCM-DR-01
684573007	MCM-DR-02
684573008	MCM-DR-03
684573009	MCM-AP1-FD-01
1205847273	Method Blank (MB)**ICP-MS**
1205847274	Laboratory Control Sample (LCS)
1205847277	684573001(MCM-INW-01L) Serial Dilution (SD)
1205847275	684573001(MCM-INW-01S) Matrix Spike (MS)
1205847276	684573001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

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

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 684573008 (MCM-DR-03) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument. Per the SOP, samples were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	684573								
	001	002	003	004	005	006	007	008	009
Antimony	5X	5X	5X	5X	5X	5X	5X	5X	5X
Arsenic	5X	5X	5X	5X	5X	5X	5X	5X	5X
Barium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Beryllium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Chromium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cobalt	5X	5X	5X	5X	5X	5X	5X	5X	5X
Iron	5X	5X	5X	5X	5X	5X	5X	25X	5X
Lead	5X	5X	5X	5X	5X	5X	5X	5X	5X
Lithium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Molybdenum	5X	5X	5X	5X	5X	5X	5X	5X	5X
Selenium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Thallium	5X	5X	5X	5X	5X	5X	5X	5X	5X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2668865

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2668864

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

GEL Sample ID#	Client Sample Identification
684573001	MCM-INW-01
684573002	MCM-MCM-06
684573003	MCM-PT-01
684573004	MCM-PT-02
1205847900	Method Blank (MB)**CVAA**
1205847901	Laboratory Control Sample (LCS)
1205847904	684298010(NonSDGL) Serial Dilution (SD)
1205847902	684298010(NonSDGD) Sample Duplicate (DUP)
1205847903	684298010(NonSDGS) Matrix Spike (MS)

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

Data Summary:

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

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

Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2669371

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2669368

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

GEL Sample ID#	Client Sample Identification
684573005	MCM-PT-03
684573006	MCM-DR-01
684573007	MCM-DR-02
684573008	MCM-DR-03
684573009	MCM-AP1-FD-01
1205849190	Method Blank (MB)**CVAA**
1205849191	Laboratory Control Sample (LCS)
1205849551	684503003(NonSDGL) Serial Dilution (SD)
1205849549	684503003(NonSDGD) Sample Duplicate (DUP)
1205849550	684503003(NonSDGS) Matrix Spike (MS)

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

Data Summary:

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

Certification Statement

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

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

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

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

684564
684573

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus 2-Week Sampling September 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, Natalie Piparo (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list	Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments
									NI	NI			
MCM-INW-01	09/05/24	1146	G	Y*	WG			3	X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl
MCM-MCM-06	09/05/24	1538	G	Y*	WG			3	X	X	X		
MCM-PT-01	09/05/24	0925	G	Y*	WG			3	X	X	X		
MCM-PT-02	09/05/24	1417	G	Y*	WG			3	X	X	X		
MCM-PT-03	09/05/24	1422	G	Y*	WG			3	X	X	X		
MCM-DR-01	09/05/24	1139	G	Y*	WG			3	X	X	X		
MCM-DR-02	09/05/24	1554	G	Y*	WG			3	X	X	X		
MCM-DR-03	09/05/24	0922	G	Y*	WG			3	X	X	X		
MCM-AP1-FD-01	09/05/24	—	FD	Y*	WG			3	X	X	X		
MCM-AP1-FB-01	09/05/24	1646	FB	N	WQ			2	X		X		

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/6/24	1252		9/6/24	1252
2						
3						

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level
Additional Remarks: **Task Code: MCM-CCR-CA-20240902**
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* 1 °C

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

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

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

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

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

7.) KNOWN OR POSSIBLE HAZARDS

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

Dissolved metals are the only Field Filterd Samples

Page 33 of 65 SDG 684573

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

Chain of Custody and Analytical Request

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

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

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 2-Week Sampling September 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

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

Sample ID *For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments
MCM-AP1-EB-01	09/05/24	1658	EB	N	WQ			2	X		X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental	9/6/24	1252	1	9/6/24	1252
2			2		
3			3		

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

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

Additional Remarks: **Task Code: MCM-CCR-CA-20240902**

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

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

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

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

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

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

7.) KNOWN OR POSSIBLE HAZARDS

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

Dissolved metals are the only Field Filterd Samples

Page 34 of 36 SDG: 680453

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

684564
684573

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 9/6/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other n/a

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

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1c
4	~~Daily check performed and passed on IR temperature gun?~~	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials VM Date 9/9/24 Page 1 of 1

List of current GEL Certifications as of 20 September 2024

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

GEL Laboratories LLC
a member of The GEL Group INC

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

September 20, 2024

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

Re: Plant McManus CCR Groundwater Compliance
Work Order: 684564

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 06, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
684564001	MCM-INW-01	Ground Water	09/05/24 11:46	09/06/24 12:52
684564002	MCM-MCM-06	Ground Water	09/05/24 15:38	09/06/24 12:52
684564003	MCM-PT-01	Ground Water	09/05/24 09:25	09/06/24 12:52
684564004	MCM-PT-02	Ground Water	09/05/24 14:17	09/06/24 12:52
684564005	MCM-PT-03	Ground Water	09/05/24 14:22	09/06/24 12:52
684564006	MCM-DR-01	Ground Water	09/05/24 11:39	09/06/24 12:52
684564007	MCM-DR-02	Ground Water	09/05/24 15:54	09/06/24 12:52
684564008	MCM-DR-03	Ground Water	09/05/24 09:22	09/06/24 12:52
684564009	MCM-AP1-FD-01	Ground Water	09/05/24 12:00	09/06/24 12:52
684564010	MCM-AP1-FB-01	Water	09/05/24 16:48	09/06/24 12:52
684564011	MCM-AP1-EB-01	Water	09/05/24 16:58	09/06/24 12:52

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

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	09-SEP-2024
SW846 7470A Prep	09-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	09-SEP-2024
EPA 300.0	10-SEP-2024
SW846 3005A/6020B	18-SEP-2024
SW846 7470A	10-SEP-2024

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

Sincerely,

Hannah Bowden for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

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

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 684564 GEL Work Order: 684564

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

J Value is estimated

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

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

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

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

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

Reviewed by Hannah Bowden

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

Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	684564001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 11:46		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5830	67.0	200	mg/L		1000	CWW	09/10/24	1135	2669330	1
Sulfate		808	66.5	200	mg/L		500	CWW	09/09/24	1950	2669330	2
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/10/24	1000	2669330	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1142	2668865	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.451	0.0520	0.150	mg/L	1.00	10	PRB	09/18/24	0259	2668628	5
Iron		205	0.330	1.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0241	2668628	6
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.637	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0131	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000881	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00189	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	684564001	Client ID:	GPCC001

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

The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	684564002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 15:38		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/10/24	1310	2669330	1
Chloride		3250	33.5	100	mg/L		500	CWW	09/09/24	2126	2669330	2
Sulfate		310	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1144	2668865	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.751	0.0520	0.150	mg/L	1.00	10	PRB	09/18/24	0339	2668628	4
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0321	2668628	5
Arsenic		0.110	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0822	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0442	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0531	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000906	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00162	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627

The following Analytical Methods were performed:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	684564002	Client ID:	GPCC001

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	684564003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 09:25		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4550	33.5	100	mg/L		500	CWW	09/09/24	2157	2669330	1
Sulfate		542	66.5	200	mg/L		500					
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/10/24	1342	2669330	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1149	2668865	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0324	2668628	4
Arsenic	J	0.00878	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.693	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.118	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0293	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000676	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00199	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.751	0.0520	0.150	mg/L	1.00	10	PRB	09/18/24	0342	2668628	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	684564003	Client ID:	GPCC001

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	684564004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 14:17		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4450	33.5	100	mg/L		500	CWW	09/09/24	2229	2669330	1
Sulfate		538	66.5	200	mg/L		500					
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/10/24	1414	2669330	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1150	2668865	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0328	2668628	4
Arsenic	J	0.00368	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.660	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		3.70	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0159	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000686	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00207	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.549	0.0520	0.150	mg/L	1.00	10	PRB	09/18/24	0346	2668628	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	684564004	Client ID:	GPCC001

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	684564005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 14:22		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4530	33.5	100	mg/L		500	CWW	09/09/24	2301	2669330	1
Sulfate		546	66.5	200	mg/L		500					
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/10/24	1446	2669330	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1152	2668865	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.634	0.0520	0.150	mg/L	1.00	10	PRB	09/18/24	0349	2668628	4
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0331	2668628	5
Arsenic		0.0105	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.389	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		6.29	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0282	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000517	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00195	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627

The following Analytical Methods were performed:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	684564005	Client ID:	GPCC001

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	684564006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 11:39		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/10/24	1653	2669330	1
Chloride		4550	33.5	100	mg/L		500	CWW	09/09/24	2333	2669330	2
Sulfate		509	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1154	2668865	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.724	0.0520	0.150	mg/L	1.00	10	PRB	09/18/24	0353	2668628	4
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0335	2668628	5
Arsenic		0.0205	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.370	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.302	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0409	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000655	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00196	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

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

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Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	684564006	Client ID:	GPCC001

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	684564007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 15:54		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2860	33.5	100	mg/L		500	CWW	09/10/24	0140	2669330	1
Sulfate		325	66.5	200	mg/L		500					
Fluoride	J	0.918	0.660	2.00	mg/L		20	CWW	09/10/24	1725	2669330	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1155	2668865	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0404	2668628	4
Arsenic		0.0659	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0675	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		1.26	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0478	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.00121	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00162	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.838	0.0520	0.150	mg/L	1.00	10	PRB	09/18/24	0422	2668628	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	684564007	Client ID:	GPCC001

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	684564008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 09:22		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2290	33.5	100	mg/L		500	CWW	09/10/24	0212	2669330	1
Sulfate		249	66.5	200	mg/L		500					
Fluoride	J	1.42	0.660	2.00	mg/L		20	CWW	09/10/24	1757	2669330	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1157	2668865	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0408	2668628	4
Arsenic	J	0.00538	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0420	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0482	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.00111	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.675	0.0520	0.150	mg/L	1.00	10	PRB	09/18/24	0426	2668628	5
Iron		403	0.330	1.00	mg/L	1.00	10					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	684564008	Client ID:	GPCC001

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	684564009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	05-SEP-24 12:00		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/10/24	1933	2669330	1
Chloride		4450	33.5	100	mg/L		500	CWW	09/10/24	0348	2669330	2
Sulfate		534	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1158	2668865	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0411	2668628	4
Arsenic		0.0110	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.389	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		5.92	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0276	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000500	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00187	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.574	0.0520	0.150	mg/L	1.00	10	PRB	09/18/24	0429	2668628	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	684564009	Client ID:	GPCC001

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

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	684564010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	05-SEP-24 16:48		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/10/24	0419	2669330	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1200	2668865	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0415	2668628	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron	J	0.00775	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	684564010	Client ID:	GPCC001

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	684564011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	05-SEP-24 16:58		
Receive Date:	06-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/10/24	0451	2669330	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/10/24	1202	2668865	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/18/24	0418	2668628	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	09/09/24	0815	2668627
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/09/24	1135	2668864

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 20, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	684564011	Client ID:	GPCC001

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

Column headers are defined as follows:

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

QC Summary

Report Date: September 20, 2024

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

Contact: **Kristen Jurinko**

Workorder: **684564**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2669330										
QC1205849109 684564001 DUP										
Chloride		5830		5770	mg/L	1.07		(0%-20%)	CWW	09/10/24 12:07
Fluoride	U	ND	U	ND	mg/L	N/A				09/10/24 10:31
Sulfate		808		800	mg/L	0.995	^	(+/-200)		09/09/24 20:22
QC1205849111 684564008 DUP										
Chloride		2290		2280	mg/L	0.521		(0%-20%)		09/10/24 02:44
Fluoride	J	1.42	J	1.28	mg/L	10.5	^	(+/-2.00)		09/10/24 18:29
Sulfate		249		263	mg/L	5.65	^	(+/-200)		09/10/24 02:44
QC1205849108 LCS										
Chloride	5.00			5.20	mg/L		104	(90%-110%)		09/09/24 19:18
Fluoride	2.50			2.56	mg/L		102	(90%-110%)		
Sulfate	10.0			10.5	mg/L		105	(90%-110%)		
QC1205849107 MB										
Chloride			U	ND	mg/L					09/09/24 18:46
Fluoride			U	ND	mg/L					
Sulfate			U	ND	mg/L					

QC Summary

Workorder: **684564**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2669330											
QC1205849110 684564001 PS											
Chloride	5.00		5.83		11.4	mg/L		111*	(90%-110%)	CWW	09/10/24 12:39
Fluoride	2.50	U	ND		2.66	mg/L		106	(90%-110%)		09/10/24 11:03
Sulfate	10.0		1.62		11.9	mg/L		103	(90%-110%)		09/09/24 20:54
QC1205849112 684564008 PS											
Chloride	5.00		4.58		10.1	mg/L		110	(90%-110%)		09/10/24 03:16
Fluoride	2.50	J	0.0711		2.86	mg/L		111*	(90%-110%)		09/10/24 19:01
Sulfate	10.0		0.497		10.7	mg/L		102	(90%-110%)		09/10/24 03:16
Metals Analysis - ICPMS											
Batch 2668628											
QC1205847269 LCS											
Antimony	0.0500				0.0478	mg/L		95.6	(80%-120%)	PRB	09/18/24 02:30
Arsenic	0.0500				0.0481	mg/L		96.2	(80%-120%)		
Barium	0.0500				0.0489	mg/L		97.7	(80%-120%)		
Beryllium	0.0500				0.0521	mg/L		104	(80%-120%)		
Boron	0.100				0.105	mg/L		105	(80%-120%)		
Cadmium	0.0500				0.0491	mg/L		98.2	(80%-120%)		
Chromium	0.0500				0.0476	mg/L		95.2	(80%-120%)		

QC Summary

Workorder: **684564**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2668628										
Cobalt	0.0500			0.0473	mg/L		94.6	(80%-120%)	PRB	09/18/24 02:30
Iron	2.00			1.88	mg/L		93.9	(80%-120%)		
Lead	0.0500			0.0489	mg/L		97.7	(80%-120%)		
Lithium	0.0500			0.0512	mg/L		102	(80%-120%)		
Molybdenum	0.0500			0.0505	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0490	mg/L		97.9	(80%-120%)		
Thallium	0.0500			0.0465	mg/L		93.1	(80%-120%)		
QC1205847268 MB										
Antimony			U	ND	mg/L					09/18/24 02:26
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Chromium			U	ND	mg/L					

QC Summary

Workorder: **684564**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2668628											
Cobalt				U	ND	mg/L				PRB	09/18/24 02:26
Iron				U	ND	mg/L					
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Molybdenum				J	0.000264	mg/L					
Selenium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205847270 684564001 MS											
Antimony	0.0500	U	ND		0.0467	mg/L		93	(75%-125%)		09/18/24 02:44
Arsenic	0.0500	U	ND		0.0458	mg/L		88.6	(75%-125%)		
Barium	0.0500	J	0.637		0.674	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0423	mg/L		84.6	(75%-125%)		
Boron	0.100		0.451		0.536	mg/L		N/A	(75%-125%)		09/18/24 03:03
Cadmium	0.0500	U	ND		0.0413	mg/L		82.6	(75%-125%)		09/18/24 02:44
Chromium	0.0500	U	ND		0.0466	mg/L		92.5	(75%-125%)		

QC Summary

Workorder: **684564**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2668628											
Cobalt	0.0500	U	ND		0.0429	mg/L		85.7	(75%-125%)	PRB	09/18/24 02:44
Iron	2.00		205		209	mg/L		N/A	(75%-125%)		09/18/24 03:03
Lead	0.0500	U	ND		0.0424	mg/L		84.7	(75%-125%)		09/18/24 02:44
Lithium	0.0500	J	0.0131		0.0610	mg/L		95.8	(75%-125%)		
Molybdenum	0.0500	J	0.000881		0.0551	mg/L		109	(75%-125%)		
Selenium	0.0500	J	0.00189		0.0465	mg/L		89.3	(75%-125%)		
Thallium	0.0500	U	ND		0.0414	mg/L		82.5	(75%-125%)		
QC1205847271 684564001 MSD											
Antimony	0.0500	U	ND		0.0462	mg/L	1.01	92.1	(0%-20%)		09/18/24 02:48
Arsenic	0.0500	U	ND		0.0461	mg/L	0.587	89.1	(0%-20%)		
Barium	0.0500	J	0.637		0.691	mg/L	2.47	N/A	(0%-20%)		
Beryllium	0.0500	U	ND		0.0432	mg/L	2.15	86.4	(0%-20%)		
Boron	0.100		0.451		0.516	mg/L	3.83	N/A	(0%-20%)		09/18/24 03:06
Cadmium	0.0500	U	ND		0.0411	mg/L	0.595	82.1	(0%-20%)		09/18/24 02:48
Chromium	0.0500	U	ND		0.0469	mg/L	0.642	93.1	(0%-20%)		

QC Summary

Workorder: **684564**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2668628											
Cobalt	0.0500	U	ND		0.0427	mg/L	0.425	85.3	(0%-20%)	PRB	09/18/24 02:48
Iron	2.00		205		207	mg/L	0.992	N/A	(0%-20%)		09/18/24 03:06
Lead	0.0500	U	ND		0.0429	mg/L	1.12	85.7	(0%-20%)		09/18/24 02:48
Lithium	0.0500	J	0.0131		0.0615	mg/L	0.785	96.8	(0%-20%)		
Molybdenum	0.0500	J	0.000881		0.0565	mg/L	2.44	111	(0%-20%)		
Selenium	0.0500	J	0.00189		0.0458	mg/L	1.64	87.8	(0%-20%)		
Thallium	0.0500	U	ND		0.0421	mg/L	1.69	83.9	(0%-20%)		
QC1205847272 684564001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/18/24 02:55
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium		J	637	J	132	ug/L	3.24		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			45.1	J	9.60	ug/L	6.4		(0%-20%)		09/18/24 03:10
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/18/24 02:55
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **684564**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2668628										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/18/24 02:55
Iron		20500		4160	ug/L	1.76		(0%-20%)		09/18/24 03:10
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/18/24 02:55
Lithium	J	13.1	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	J	0.881	J	0.269	ug/L	52.7		(0%-20%)		
Selenium	J	1.89	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2668865										
QC1205847902 684298010 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/10/24 11:32
QC1205847901 LCS										
Mercury 0.00200				0.00203	mg/L		101	(80%-120%)		09/10/24 11:29
QC1205847900 MB										
Mercury			U	ND	mg/L					09/10/24 11:24
QC1205847903 684298010 MS										
Mercury 0.00200	U	ND		0.00202	mg/L		101	(75%-125%)		09/10/24 11:34
QC1205847904 684298010 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/10/24 11:36

QC Summary

Workorder: **684564**

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

Notes:

The Qualifiers in this report are defined as follows:

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

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

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

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2668628

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2668627

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

GEL Sample ID#	Client Sample Identification
684564001	MCM-INW-01
684564002	MCM-MCM-06
684564003	MCM-PT-01
684564004	MCM-PT-02
684564005	MCM-PT-03
684564006	MCM-DR-01
684564007	MCM-DR-02
684564008	MCM-DR-03
684564009	MCM-AP1-FD-01
684564010	MCM-AP1-FB-01
684564011	MCM-AP1-EB-01
1205847268	Method Blank (MB)**ICP-MS**
1205847269	Laboratory Control Sample (LCS)
1205847272	684564001(MCM-INW-01L) Serial Dilution (SD)
1205847270	684564001(MCM-INW-01S) Matrix Spike (MS)
1205847271	684564001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

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

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 684564001 (MCM-INW-01), 684564002

(MCM-MCM-06), 684564003 (MCM-PT-01), 684564004 (MCM-PT-02), 684564005 (MCM-PT-03), 684564006 (MCM-DR-01), 684564007 (MCM-DR-02), 684564008 (MCM-DR-03) and 684564009 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	684564								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Boron	10X	10X	10X	10X	10X	10X	10X	10X	10X
Iron	10X	1X	1X	1X	1X	1X	1X	10X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2668865

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2668864

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

GEL Sample ID#	Client Sample Identification
684564001	MCM-INW-01
684564002	MCM-MCM-06
684564003	MCM-PT-01
684564004	MCM-PT-02
684564005	MCM-PT-03
684564006	MCM-DR-01
684564007	MCM-DR-02
684564008	MCM-DR-03
684564009	MCM-AP1-FD-01
684564010	MCM-AP1-FB-01
684564011	MCM-AP1-EB-01
1205847900	Method Blank (MB)**CVAA**
1205847901	Laboratory Control Sample (LCS)
1205847904	684298010(NonSDGL) Serial Dilution (SD)
1205847902	684298010(NonSDGD) Sample Duplicate (DUP)
1205847903	684298010(NonSDGS) Matrix Spike (MS)

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

Data Summary:

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

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2669330

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

GEL Sample ID#	Client Sample Identification
684564001	MCM-INW-01
684564002	MCM-MCM-06
684564003	MCM-PT-01
684564004	MCM-PT-02
684564005	MCM-PT-03
684564006	MCM-DR-01
684564007	MCM-DR-02
684564008	MCM-DR-03
684564009	MCM-AP1-FD-01
684564010	MCM-AP1-FB-01
684564011	MCM-AP1-EB-01
1205849107	Method Blank (MB)
1205849108	Laboratory Control Sample (LCS)
1205849109	684564001(MCM-INW-01) Sample Duplicate (DUP)
1205849110	684564001(MCM-INW-01) Post Spike (PS)
1205849111	684564008(MCM-DR-03) Sample Duplicate (DUP)
1205849112	684564008(MCM-DR-03) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

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

Analyte	Sample	Value
Chloride	1205849110 (MCM-INW-01PS)	111* (90%-110%)
Fluoride	1205849112 (MCM-DR-03PS)	111* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205849109 (MCM-INW-01DUP), 1205849110 (MCM-INW-01PS) and 684564001 (MCM-INW-01) were diluted because target analyte concentrations exceeded the calibration range. Samples 1205849109 (MCM-INW-01DUP), 1205849110 (MCM-INW-01PS), 1205849111 (MCM-DR-03DUP), 1205849112 (MCM-DR-03PS), 684564001 (MCM-INW-01), 684564002 (MCM-MCM-06), 684564003 (MCM-PT-01), 684564004 (MCM-PT-02), 684564005 (MCM-PT-03), 684564006 (MCM-DR-01), 684564007 (MCM-DR-02), 684564008 (MCM-DR-03) and 684564009 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Samples 1205849109 (MCM-INW-01DUP), 1205849110 (MCM-INW-01PS), 1205849111 (MCM-DR-03DUP), 1205849112 (MCM-DR-03PS), 684564001 (MCM-INW-01), 684564002 (MCM-MCM-06), 684564003 (MCM-PT-01), 684564004 (MCM-PT-02), 684564005 (MCM-PT-03), 684564006 (MCM-DR-01),

684564007 (MCM-DR-02), 684564008 (MCM-DR-03) and 684564009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	684564								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	500X	500X	500X	500X	500X	500X	500X	500X
Fluoride	20X	20X	20X	20X	20X	20X	20X	20X	20X
Sulfate	500X	500X	500X	500X	500X	500X	500X	500X	500X

Certification Statement

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

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

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

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

684564
684573

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 2-Week Sampling September 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo (Resolute Environmental) Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

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

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)
MCM-INW-01	09/05/24	1146	G	Y*	WG			3	X	X	X	Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl
MCM-MCM-06	09/05/24	1538	G	Y*	WG			3	X	X	X	
MCM-PT-01	09/05/24	0925	G	Y*	WG			3	X	X	X	
MCM-PT-02	09/05/24	1417	G	Y*	WG			3	X	X	X	
MCM-PT-03	09/05/24	1422	G	Y*	WG			3	X	X	X	
MCM-DR-01	09/05/24	1139	G	Y*	WG			3	X	X	X	
MCM-DR-02	09/05/24	1554	G	Y*	WG			3	X	X	X	
MCM-DR-03	09/05/24	0922	G	Y*	WG			3	X	X	X	
MCM-AP1-FD-01	09/05/24	—	FD	Y*	WG			3	X	X	X	
MCM-AP1-FB-01	09/05/24	1646	FB	N	WQ			2	X		X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/6/24	01252		9/6/24	1252
2						
3						

TAT Requested: **Normal:** X **Rush:** _____ **Specify:** _____ **(Subject to Surcharge**

Fax Results: [ ] Yes [ ] No

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

Additional Remarks: **Task Code: MCM-CCR-CA-20240902**

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

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

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

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

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

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

7.) KNOWN OR POSSIBLE HAZARDS

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

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

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

****Dissolved metals are the only Field Filterd Samples****

Page 38 of 42
20241205164564

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

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

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

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 2-Week Sampling September 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo (Resolute Environmental) Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

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

Sample ID *For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments
MCM-AP1-EB-01	09/05/24	1658	EB	N	WQ			2	X		X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time		Received by (signed)	Date	Time
1	Resolute Environmental	9/6/24	1252	1		9/6/24	1252
2				2			
3				3			

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

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

Additional Remarks: **Task Code: MCM-CCR-CA-20240902**

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

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

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

1.) Chain of Custody Number = Client Determined

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

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

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

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

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

7.) KNOWN OR POSSIBLE HAZARDS

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

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

TSCA Regulated
PCB = Polychlorinated biphenyls

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

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

****Dissolved metals are the only Field Filterd Samples****

Page 40 of 42 SDG 604564

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

684564
684573

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 9/6/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other

n/a

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: [redacted] If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr. Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1c
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?				If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials VM Date 9/9/24 Page 1 of 1

List of current GEL Certifications as of 20 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 27, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance
Work Order: 685645

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 13, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Client requested sample MCM-MCM-06 be reported seperately. It is reported as GEL workorder 685519. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
685645001	MCM-INW-01	Ground Water	09/12/24 12:10	09/13/24 09:40
685645002	MCM-MCM-06	Ground Water	09/12/24 10:12	09/13/24 09:40
685645003	MCM-PT-01	Ground Water	09/12/24 11:57	09/13/24 09:40
685645004	MCM-PT-02	Ground Water	09/12/24 14:31	09/13/24 09:40
685645005	MCM-PT-03	Ground Water	09/12/24 13:50	09/13/24 09:40
685645006	MCM-DR-01	Ground Water	09/12/24 13:24	09/13/24 09:40
685645007	MCM-DR-02	Ground Water	09/12/24 15:08	09/13/24 09:40
685645008	MCM-DR-03	Ground Water	09/12/24 10:47	09/13/24 09:40
685645009	MCM-AP1-FD-01	Ground Water	09/12/24 12:00	09/13/24 09:40
685645010	MCM-AP1-FB-01	Water	09/12/24 13:10	09/13/24 09:40
685645011	MCM-AP1-EB-01	Water	09/12/24 13:14	09/13/24 09:40
685645012	MCM-INW-01	Ground Water	09/12/24 12:10	09/13/24 09:40
685645013	MCM-MCM-06	Ground Water	09/12/24 10:12	09/13/24 09:40
685645014	MCM-PT-01	Ground Water	09/12/24 11:57	09/13/24 09:40
685645015	MCM-PT-02	Ground Water	09/12/24 14:31	09/13/24 09:40
685645016	MCM-PT-03	Ground Water	09/12/24 13:50	09/13/24 09:40

685645017	MCM-DR-01	Ground Water	09/12/24 13:24	09/13/24 09:40
685645018	MCM-DR-02	Ground Water	09/12/24 15:08	09/13/24 09:40
685645019	MCM-DR-03	Ground Water	09/12/24 10:47	09/13/24 09:40
685645020	MCM-AP1-FD-01	Ground Water	09/12/24 12:00	09/13/24 09:40

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	16-SEP-2024
SW846 7470A Prep	18-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	17-SEP-2024
EPA 300.0	18-SEP-2024
SW846 3005A/6020B	27-SEP-2024
SW846 7470A	19-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 685645 GEL Work Order: 685645

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	685645001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 12:10		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5360	67.0	200	mg/L		1000	CWW	09/17/24	2149	2672211	1
Sulfate		975	133	400	mg/L		1000					
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/18/24	1240	2672211	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1202	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1122	2672440	4
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.640	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.424	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		118	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	J	0.00197	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	685645001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	685645002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 10:12		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3050	33.5	100	mg/L		500	CWW	09/17/24	2220	2672211	1
Sulfate		313	66.5	200	mg/L		500					
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/18/24	1311	2672211	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	685645003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 11:57		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/18/24	1343	2672211	1
Chloride		4090	33.5	100	mg/L		500	CWW	09/17/24	2252	2672211	2
Sulfate		525	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1215	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic		0.0144	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1146	2672440	4
Barium	J	0.621	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.233	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0345	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00230	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1201	2672440	5
Boron		0.723	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	685645003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	685645004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 14:31		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3660	33.5	100	mg/L		500	CWW	09/17/24	2324	2672211	1
Sulfate		430	66.5	200	mg/L		500					
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/18/24	1415	2672211	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1217	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1204	2672440	4
Boron		0.669	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Arsenic		0.0231	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1149	2672440	5
Barium	J	0.496	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		1.24	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0290	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00220	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	685645004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	685645005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 13:50		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.812	0.660	2.00	mg/L		20	CWW	09/18/24	1447	2672211	1
Chloride		3180	33.5	100	mg/L		500	CWW	09/17/24	2356	2672211	2
Sulfate		379	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1219	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1207	2672440	4
Boron		0.721	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Arsenic	J	0.00507	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1152	2672440	5
Barium	J	0.171	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		18.1	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0395	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00183	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	685645005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	685645006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 13:24		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/18/24	1519	2672211	1
Chloride		4080	33.5	100	mg/L		500	CWW	09/18/24	0028	2672211	2
Sulfate		482	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1220	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1210	2672440	4
Barium	J	0.326	0.00335	2.00	mg/L	1.00	5					
Boron		0.691	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Arsenic		0.0270	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1155	2672440	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.265	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0429	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00240	0.00150	0.0500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	685645006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	685645007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 15:08		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.870	0.660	2.00	mg/L		20	CWW	09/18/24	1551	2672211	1
Chloride		2590	33.5	100	mg/L		500	CWW	09/18/24	0100	2672211	2
Sulfate		317	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1222	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.825	0.0260	0.0750	mg/L	1.00	5	PRB	09/27/24	1235	2672440	4
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1220	2672440	5
Arsenic		0.0449	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0537	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.287	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0440	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000840	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00193	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	685645007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	685645008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 10:47		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2110	33.5	100	mg/L		500	CWW	09/18/24	0339	2672211	1
Sulfate		324	66.5	200	mg/L		500					
Fluoride		1.08	0.330	1.00	mg/L		10	CWW	09/18/24	1902	2672211	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1223	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.744	0.0260	0.0750	mg/L	1.00	5	PRB	09/27/24	1238	2672440	4
Iron		212	0.165	0.500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1223	2672440	5
Arsenic	J	0.00358	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0386	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0467	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000936	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	685645008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	685645009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 12:00		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4080	33.5	100	mg/L		500	CWW	09/18/24	0411	2672211	1
Sulfate		544	66.5	200	mg/L		500					
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/18/24	1933	2672211	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1228	2673473	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1243	2672440	4
Barium	J	0.636	0.00335	2.00	mg/L	1.00	5					
Boron		0.712	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Arsenic		0.0141	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1226	2672440	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.192	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.0358	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00226	0.00150	0.0500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	685645009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	685645010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	12-SEP-24 13:10		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/18/24	0443	2672211	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1230	2673473	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1229	2672440	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron	J	0.00678	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	685645010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	685645011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	12-SEP-24 13:14		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/18/24	0514	2672211	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1232	2673473	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1232	2672440	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	685645011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	685645012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 12:10		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1233	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	09/27/24	1252	2672440	2
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lithium	J	0.0101	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1308	2672440	3
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.605	0.00335	2.00	mg/L	1.00	5					
Boron		0.416	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Iron		96.9	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	685645012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	685645014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 11:57		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1237	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1314	2672440	2
Boron		0.737	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Arsenic		0.0117	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1258	2672440	3
Barium	J	0.608	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0789	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0344	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00224	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	685645014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	685645015	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 14:31		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1238	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1317	2672440	2
Boron		0.618	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Arsenic		0.0219	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1301	2672440	3
Barium	J	0.477	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		1.16	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0272	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00260	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	685645015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	685645016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 13:50		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1240	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.701	0.0260	0.0750	mg/L	1.00	5	PRB	09/27/24	1320	2672440	2
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1305	2672440	3
Arsenic	J	0.00315	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.170	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		8.26	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0374	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000247	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00167	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	685645016	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	685645017	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 13:24		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1242	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1341	2672440	2
Barium	J	0.334	0.00335	2.00	mg/L	1.00	5					
Boron		0.723	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Arsenic		0.0281	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1329	2672440	3
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.238	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0431	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00238	0.00150	0.0500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-01	Project:	GPCC00105
Sample ID:	685645017	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	685645018	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 15:08		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1243	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1332	2672440	2
Arsenic		0.0470	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0518	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0586	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0478	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000459	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00170	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.852	0.0260	0.0750	mg/L	1.00	5	PRB	09/27/24	1344	2672440	3

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	685645018	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	685645019	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 10:47		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1248	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.763	0.0260	0.0750	mg/L	1.00	5	PRB	09/27/24	1347	2672440	2
Iron		215	0.165	0.500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1335	2672440	3
Arsenic	J	0.00357	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0379	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0466	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000821	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	685645019	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	685645020	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 12:00		
Receive Date:	13-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1250	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic		0.0117	0.00200	0.0100	mg/L	1.00	1	PRB	09/27/24	1338	2672440	2
Barium	J	0.611	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.102	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0343	0.00300	0.0400	mg/L	1.00	1					
Selenium	J	0.00226	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	09/27/24	1350	2672440	3
Boron		0.716	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 27, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	685645020	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 27, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **685645**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2672211												
QC1205854701 685522001 DUP												
Chloride			100		100	mg/L	0.11			(0%-20%)	CWW	09/18/24 06:18
Fluoride		J	0.0749	J	0.0787	mg/L	4.95	^		(+/-0.100)		09/17/24 16:30
Sulfate			103		102	mg/L	1.38			(0%-20%)		09/18/24 06:18
QC1205854703 685645007 DUP												
Chloride			2590		2580	mg/L	0.343			(0%-20%)		09/18/24 01:31
Fluoride		J	0.870	J	0.906	mg/L	4.05	^		(+/-2.00)		09/18/24 16:22
Sulfate			317		326	mg/L	2.64	^		(+/-200)		09/18/24 01:31
QC1205854700 LCS												
Chloride	5.00				4.75	mg/L			95	(90%-110%)		09/17/24 15:26
Fluoride	2.50				2.40	mg/L			96	(90%-110%)		
Sulfate	10.0				9.73	mg/L			97.3	(90%-110%)		
QC1205854699 MB												
Chloride				U	ND	mg/L						09/17/24 14:55
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						

QC Summary

Workorder: **685645**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2672211											
QC1205854702 685522001 PS											
Chloride	5.00		5.02		10.2	mg/L		103	(90%-110%)	CWW	09/18/24 06:50
Fluoride	2.50	J	0.0749		2.63	mg/L		102	(90%-110%)		09/17/24 17:02
Sulfate	10.0		5.16		14.6	mg/L		94.2	(90%-110%)		09/18/24 06:50
QC1205854704 685645007 PS											
Chloride	5.00		5.17		10.3	mg/L		103	(90%-110%)		09/18/24 02:03
Fluoride	2.50	J	0.0435		2.46	mg/L		96.9	(90%-110%)		09/18/24 16:54
Sulfate	10.0		0.635		10.2	mg/L		96.1	(90%-110%)		09/18/24 02:03
Metals Analysis - ICPMS											
Batch 2672440											
QC1205855318 LCS											
Antimony	0.0500				0.0480	mg/L		96.1	(80%-120%)	PRB	09/27/24 11:19
Arsenic	0.0500				0.0480	mg/L		96	(80%-120%)		
Barium	0.0500				0.0496	mg/L		99.2	(80%-120%)		
Beryllium	0.0500				0.0552	mg/L		110	(80%-120%)		
Boron	0.100				0.109	mg/L		109	(80%-120%)		
Cadmium	0.0500				0.0493	mg/L		98.5	(80%-120%)		
Chromium	0.0500				0.0486	mg/L		97.2	(80%-120%)		

QC Summary

Workorder: **685645**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2672440										
Cobalt	0.0500			0.0481	mg/L		96.3	(80%-120%)	PRB	09/27/24 11:19
Iron	2.00			1.93	mg/L		96.6	(80%-120%)		
Lead	0.0500			0.0504	mg/L		101	(80%-120%)		
Lithium	0.0500			0.0533	mg/L		107	(80%-120%)		
Molybdenum	0.0500			0.0506	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0489	mg/L		97.9	(80%-120%)		
Thallium	0.0500			0.0479	mg/L		95.9	(80%-120%)		
QC1205855317 MB										
Antimony			U	ND	mg/L					09/27/24 11:16
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Chromium			U	ND	mg/L					

QC Summary

Workorder: **685645**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2672440											
Cobalt				U	ND	mg/L				PRB	09/27/24 11:16
Iron				U	ND	mg/L					
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Molybdenum				J	0.000211	mg/L					
Selenium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205855319 685645001 MS											
Antimony	0.0500	U	ND		0.0518	mg/L		103	(75%-125%)		09/27/24 11:25
Arsenic	0.0500	U	ND		0.0514	mg/L		99	(75%-125%)		
Barium	0.0500	J	0.640		0.693	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0466	mg/L		93.2	(75%-125%)		
Boron	0.100		0.424		0.515	mg/L		N/A	(75%-125%)		
Cadmium	0.0500	U	ND		0.0477	mg/L		95.2	(75%-125%)		
Chromium	0.0500	U	ND		0.0538	mg/L		100	(75%-125%)		

QC Summary

Workorder: **685645**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2672440												
Cobalt	0.0500	U	ND		0.0486	mg/L		97.3	(75%-125%)	PRB	09/27/24	11:25
Iron	2.00		118		120	mg/L		N/A	(75%-125%)			
Lead	0.0500	U	ND		0.0467	mg/L		93.1	(75%-125%)			
Lithium	0.0500	U	ND		0.0614	mg/L		98.7	(75%-125%)			
Molybdenum	0.0500	J	0.00197		0.0555	mg/L		107	(75%-125%)			
Selenium	0.0500	U	ND		0.0540	mg/L		103	(75%-125%)			
Thallium	0.0500	U	ND		0.0439	mg/L		87.4	(75%-125%)			
QC1205855320 685645001 MSD												
Antimony	0.0500	U	ND		0.0510	mg/L	1.45	101	(0%-20%)		09/27/24	11:28
Arsenic	0.0500	U	ND		0.0526	mg/L	2.26	101	(0%-20%)			
Barium	0.0500	J	0.640		0.674	mg/L	2.82	N/A	(0%-20%)			
Beryllium	0.0500	U	ND		0.0464	mg/L	0.409	92.8	(0%-20%)			
Boron	0.100		0.424		0.497	mg/L	3.53	N/A	(0%-20%)			
Cadmium	0.0500	U	ND		0.0467	mg/L	2.08	93.2	(0%-20%)			
Chromium	0.0500	U	ND		0.0533	mg/L	0.98	99	(0%-20%)			

QC Summary

Workorder: **685645**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2672440												
Cobalt	0.0500	U	ND		0.0484	mg/L	0.526	96.8	(0%-20%)	PRB	09/27/24	11:28
Iron	2.00		118		117	mg/L	2.58	N/A	(0%-20%)			
Lead	0.0500	U	ND		0.0457	mg/L	2.16	91.1	(0%-20%)			
Lithium	0.0500	U	ND		0.0604	mg/L	1.77	96.5	(0%-20%)			
Molybdenum	0.0500	J	0.00197		0.0546	mg/L	1.55	105	(0%-20%)			
Selenium	0.0500	U	ND		0.0529	mg/L	1.95	100	(0%-20%)			
Thallium	0.0500	U	ND		0.0436	mg/L	0.469	87	(0%-20%)			
QC1205855321 685645001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/27/24	11:34
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium		J	128	J	26.0	ug/L	1.65		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Boron			84.8		16.7	ug/L	1.6		(0%-20%)			
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)			

QC Summary

Workorder: **685645**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2672440										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/27/24 11:34
Iron		23700		4810	ug/L	1.69		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	J	0.394	U	ND	ug/L	N/A		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2673473										
QC1205857286 685645001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/19/24 12:04
QC1205857285 LCS										
Mercury 0.00200				0.00203	mg/L		102	(80%-120%)		09/19/24 12:00
QC1205857284 MB										
Mercury			U	ND	mg/L					09/19/24 11:59
QC1205857287 685645001 MS										
Mercury 0.00200	U	ND		0.00184	mg/L		92.2	(75%-125%)		09/19/24 12:09
QC1205857288 685645001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/19/24 12:10

QC Summary

Workorder: **685645**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 685645

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2672440

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2672439

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685645001	MCM-INW-01
685645003	MCM-PT-01
685645004	MCM-PT-02
685645005	MCM-PT-03
685645006	MCM-DR-01
685645007	MCM-DR-02
685645008	MCM-DR-03
685645009	MCM-AP1-FD-01
685645010	MCM-AP1-FB-01
685645011	MCM-AP1-EB-01
685645012	MCM-INW-01
685645014	MCM-PT-01
685645015	MCM-PT-02
685645016	MCM-PT-03
685645017	MCM-DR-01
685645018	MCM-DR-02
685645019	MCM-DR-03
685645020	MCM-AP1-FD-01
1205855317	Method Blank (MB)**ICP-MS**
1205855318	Laboratory Control Sample (LCS)
1205855321	685645001(MCM-INW-01L) Serial Dilution (SD)
1205855319	685645001(MCM-INW-01S) Matrix Spike (MS)
1205855320	685645001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities

indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 685645001 (MCM-INW-01), 685645003 (MCM-PT-01), 685645004 (MCM-PT-02), 685645005 (MCM-PT-03), 685645006 (MCM-DR-01), 685645007 (MCM-DR-02), 685645008 (MCM-DR-03), 685645009 (MCM-AP1-FD-01), 685645012 (MCM-INW-01), 685645013 (MCM-MCM-06), 685645014 (MCM-PT-01), 685645015 (MCM-PT-02), 685645016 (MCM-PT-03), 685645017 (MCM-DR-01), 685645018 (MCM-DR-02), 685645019 (MCM-DR-03) and 685645020 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 685645001 (MCM-INW-01), 685645003 (MCM-PT-01), 685645004 (MCM-PT-02), 685645005 (MCM-PT-03), 685645006 (MCM-DR-01), 685645009 (MCM-AP1-FD-01), 685645012 (MCM-INW-01), 685645014 (MCM-PT-01), 685645015 (MCM-PT-02), 685645017 (MCM-DR-01) and 685645020 (MCM-AP1-FD-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	685645									
	001	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**012**	**014**
Antimony	5X	5X	5X	5X	5X	1X	1X	5X	5X	5X
Arsenic	5X	1X	1X	1X	1X	1X	1X	1X	5X	1X
Barium	5X	1X	1X	1X	5X	1X	1X	5X	5X	1X
Beryllium	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	5X	5X	5X	5X	1X	1X	5X	5X	5X
Chromium	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Cobalt	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Iron	5X	1X	1X	1X	1X	1X	5X	1X	5X	1X
Lead	5X	1X	1X	1X	5X	1X	1X	5X	5X	1X
Lithium	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Molybdenum	5X	5X	5X	5X	5X	1X	1X	5X	5X	5X
Selenium	5X	1X	1X	1X	1X	1X	1X	1X	5X	1X
Thallium	5X	1X	1X	1X	5X	1X	1X	5X	5X	1X

Analyte	685645					
	015	**016**	**017**	**018**	**019**	**020**
Antimony	5X	1X	5X	1X	1X	5X
Barium	1X	1X	5X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	5X
Cadmium	5X	1X	5X	1X	1X	5X
Iron	1X	1X	1X	1X	5X	1X
Lead	1X	1X	5X	1X	1X	1X
Molybdenum	5X	1X	5X	1X	1X	5X
Thallium	1X	1X	5X	1X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**

Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2673473

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2673471

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685645001	MCM-INW-01
685645003	MCM-PT-01
685645004	MCM-PT-02
685645005	MCM-PT-03
685645006	MCM-DR-01
685645007	MCM-DR-02
685645008	MCM-DR-03
685645009	MCM-AP1-FD-01
685645010	MCM-AP1-FB-01
685645011	MCM-AP1-EB-01
685645012	MCM-INW-01
685645014	MCM-PT-01
685645015	MCM-PT-02
685645016	MCM-PT-03
685645017	MCM-DR-01
685645018	MCM-DR-02
685645019	MCM-DR-03
685645020	MCM-AP1-FD-01
1205857284	Method Blank (MB)**CVAA**
1205857285	Laboratory Control Sample (LCS)
1205857288	685645001(MCM-INW-01L) Serial Dilution (SD)
1205857286	685645001(MCM-INW-01D) Sample Duplicate (DUP)
1205857287	685645001(MCM-INW-01S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2672211

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685645001	MCM-INW-01
685645002	MCM-MCM-06

685645003	MCM-PT-01
685645004	MCM-PT-02
685645005	MCM-PT-03
685645006	MCM-DR-01
685645007	MCM-DR-02
685645008	MCM-DR-03
685645009	MCM-AP1-FD-01
685645010	MCM-AP1-FB-01
685645011	MCM-AP1-EB-01
1205854699	Method Blank (MB)
1205854700	Laboratory Control Sample (LCS)
1205854701	685522001(MCM-MCM-04) Sample Duplicate (DUP)
1205854702	685522001(MCM-MCM-04) Post Spike (PS)
1205854703	685645007(MCM-DR-02) Sample Duplicate (DUP)
1205854704	685645007(MCM-DR-02) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205854701 (MCM-MCM-04DUP) and 1205854702 (MCM-MCM-04PS) were diluted because target analyte concentrations exceeded the calibration range. Samples 1205854703 (MCM-DR-02DUP), 1205854704 (MCM-DR-02PS), 685645001 (MCM-INW-01), 685645002 (MCM-MCM-06), 685645003 (MCM-PT-01), 685645004 (MCM-PT-02), 685645005 (MCM-PT-03), 685645006 (MCM-DR-01), 685645007 (MCM-DR-02), 685645008 (MCM-DR-03) and 685645009 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Samples 1205854703 (MCM-DR-02DUP), 1205854704 (MCM-DR-02PS), 685645001 (MCM-INW-01), 685645002 (MCM-MCM-06), 685645003 (MCM-PT-01), 685645004 (MCM-PT-02), 685645005 (MCM-PT-03), 685645006 (MCM-DR-01), 685645007 (MCM-DR-02), 685645008 (MCM-DR-03) and 685645009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	685645								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	500X	500X	500X	500X	500X	500X	500X	500X
Fluoride	20X	20X	20X	20X	20X	20X	20X	10X	20X
Sulfate	1000X	500X	500X	500X	500X	500X	500X	500X	500X

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: 685645
GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus 3-Week Sampling September 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, Natalie Piparo, Jay Lowert, William Laaker (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments
MCM-INW-01	09-12-24	1210	G	Y*	WG			3	X	X	X		Note: extra sample is required for sample specific QC
MCM-MCM-06	09-12-24	1012	G	Y*	WG			3	X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl
MCM-PT-01	09-12-24	1157	G	Y*	WG			3	X	X	X		
MCM-PT-02	09-12-24	1431	G	Y*	WG			3	X	X	X		
MCM-PT-03	09-12-24	1350	G	Y*	WG			3	X	X	X		
MCM-DR-01	09-12-24	1324	G	Y*	WG			3	X	X	X		
MCM-DR-02	09-12-24	1508	G	Y*	WG			3	X	X	X		
MCM-DR-03	09-12-24	1047	G	Y*	WG			3	X	X	X		
MCM-AP1-FD-01	09-12-24	—	FD	Y*	WG			3	X	X	X		
MCM-AP1-FB-01	09-12-24	1310	FB	N	WQ			2	X		X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1630		9/13/24	940
2				2		
3				3		

TAT Requested: Normal: __X__ Rush:_____ Specify: _____ (Subject to Surcharge)
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level
Additional Remarks: **Task Code: MCM-CCR-CA-20240909**
For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** 0 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic, **Ba** = Barium, **Cd** = Cadmium, **Cr** = Chromium, **Pb** = Lead, **Hg**= Mercury, **Se**= Selenium, **Ag**= Silver, **MR**= Misc. RCRA metals

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Page 54 of 57 SDG 685645

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko — Phone #

Project/Site Name: Plant McManus 3-Week Sampling September 2024 — Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo, Jay Stewert, William Laaker (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * *For composites - indicate start and stop date/time*	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list	Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments
									NI	NI			
MCM-AP1-EB-01	09-12-24	1314	EB	N	WQ			2	X		X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl

Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental			[signature]	9/13/24	940
2						
3						

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240909**

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* 0 °C

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Pg 53 of 67 ID: 665645

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM 685645

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 9/13/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 2754 8412 3180

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: [redacted] If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?			✓	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?			✓	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*			✓	Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 0C
4	~~Daily check performed and passed on IR temperature gun?~~	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?			✓	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?		✓		Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?				If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?			✓	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected:
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
13	COC form is properly signed in relinquished/received sections?			✓	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials VM Date 9/16/24 Page 1 of 1

List of current GEL Certifications as of 27 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 30, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR GW Compliance Sept 2024
Work Order: 685517

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 12, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. The sample ID "MCM-MCM-06" was removed from the original report to be included on separate reports 685517 and 685519. The client provided a revised chain of custody via email. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
685517001	MCM-MCM-06	Ground Water	09/12/24 10:12	09/12/24 14:30
685517002	MCM-MCM-06	Ground Water	09/12/24 10:12	09/12/24 14:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	14-SEP-2024
SW846 3005A	16-SEP-2024
SW846 7470A Prep	13-SEP-2024
SW846 7470A Prep	18-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	13-SEP-2024
EPA 300.0	14-SEP-2024
SM 2540C	19-SEP-2024

SW846	3005A/6020B	25-SEP-2024
SW846	3005A/6020B	27-SEP-2024
SW846	7470A	16-SEP-2024
SW846	7470A	19-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 685517 GEL Work Order: 685517

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N Metals--The Matrix spike sample recovery is not within specified control limits

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 30, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC00624
Sample ID:	685517001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 10:12		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3240	33.5	100	mg/L		500	CH6	09/14/24	1539	2672160	1
Fluoride	J	0.392	0.132	0.400	mg/L		4	CH6	09/14/24	1508	2672160	2
Sulfate		271	26.6	80.0	mg/L		200	CH6	09/13/24	2205	2672160	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/16/24	1301	2671700	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.745	0.0520	0.150	mg/L	1.00	10	PRB	09/25/24	0145	2671581	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/25/24	0054	2671581	6
Arsenic		0.107	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0727	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0435	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0550	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000895	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5340	23.8	100	mg/L			KLP1	09/19/24	1453	2674517	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/14/24	0845	2671579
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/13/24	1045	2671695

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 30, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC00624
Sample ID:	685517001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: September 30, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC00624
Sample ID:	685517002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-SEP-24 10:12		
Receive Date:	12-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/24	1235	2673473	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	09/27/24	1255	2672440	2
Arsenic		0.105	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0776	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0445	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0518	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000486	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00172	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.680	0.0260	0.0750	mg/L	1.00	5	PRB	09/27/24	1311	2672440	3

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/18/24	1035	2673471
SW846 3005A	ICP-MS 3005A PREP	PB1	09/16/24	1435	2672439

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 30, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR GW Compliance Sept 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC00624
Sample ID:	685517002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: September 30, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography												
Batch 2672160												
QC1205854609 685518002 DUP												
Chloride			16.4		16.4	mg/L	0.0292		(0%-20%)	CH6	09/14/24	17:11
Fluoride		U	ND	U	ND	mg/L	N/A				09/14/24	00:39
Sulfate			26.2		26.2	mg/L	0.026		(0%-20%)		09/14/24	17:11
QC1205854608 LCS												
Chloride	5.00				4.73	mg/L		94.5	(90%-110%)		09/13/24	19:06
Fluoride	2.50				2.37	mg/L		95	(90%-110%)			
Sulfate	10.0				9.54	mg/L		95.4	(90%-110%)			
QC1205854607 MB												
Chloride				U	ND	mg/L					09/13/24	18:36
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205854610 685518002 PS												
Chloride	5.00		8.22		13.9	mg/L		113*	(90%-110%)		09/14/24	17:42
Fluoride	2.50	U	ND		2.51	mg/L		101	(90%-110%)		09/14/24	01:10
Sulfate	10.0		13.1		23.4	mg/L		103	(90%-110%)		09/14/24	17:42

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671581										
QC1205853454 LCS										
Antimony	0.0500			0.0495	mg/L		98.9	(80%-120%)	PRB	09/25/24 00:50
Arsenic	0.0500			0.0490	mg/L		98	(80%-120%)		
Barium	0.0500			0.0509	mg/L		102	(80%-120%)		
Beryllium	0.0500			0.0568	mg/L		114	(80%-120%)		
Boron	0.100			0.112	mg/L		112	(80%-120%)		
Cadmium	0.0500			0.0507	mg/L		101	(80%-120%)		
Chromium	0.0500			0.0499	mg/L		99.8	(80%-120%)		
Cobalt	0.0500			0.0498	mg/L		99.6	(80%-120%)		
Iron	2.00			1.99	mg/L		99.6	(80%-120%)		
Lead	0.0500			0.0518	mg/L		104	(80%-120%)		
Lithium	0.0500			0.0545	mg/L		109	(80%-120%)		
Molybdenum	0.0500			0.0510	mg/L		102	(80%-120%)		
Selenium	0.0500			0.0514	mg/L		103	(80%-120%)		
Thallium	0.0500			0.0488	mg/L		97.7	(80%-120%)		

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671581										
QC1205853453 MB										
Antimony			U	ND	mg/L				PRB	09/25/24 00:47
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Selenium			U	ND	mg/L					
Thallium			U	ND	mg/L					

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2671581											
QC1205853455 685517001 MS											
Antimony	0.0500	U	ND		0.0479	mg/L		95.3	(75%-125%)	PRB	09/25/24 00:57
Arsenic	0.0500		0.107		0.152	mg/L		90.1	(75%-125%)		
Barium	0.0500		0.0727		0.121	mg/L		96.6	(75%-125%)		
Beryllium	0.0500	U	ND		0.0506	mg/L		101	(75%-125%)		
Boron	0.100		0.745		0.804	mg/L		N/A	(75%-125%)		09/25/24 01:56
Cadmium	0.0500	U	ND		0.0439	mg/L		87.7	(75%-125%)		09/25/24 00:57
Chromium	0.0500	U	ND		0.0470	mg/L		92.8	(75%-125%)		
Cobalt	0.0500	U	ND		0.0445	mg/L		88.8	(75%-125%)		
Iron	2.00	J	0.0435		1.85	mg/L		90.3	(75%-125%)		
Lead	0.0500	U	ND		0.0451	mg/L		90.1	(75%-125%)		
Lithium	0.0500		0.0550		0.108	mg/L		106	(75%-125%)		
Molybdenum	0.0500	J	0.000895		0.0541	mg/L		106	(75%-125%)		
Selenium	0.0500	U	ND		0.0196	mg/L		37.7*	(75%-125%)		
Thallium	0.0500	U	ND		0.0432	mg/L		86.2	(75%-125%)		

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2671581											
QC1205853456 685517001 MSD											
Antimony	0.0500	U	ND		0.0472	mg/L	1.65	93.7	(0%-20%)	PRB	09/25/24 01:01
Arsenic	0.0500		0.107		0.154	mg/L	1.3	94.1	(0%-20%)		
Barium	0.0500		0.0727		0.120	mg/L	1.05	94.1	(0%-20%)		
Beryllium	0.0500	U	ND		0.0488	mg/L	3.74	97.5	(0%-20%)		
Boron	0.100		0.745		0.837	mg/L	4.04	N/A	(0%-20%)		09/25/24 01:59
Cadmium	0.0500	U	ND		0.0431	mg/L	1.76	86.2	(0%-20%)		09/25/24 01:01
Chromium	0.0500	U	ND		0.0470	mg/L	0.113	92.9	(0%-20%)		
Cobalt	0.0500	U	ND		0.0444	mg/L	0.374	88.5	(0%-20%)		
Iron	2.00	J	0.0435		1.86	mg/L	0.377	90.7	(0%-20%)		
Lead	0.0500	U	ND		0.0441	mg/L	2.29	88.1	(0%-20%)		
Lithium	0.0500		0.0550		0.103	mg/L	4.68	96.4	(0%-20%)		
Molybdenum	0.0500	J	0.000895		0.0537	mg/L	0.663	106	(0%-20%)		
Selenium	0.0500	U	ND		0.0203	mg/L	3.4	39*	(0%-20%)		
Thallium	0.0500	U	ND		0.0427	mg/L	1.09	85.3	(0%-20%)		

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2671581												
QC1205865427 685517001 PS												
Selenium	50.0	U	ND		48.3	ug/L		95	(75%-125%)	PRB	09/25/24	01:05
QC1205853457 685517001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/25/24	01:08
Arsenic			107		24.5	ug/L	14.6		(0%-20%)			
Barium			72.7		15.7	ug/L	8.04		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Boron			74.5		15.9	ug/L	6.47		(0%-20%)		09/25/24	02:03
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/25/24	01:08
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Iron		J	43.5	U	ND	ug/L	N/A		(0%-20%)			
Lead		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium			55.0		10.4	ug/L	5.23		(0%-20%)			
Molybdenum		J	0.895	U	ND	ug/L	N/A		(0%-20%)			
Selenium		U	ND	U	ND	ug/L	N/A		(0%-20%)			

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2671581										
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/25/24 01:08
Batch 2672440										
QC1205855318 LCS										
Antimony	0.0500			0.0480	mg/L		96.1	(80%-120%)	PRB	09/27/24 11:19
Arsenic	0.0500			0.0480	mg/L		96	(80%-120%)		
Barium	0.0500			0.0496	mg/L		99.2	(80%-120%)		
Beryllium	0.0500			0.0552	mg/L		110	(80%-120%)		
Boron	0.100			0.109	mg/L		109	(80%-120%)		
Cadmium	0.0500			0.0493	mg/L		98.5	(80%-120%)		
Chromium	0.0500			0.0486	mg/L		97.2	(80%-120%)		
Cobalt	0.0500			0.0481	mg/L		96.3	(80%-120%)		
Iron	2.00			1.93	mg/L		96.6	(80%-120%)		
Lead	0.0500			0.0504	mg/L		101	(80%-120%)		
Lithium	0.0500			0.0533	mg/L		107	(80%-120%)		
Molybdenum	0.0500			0.0506	mg/L		101	(80%-120%)		

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2672440											
Selenium	0.0500			0.0489	mg/L		97.9	(80%-120%)	PRB	09/27/24	11:19
Thallium	0.0500			0.0479	mg/L		95.9	(80%-120%)			
QC1205855317 MB											
Antimony			U	ND	mg/L					09/27/24	11:16
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L						
Cadmium			U	ND	mg/L						
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Iron			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Molybdenum			J	0.000211	mg/L						

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2672440											
Selenium				U	ND	mg/L				PRB	09/27/24 11:16
Thallium				U	ND	mg/L					
QC1205855319 685645001 MS											
Antimony	0.0500	U	ND		0.0518	mg/L		103	(75%-125%)		09/27/24 11:25
Arsenic	0.0500	U	ND		0.0514	mg/L		99	(75%-125%)		
Barium	0.0500	J	0.640		0.693	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0466	mg/L		93.2	(75%-125%)		
Boron	0.100		0.424		0.515	mg/L		N/A	(75%-125%)		
Cadmium	0.0500	U	ND		0.0477	mg/L		95.2	(75%-125%)		
Chromium	0.0500	U	ND		0.0538	mg/L		100	(75%-125%)		
Cobalt	0.0500	U	ND		0.0486	mg/L		97.3	(75%-125%)		
Iron	2.00		118		120	mg/L		N/A	(75%-125%)		
Lead	0.0500	U	ND		0.0467	mg/L		93.1	(75%-125%)		
Lithium	0.0500	U	ND		0.0614	mg/L		98.7	(75%-125%)		
Molybdenum	0.0500	J	0.00197		0.0555	mg/L		107	(75%-125%)		

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2672440												
Selenium	0.0500	U	ND		0.0540	mg/L		103	(75%-125%)	PRB	09/27/24	11:25
Thallium	0.0500	U	ND		0.0439	mg/L		87.4	(75%-125%)			
QC1205855320 685645001 MSD												
Antimony	0.0500	U	ND		0.0510	mg/L	1.45	101	(0%-20%)		09/27/24	11:28
Arsenic	0.0500	U	ND		0.0526	mg/L	2.26	101	(0%-20%)			
Barium	0.0500	J	0.640		0.674	mg/L	2.82	N/A	(0%-20%)			
Beryllium	0.0500	U	ND		0.0464	mg/L	0.409	92.8	(0%-20%)			
Boron	0.100		0.424		0.497	mg/L	3.53	N/A	(0%-20%)			
Cadmium	0.0500	U	ND		0.0467	mg/L	2.08	93.2	(0%-20%)			
Chromium	0.0500	U	ND		0.0533	mg/L	0.98	99	(0%-20%)			
Cobalt	0.0500	U	ND		0.0484	mg/L	0.526	96.8	(0%-20%)			
Iron	2.00		118		117	mg/L	2.58	N/A	(0%-20%)			
Lead	0.0500	U	ND		0.0457	mg/L	2.16	91.1	(0%-20%)			
Lithium	0.0500	U	ND		0.0604	mg/L	1.77	96.5	(0%-20%)			
Molybdenum	0.0500	J	0.00197		0.0546	mg/L	1.55	105	(0%-20%)			

QC Summary

Workorder: **685517**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2672440												
Selenium	0.0500	U	ND		0.0529	mg/L	1.95	100	(0%-20%)	PRB	09/27/24	11:28
Thallium	0.0500	U	ND		0.0436	mg/L	0.469	87	(0%-20%)			
QC1205855321 685645001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/27/24	11:34
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium		J	128	J	26.0	ug/L	1.65		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Boron			84.8		16.7	ug/L	1.6		(0%-20%)			
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Iron			23700		4810	ug/L	1.69		(0%-20%)			
Lead		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Molybdenum		J	0.394	U	ND	ug/L	N/A		(0%-20%)			

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2672440										
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/27/24 11:34
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2671700										
QC1205853724 LCS										
Mercury 0.00200				0.00202	mg/L		101	(80%-120%)	JP2	09/16/24 12:42
QC1205853723 MB										
Mercury			U	ND	mg/L					09/16/24 12:40
QC1205853725 685379001 MS										
Mercury 0.0200	U	ND		0.0203	mg/L		101	(75%-125%)		09/16/24 12:48
QC1205853726 685379001 MSD										
Mercury 0.0200	U	ND		0.0202	mg/L	0.346	101	(0%-20%)		09/16/24 12:50
QC1205853727 685379001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/16/24 12:51
Batch 2673473										
QC1205857286 685645001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/19/24 12:04
QC1205857285 LCS										
Mercury 0.00200				0.00203	mg/L		102	(80%-120%)		09/19/24 12:00
QC1205857284 MB										
Mercury			U	ND	mg/L					09/19/24 11:59

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch 2673473											
QC1205857287 685645001 MS											
Mercury	0.00200	U	ND		0.00184	mg/L		92.2	(75%-125%)	JP2	09/19/24 12:09
QC1205857288 685645001 SDILT											
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)		09/19/24 12:10
Solids Analysis											
Batch 2674517											
QC1205859366 685705001 DUP											
Total Dissolved Solids		516		516	mg/L	0		(0%-5%)	KLP1	09/19/24 14:53	
QC1205859365 LCS											
Total Dissolved Solids	300			291	mg/L		97	(95%-105%)		09/19/24 14:53	
QC1205859364 MB											
Total Dissolved Solids			U	ND	mg/L					09/19/24 14:53	

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit

QC Summary

Workorder: **685517**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range

Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 685517

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2671581

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2671579

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685517001	MCM-MCM-06
1205853453	Method Blank (MB)**ICP-MS**
1205853454	Laboratory Control Sample (LCS)
1205853457	685517001(MCM-MCM-06L) Serial Dilution (SD)
1205853455	685517001(MCM-MCM-06S) Matrix Spike (MS)
1205853456	685517001(MCM-MCM-06SD) Matrix Spike Duplicate (MSD)
1205865427	685517001(MCM-MCM-06PS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analytes. The post spike recoveries were within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recoveries may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1205853455 (MCM-MCM-06MS)	Selenium	37.7* (75%-125%)
1205853456 (MCM-MCM-06MSD)	Selenium	39* (75%-125%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 685517001 (MCM-MCM-06) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	**685517**
	001
Boron	10X
Calcium	10X

Product: Determination of Metals by ICP-MS
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2672440

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2672439

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685517002	MCM-MCM-06
1205855317	Method Blank (MB)**ICP-MS**
1205855318	Laboratory Control Sample (LCS)
1205855321	685645001(NonSDGL) Serial Dilution (SD)
1205855319	685645001(NonSDGS) Matrix Spike (MS)
1205855320	685645001(NonSDGSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 685517002 (MCM-MCM-06) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	685517
	002
Boron	5X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 40
Analytical Batch: 2671700

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2671695

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685517001	MCM-MCM-06
1205853723	Method Blank (MB)**CVAA**
1205853724	Laboratory Control Sample (LCS)
1205853727	685379001(NonSDGL) Serial Dilution (SD)
1205853725	685379001(NonSDGS) Matrix Spike (MS)
1205853726	685379001(NonSDGSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Preparation Information
Samples in this SDG were prepared at a ten times dilution factor due to the miscellaneous liquid classification. 1205853725 (Non SDG 685379001MS), 1205853726 (Non SDG 685379001MSD) and 1205853727 (Non SDG 685379001SDILT).

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2673473

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2673471

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685517002	MCM-MCM-06
1205857284	Method Blank (MB)**CVAA**
1205857285	Laboratory Control Sample (LCS)
1205857288	685645001(NonSDGL) Serial Dilution (SD)
1205857286	685645001(NonSDGD) Sample Duplicate (DUP)
1205857287	685645001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2672160

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685517001	MCM-MCM-06
1205854607	Method Blank (MB)
1205854608	Laboratory Control Sample (LCS)
1205854609	685518002(MCM-MCM-02) Sample Duplicate (DUP)
1205854610	685518002(MCM-MCM-02) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205854610 (MCM-MCM-02PS)	113* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1205854609 (MCM-MCM-02DUP), 1205854610 (MCM-MCM-02PS) and 685517001 (MCM-MCM-06) were diluted because target analyte concentrations exceeded the calibration range. Sample 685517001 (MCM-MCM-06) was diluted to minimize matrix effects on instrument performance. Sample 685517001 (MCM-MCM-06) was diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	**685517001**
Chloride	500X
Fluoride	4X
Sulfate	200X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2674517

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
685517001	MCM-MCM-06
1205859364	Method Blank (MB)
1205859365	Laboratory Control Sample (LCS)
1205859366	685705001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 685517001 (MCM-MCM-06).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus 3-Week Sampling September 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, Natalie Piparo, Jay Siewert, William Laaker (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments
~~MCM-INW-01~~	09-12-24	1210	G	Y*	WG			3	X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl
MCM-MCM-06	09-12-24	1012	G	Y*	WG			3	X	X	X		
~~MCM-PT-01~~	09-12-24	1157	G	Y*	WG			3	X	X	X		
~~MCM-PT-02~~	09-12-24	1431	G	Y*	WG			3	X	X	X		
~~MCM-PT-03~~	09-12-24	1350	G	Y*	WG			3	X	X	X		
~~MCM-DR-01~~	09-12-24	1324	G	Y*	WG			3	X	X	X		
~~MCM-DR-02~~	09-12-24	1508	G	Y*	WG			3	X	X	X		
~~MCM-DR-03~~	09-12-24	1047	G	Y*	WG			3	X	X	X		
~~MCM-AP1-FD-01~~	09-12-24		FD	Y*	WG			3	X	X	X		
~~MCM-AP1-FB-01~~	09-12-24	1310	FB	N	WQ			2	X		X		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental			1		
2			2		
3			3		

TAT Requested: Normal: ___X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240909**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ *°C*

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) **Chain of Custody Number** = Client Determined

2.) **QC Codes:** **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) **Field Filtered:** For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) **Matrix Codes:** **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) **Sample Analysis Requested:** Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) **Preservative Type:** **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus 3-Week Sampling September 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, Natalie Piparo, Jay Siewert, William Laaker (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)
~~MCM-AP1-EB-01~~	09-12-24	1314	EB	N	WQ			2	X		X	Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental			1		
2			2		
3			3		

TAT Requested: Normal: ___X__ Rush:_____ Specify: _____ (Subject to Surcharge
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level
Additional Remarks: **Task Code: MCM-CCR-CA-20240909**
For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ °C
> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)
Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) **Chain of Custody Number = Client Determined**

2.) **QC Codes: N = Normal Sample, TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) **Field Filtered:** For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) **Matrix Codes: DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) **Sample Analysis Requested:** Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) **Preservative Type: HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

685517 685519

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko — Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 — Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Siewert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228						<-- Preservative Type (6)
MCM-MCM-01			G	N	WG				X	X	X	X	X						
MCM-MCM-02			G	N	WG				X	X	X	X	X						
MCM-MCM-04			G	N	WG				X	X	X	X	X						
MCM-MCM-05			G	N	WG				X	X	X	X	X						
MCM-MCM-06	9/12/24	1012	G	N	WG	N		7	X	X	X	X	X						
MCM-MCM-07			G	N	WG				X	X	X	X	X						
MCM-MCM-11			G	N	WG				X	X	X	X	X						
MCM-MCM-12			G	N	WG				X	X	X	X	X						
MCM-MCM-14			G	N	WG				X	X	X	X	X						
MCM-MCM-15			G	N	WG				X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/12/24	1430		9/12/24	1430
2						
3						

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2** 1 2376557

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples**~~

Project # GPCC00105
GEL Quote #: GELP22-0819
PO Number [1]:
COC Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, William Laaker, Jay Silvert, Natalie Piparo (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca) NI	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl) NI	Inorganics (Cl, F, SO4)	TDS	Radium 226/228 NI						<-- Preservative Type (6)
MCM-MCM-16			G	N	WG				X	X	X	X	X						
MCM-MCM-17			G	N	WG				X	X	X	X	X						
MCM-MCM-18			G	N	WG				X	X	X	X	X						
MCM-MCM-19			G	N	WG				X	X	X	X	X						
MCM-MCM-20			G	N	WG				X	X	X	X	X						
MCM-DPZ-02			G	N	WG				X	X	X	X	X						
MCM-AP1-FD-01			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FD-02			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FD-03			FD	N	WQ				X	X	X	X	X						
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] Resolute Environmental	9/12/24	1430	[signature]	9/12/24	1430
2						
3						

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ **°C**

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~*Dissolved Fe, Mn are the only Field Filterd Samples*~~.

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC

Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

GEL Work Order Number: **GEL Project Manager: Erin Trent**

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, William Laaker, Jay Sievert, Natalie Piparo (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228	<-- Preservative Type (6)	Comments
MCM-AP1-FB-			FB	N	WQ				X	X	X	X	X		Note: extra sample is required for sample specific QC
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X		
MCM-AP1-EB-			EB	N	WQ				X	X	X	X	X		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] Resolute Environmental	9/12/24	1430	1 [signature]	9/12/24	1430
2			2		
3			3		

TAT Requested: **Normal:** _____ **Rush:** _____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2024S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** _____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

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7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
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RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

~~***Dissolved Fe, Mn are the only Field Filterd Samples***~~

Page 32 of 345 SDG 668517

685517 685519 AP
685518 685521
685522 685524

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 9/12/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services (Courier) Other

Cooler 1 - 2° 3 - 18° RCHTRM 5 - 24° RCHTRM 7 - 20° RCHTRM
2 - 1° 4 - 2° 6 - 23° RCHTRM

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice (None) Other: RCHTRM *all temperatures are recorded in Celsius TEMP: See above with coolers
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR5-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HTB Date SEP 13 2024 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 30 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

October 04, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus 4-Week Sampling September 2024
Work Order: 686583

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 19, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. One of the shipping containers was not sealed. Dissolved metals including mercury is reported in this data package. All other analyses requested on the chain of custody were reported under GEL 686578. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
686583001	MCM-INW-01	Ground Water	09/18/24 12:22	09/19/24 09:40
686583002	MCM-MCM-06	Ground Water	09/18/24 11:56	09/19/24 09:40
686583003	MCM-PT-01	Ground Water	09/18/24 10:02	09/19/24 09:40
686583004	MCM-PT-02	Ground Water	09/18/24 15:37	09/19/24 09:40
686583005	MCM-PT-03	Ground Water	09/18/24 15:50	09/19/24 09:40
686583006	MCM-DR-01	Ground Water	09/18/24 11:07	09/19/24 09:40
686583007	MCM-DR-02	Ground Water	09/18/24 09:58	09/19/24 09:40
686583008	MCM-DR-03	Ground Water	09/18/24 10:35	09/19/24 09:40
686583009	MCM-AP1-FD-01	Ground Water	09/18/24 12:00	09/19/24 09:40

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	03-OCT-2024

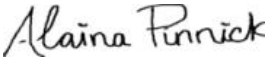
SW846 3005A	24-SEP-2024
SW846 7470A Prep	23-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	03-OCT-2024
SW846 3005A/6020B	04-OCT-2024
SW846 7470A	24-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 686583 GEL Work Order: 686583

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01124
Sample ID:	686583001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 12:22		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1404	2675717	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Sodium		3270	8.00	25.0	mg/L	1.00	100	BCD1	10/03/24	1354	2675662	2
Iron		68.0	0.165	0.500	mg/L	1.00	5	RM4	10/04/24	1053	2682375	3
Arsenic	U	ND	0.0200	0.0500	mg/L	1.00	10	BCD1	10/03/24	1446	2675662	4
Calcium		257	0.800	2.00	mg/L	1.00	10					
Magnesium		347	0.100	0.300	mg/L	1.00	10					
Selenium	U	ND	0.0150	0.0500	mg/L	1.00	10					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BCD1	10/03/24	1536	2675662	5
Barium	J	0.591	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.453	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.131	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		100	0.400	1.50	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675661
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714
SW846 3005A	ICP-MS 3005A PREP	PB1	10/03/24	1605	2682374

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01124
Sample ID:	686583001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01124
Sample ID:	686583002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 11:56		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1405	2675717	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1	BCD1	10/03/24	1306	2675662	2
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Manganese		0.152	0.00100	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BCD1	10/03/24	1556	2675662	3
Arsenic		0.118	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.0806	0.00335	2.00	mg/L	1.00	5					
Boron		0.750	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		145	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		86.3	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	RM4	10/04/24	1135	2682375	4
Sodium		1740	8.00	25.0	mg/L	1.00	100	BCD1	10/03/24	1411	2675662	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	BCD1	10/04/24	1003	2675662	6
Lithium		0.0561	0.00300	0.0400	mg/L	1.00	1					
Magnesium		250	0.100	0.300	mg/L	1.00	10	BCD1	10/03/24	1506	2675662	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	10/03/24	1605	2682374
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675661

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01124
Sample ID:	686583002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01124
Sample ID:	686583003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 10:02		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1407	2675717	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Iron	J	0.0711	0.0330	0.100	mg/L	1.00	1	RM4	10/04/24	1109	2682375	2
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BCD1	10/03/24	1559	2675662	3
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.726	0.00335	2.00	mg/L	1.00	5					
Boron		0.719	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		192	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Manganese		0.310	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		99.0	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Sodium		2370	8.00	25.0	mg/L	1.00	100	BCD1	10/03/24	1414	2675662	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	BCD1	10/04/24	1004	2675662	5
Lithium	J	0.0313	0.00300	0.0400	mg/L	1.00	1					
Magnesium		303	0.100	0.300	mg/L	1.00	10	BCD1	10/03/24	1509	2675662	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	10/03/24	1605	2682374
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675661
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01124
Sample ID:	686583003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01124
Sample ID:	686583004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 15:37		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1409	2675717	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Magnesium		275	0.100	0.300	mg/L	1.00	10	BCD1	10/03/24	1512	2675662	2
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	BCD1	10/04/24	1005	2675662	3
Lithium	J	0.0197	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BCD1	10/03/24	1602	2675662	4
Arsenic	J	0.0110	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.621	0.00335	2.00	mg/L	1.00	5					
Boron		0.597	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		181	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		83.2	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Sodium		2240	8.00	25.0	mg/L	1.00	100	BCD1	10/03/24	1417	2675662	5
Iron		3.50	0.0330	0.100	mg/L	1.00	1	RM4	10/04/24	1111	2682375	6
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1	BCD1	10/03/24	1312	2675662	7
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Manganese		0.264	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675661
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714
SW846 3005A	ICP-MS 3005A PREP	PB1	10/03/24	1605	2682374

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01124
Sample ID:	686583004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01124
Sample ID:	686583005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 15:50		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1410	2675717	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BCD1	10/03/24	1605	2675662	2
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.358	0.00335	2.00	mg/L	1.00	5					
Boron		0.637	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		173	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		84.0	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Magnesium		258	0.100	0.300	mg/L	1.00	10	BCD1	10/03/24	1514	2675662	3
Iron		2.05	0.0330	0.100	mg/L	1.00	1	RM4	10/04/24	1113	2682375	4
Sodium		2320	8.00	25.0	mg/L	1.00	100	BCD1	10/03/24	1420	2675662	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	BCD1	10/04/24	1006	2675662	6
Lithium	J	0.0296	0.00300	0.0400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1	BCD1	10/03/24	1315	2675662	7
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Manganese		0.0932	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675661
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714
SW846 3005A	ICP-MS 3005A PREP	PB1	10/03/24	1605	2682374

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01124
Sample ID:	686583005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01124
Sample ID:	686583006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 11:07		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1412	2675717	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Magnesium		318	0.100	0.300	mg/L	1.00	10	BCD1	10/03/24	1517	2675662	2
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	BCD1	10/04/24	1007	2675662	3
Lithium		0.0415	0.00300	0.0400	mg/L	1.00	1					
Sodium		2320	8.00	25.0	mg/L	1.00	100	BCD1	10/03/24	1423	2675662	4
Iron		0.132	0.0330	0.100	mg/L	1.00	1	RM4	10/04/24	1115	2682375	5
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BCD1	10/03/24	1607	2675662	6
Arsenic	J	0.0160	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.387	0.00335	2.00	mg/L	1.00	5					
Boron		0.676	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		182	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		92.2	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1	BCD1	10/03/24	1318	2675662	7
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Manganese		0.196	0.00100	0.00500	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714
SW846 3005A	ICP-MS 3005A PREP	PB1	10/03/24	1605	2682374
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675661

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01124
Sample ID:	686583006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01124
Sample ID:	686583007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 09:58		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1413	2675717	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Iron		0.142	0.0330	0.100	mg/L	1.00	1	RM4	10/04/24	1117	2682375	2
Sodium		1640	8.00	25.0	mg/L	1.00	100	BCD1	10/03/24	1425	2675662	3
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	BCD1	10/04/24	1008	2675662	4
Lithium		0.0503	0.00300	0.0400	mg/L	1.00	1					
Arsenic		0.0652	0.0100	0.0250	mg/L	1.00	5	BCD1	10/03/24	1610	2675662	5
Boron		0.910	0.0260	0.0750	mg/L	1.00	5					
Calcium		113	0.400	1.00	mg/L	1.00	5					
Magnesium		197	0.0500	0.150	mg/L	1.00	5					
Potassium		77.1	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	BCD1	10/03/24	1321	2675662	6
Barium	J	0.0697	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.0925	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000557	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	10/03/24	1605	2682374
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675661

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Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01124
Sample ID:	686583007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01124
Sample ID:	686583008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 10:35		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1419	2675717	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Sodium		1200	8.00	25.0	mg/L	1.00	100	BCD1	10/03/24	1428	2675662	2
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	BCD1	10/03/24	1613	2675662	3
Boron		0.861	0.0260	0.0750	mg/L	1.00	5					
Calcium		96.4	0.400	1.00	mg/L	1.00	5					
Magnesium		115	0.0500	0.150	mg/L	1.00	5					
Potassium		52.8	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	BCD1	10/03/24	1323	2675662	4
Barium	J	0.0340	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.679	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000834	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Iron		155	0.165	0.500	mg/L	1.00	5	RM4	10/04/24	1133	2682375	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	BCD1	10/04/24	1009	2675662	6
Lithium		0.0479	0.00300	0.0400	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714
SW846 3005A	ICP-MS 3005A PREP	PB1	10/03/24	1605	2682374
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675661

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01124
Sample ID:	686583008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01124
Sample ID:	686583009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 12:00		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1420	2675717	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	BCD1	10/03/24	1616	2675662	2
Arsenic	J	0.0102	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.587	0.00335	2.00	mg/L	1.00	5					
Boron		0.567	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		175	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		81.4	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Iron		3.49	0.0330	0.100	mg/L	1.00	1	RM4	10/04/24	1121	2682375	3
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	BCD1	10/04/24	1010	2675662	4
Lithium	J	0.0184	0.00300	0.0400	mg/L	1.00	1					
Sodium		2100	8.00	25.0	mg/L	1.00	100	BCD1	10/03/24	1431	2675662	5
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1	BCD1	10/03/24	1326	2675662	6
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Manganese		0.254	0.00100	0.00500	mg/L	1.00	1					
Magnesium		264	0.100	0.300	mg/L	1.00	10	BCD1	10/03/24	1526	2675662	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM7	09/24/24	0830	2675661
SW846 3005A	ICP-MS 3005A PREP	PB1	10/03/24	1605	2682374
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 4, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01124
Sample ID:	686583009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: October 4, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **686583**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2675662											
QC1205861593 LCS											
Antimony	0.0500			0.0507	mg/L		101	(80%-120%)	BCD1	10/03/24	13:51
Arsenic	0.0500			0.0508	mg/L		102	(80%-120%)			
Barium	0.0500			0.0524	mg/L		105	(80%-120%)			
Beryllium	0.0500			0.0543	mg/L		109	(80%-120%)			
Boron	0.100			0.120	mg/L		120	(80%-120%)			
Cadmium	0.0500			0.0502	mg/L		100	(80%-120%)			
Calcium	2.00			2.28	mg/L		114	(80%-120%)			
Chromium	0.0500			0.0502	mg/L		100	(80%-120%)			
Cobalt	0.0500			0.0506	mg/L		101	(80%-120%)			
Lead	0.0500			0.0491	mg/L		98.2	(80%-120%)			
Lithium	0.0500			0.0534	mg/L		107	(80%-120%)			
Magnesium	2.00			2.28	mg/L		114	(80%-120%)			

QC Summary

Workorder: **686583**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2675662										
Manganese	0.0500			0.0527	mg/L		105	(80%-120%)	BCD1	10/03/24 13:51
Molybdenum	0.0500			0.0499	mg/L		99.8	(80%-120%)		
Potassium	2.00			2.29	mg/L		115	(80%-120%)		
Selenium	0.0500			0.0548	mg/L		110	(80%-120%)		
Sodium	2.00			2.25	mg/L		113	(80%-120%)		
Thallium	0.0500			0.0473	mg/L		94.5	(80%-120%)		
QC1205861592 MB										
Antimony			U	ND	mg/L					10/03/24 13:48
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					

QC Summary

Workorder: **686583**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2675662										
Cobalt			U	ND	mg/L				BCD1	10/03/24 13:48
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			J	0.00212	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205861594 686583001 MS										
Antimony	0.0500	U	ND	0.0503	mg/L		101	(75%-125%)		10/03/24 15:39
Arsenic	0.0500	U	ND	0.0523	mg/L		102	(75%-125%)		10/03/24 14:49
Barium	0.0500	J	0.591	0.634	mg/L		N/A	(75%-125%)		10/03/24 15:39
Beryllium	0.0500	U	ND	0.0457	mg/L		91.5	(75%-125%)		

QC Summary

Workorder: **686583**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2675662											
Boron	0.100		0.453		0.540	mg/L		N/A	(75%-125%)	BCD1	10/03/24 15:39
Cadmium	0.0500	U	ND		0.0465	mg/L		93.1	(75%-125%)		
Calcium	2.00		257		253	mg/L		N/A	(75%-125%)		10/03/24 14:49
Chromium	0.0500	U	ND		0.0473	mg/L		94.4	(75%-125%)		10/03/24 15:39
Cobalt	0.0500	U	ND		0.0463	mg/L		92.5	(75%-125%)		
Lead	0.0500	U	ND		0.0437	mg/L		87.3	(75%-125%)		
Lithium	0.0500	U	ND		0.0596	mg/L		99.7	(75%-125%)		
Magnesium	2.00		347		342	mg/L		N/A	(75%-125%)		10/03/24 14:49
Manganese	0.0500		0.131		0.177	mg/L		92.1	(75%-125%)		10/03/24 15:39
Molybdenum	0.0500	U	ND		0.0535	mg/L		106	(75%-125%)		
Potassium	2.00		100		101	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0555	mg/L		103	(75%-125%)		10/03/24 14:49
Sodium	2.00		3270		3250	mg/L		N/A	(75%-125%)		10/03/24 13:57
Thallium	0.0500	U	ND		0.0429	mg/L		85.9	(75%-125%)		10/03/24 15:39

QC Summary

Workorder: **686583**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2675662											
QC1205861595 686583001 MSD											
Antimony	0.0500	U	ND		0.0505	mg/L	0.347	101	(0%-20%)	BCD1	10/03/24 15:42
Arsenic	0.0500	U	ND		0.0521	mg/L	0.345	102	(0%-20%)		10/03/24 14:52
Barium	0.0500	J	0.591		0.622	mg/L	1.89	N/A	(0%-20%)		10/03/24 15:42
Beryllium	0.0500	U	ND		0.0453	mg/L	0.989	90.6	(0%-20%)		
Boron	0.100		0.453		0.540	mg/L	0.0305	N/A	(0%-20%)		
Cadmium	0.0500	U	ND		0.0457	mg/L	1.76	91.4	(0%-20%)		
Calcium	2.00		257		250	mg/L	1.12	N/A	(0%-20%)		10/03/24 14:52
Chromium	0.0500	U	ND		0.0480	mg/L	1.51	95.8	(0%-20%)		10/03/24 15:42
Cobalt	0.0500	U	ND		0.0463	mg/L	0.0972	92.6	(0%-20%)		
Lead	0.0500	U	ND		0.0434	mg/L	0.62	86.8	(0%-20%)		
Lithium	0.0500	U	ND		0.0593	mg/L	0.454	99.2	(0%-20%)		
Magnesium	2.00		347		341	mg/L	0.279	N/A	(0%-20%)		10/03/24 14:52
Manganese	0.0500		0.131		0.175	mg/L	1	88.6	(0%-20%)		10/03/24 15:42
Molybdenum	0.0500	U	ND		0.0525	mg/L	2.03	104	(0%-20%)		

QC Summary

Workorder: **686583**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2675662											
Potassium	2.00		100		99.9	mg/L	0.933	N/A	(0%-20%)	BCD1	10/03/24 15:42
Selenium	0.0500	U	ND		0.0581	mg/L	4.7	109	(0%-20%)		10/03/24 14:52
Sodium	2.00		3270		3200	mg/L	1.55	N/A	(0%-20%)		10/03/24 14:00
Thallium	0.0500	U	ND		0.0428	mg/L	0.409	85.5	(0%-20%)		10/03/24 15:42
QC1205861596 686583001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/03/24 15:47
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/03/24 14:57
Barium		J	118	J	23.6	ug/L	.293		(0%-20%)		10/03/24 15:47
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			90.5		20.9	ug/L	15.3		(0%-20%)		
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Calcium			25700		5100	ug/L	.8		(0%-20%)		10/03/24 14:57
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/03/24 15:47
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **686583**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2675662										
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)	BCD1	10/03/24 15:47
Magnesium		34700		7140	ug/L	2.96		(0%-20%)		10/03/24 14:57
Manganese		26.2		5.38	ug/L	2.51		(0%-20%)		10/03/24 15:47
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Potassium		20000		4020	ug/L	.593		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		10/03/24 14:57
Sodium		32700		6650	ug/L	1.61		(0%-20%)		10/03/24 14:03
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		10/03/24 15:47
Batch 2682375										
QC1205861593 LCS										
Iron	2.00			2.00	mg/L		100	(80%-120%)	RM4	10/04/24 10:51
QC1205861592 MB										
Iron			U	ND	mg/L					10/04/24 10:49
QC1205876028 686583002 MS										
Iron	2.00	U		ND	1.71	mg/L		84.1	(75%-125%)	10/04/24 11:37
QC1205876029 686583002 MSD										
Iron	2.00	U		ND	1.71	mg/L	0.146	84.2	(0%-20%)	10/04/24 11:39

QC Summary

Workorder: **686583**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2682375										
QC1205876030 686583002 SDILT										
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)	RM4	10/04/24 11:43
Metals Analysis-Mercury										
Batch 2675717										
QC1205861724 686578001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/24/24 13:34
QC1205861723 LCS										
Mercury	0.00200			0.00199	mg/L		99.5	(80%-120%)		09/24/24 13:31
QC1205861722 MB										
Mercury			U	ND	mg/L					09/24/24 13:29
QC1205861725 686578001 MS										
Mercury	0.00200	U	ND	0.00180	mg/L		89.8	(75%-125%)		09/24/24 13:39
QC1205861726 686578001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/24/24 13:40

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.

QC Summary

Workorder: **686583**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

ND Analyte concentration is not detected above the detection limit

E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 686583

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2675662

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2675661

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
686583001	MCM-INW-01
686583002	MCM-MCM-06
686583003	MCM-PT-01
686583004	MCM-PT-02
686583005	MCM-PT-03
686583006	MCM-DR-01
686583007	MCM-DR-02
686583008	MCM-DR-03
686583009	MCM-AP1-FD-01
1205861592	Method Blank (MB)**ICP-MS**
1205861593	Laboratory Control Sample (LCS)
1205861596	686583001(MCM-INW-01L) Serial Dilution (SD)
1205861594	686583001(MCM-INW-01S) Matrix Spike (MS)
1205861595	686583001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 686583001 (MCM-INW-01), 686583002 (MCM-MCM-06), 686583003 (MCM-PT-01), 686583004 (MCM-PT-02), 686583005 (MCM-PT-03), 686583006 (MCM-DR-01), 686583007 (MCM-DR-02), 686583008 (MCM-DR-03) and 686583009 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the

SOP, samples 686583001 (MCM-INW-01), 686583002 (MCM-MCM-06), 686583003 (MCM-PT-01), 686583004 (MCM-PT-02), 686583005 (MCM-PT-03), 686583006 (MCM-DR-01), 686583007 (MCM-DR-02), 686583008 (MCM-DR-03) and 686583009 (MCM-AP1-FD-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	686583								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Antimony	5X	5X	5X	5X	5X	5X	1X	1X	5X
Arsenic	10X	5X	5X	5X	5X	5X	5X	5X	5X
Barium	5X	5X	5X	5X	5X	5X	1X	1X	5X
Beryllium	5X	1X	1X	1X	1X	1X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	5X	5X	5X	5X	5X	1X	1X	5X
Calcium	10X	5X	5X	5X	5X	5X	5X	5X	5X
Chromium	5X	1X	5X	1X	1X	1X	1X	1X	1X
Cobalt	5X	1X	5X	1X	1X	1X	1X	1X	1X
Lead	5X	5X	5X	5X	5X	5X	1X	1X	5X
Lithium	5X	1X	1X	1X	1X	1X	1X	1X	1X
Magnesium	10X	10X	10X	10X	10X	10X	5X	5X	10X
Manganese	5X	1X	5X	1X	1X	1X	1X	1X	1X
Molybdenum	5X	5X	5X	5X	5X	5X	1X	1X	5X
Potassium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Selenium	10X	5X	5X	5X	5X	5X	5X	5X	5X
Sodium	100X	100X	100X	100X	100X	100X	100X	100X	100X
Thallium	5X	5X	5X	5X	5X	5X	1X	1X	5X

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2682375

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2682374

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
686583001	MCM-INW-01
686583002	MCM-MCM-06
686583003	MCM-PT-01
686583004	MCM-PT-02
686583005	MCM-PT-03
686583006	MCM-DR-01
686583007	MCM-DR-02
686583008	MCM-DR-03
686583009	MCM-AP1-FD-01
1205861592	Method Blank (MB)**ICP-MS**

1205861593	Laboratory Control Sample (LCS)
1205876030	686583002(MCM-MCM-06L) Serial Dilution (SD)
1205876028	686583002(MCM-MCM-06S) Matrix Spike (MS)
1205876029	686583002(MCM-MCM-06SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 686583001 (MCM-INW-01) and 686583008 (MCM-DR-03) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	686583	
	001	008
Iron	5X	5X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2675717

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2675714

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
686583001	MCM-INW-01
686583002	MCM-MCM-06
686583003	MCM-PT-01
686583004	MCM-PT-02
686583005	MCM-PT-03
686583006	MCM-DR-01
686583007	MCM-DR-02
686583008	MCM-DR-03
686583009	MCM-AP1-FD-01
1205861722	Method Blank (MB)**CVAA**

1205861723	Laboratory Control Sample (LCS)
1205861726	686578001(MCM-INW-01L) Serial Dilution (SD)
1205861724	686578001(MCM-INW-01D) Sample Duplicate (DUP)
1205861725	686578001(MCM-INW-01S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: 686578 686583

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 4-Week Sampling September 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo, Kevin Stephenson, William Laaker (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Page 36 of 41 SDG: 686583

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)
MCM-INW-01	9/17/24	1222	G	Y*	WG			5	X	X	X	X	X	Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl*
MCM-MCM-06	9/17/24	1156	G	Y*	WG			5	X	X	X	X	X	
MCM-PT-01	9/17/24	1002	G	Y*	WG			5	X	X	X	X	X	
MCM-PT-02	9/17/24	1537	G	Y*	WG			5	X	X	X	X	X	
MCM-PT-03	9/17/24	1550	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-01	9/18/24	1107	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-02	9/18/24	0958	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-03	9/17/24	1035	G	Y*	WG			5	X	X	X	X	X	
MCM-AP1-FD-01	9/17/24	—	FD	Y*	WG			5	X	X	X	X	X	
MCM-AP1-FB-01	9/18/24	1258	FB	N	WQ			5	X		X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/18/24	1420	Fed Ex	9/18/24	
2					9/19/24	940
3						

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

TAT Requested: Normal: ___X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: Task Code: MCM-CCR-CA-20240916 237554

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 0 °C

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: ***GEL Project Manager: Erin Trent***

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 4-Week Sampling September 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo, Kevin Stephenson, William Laaker (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)					<-- Preservative Type (6)
MCM-AP1-EB-01	9/18/24	1308	EB	N	WQ			5	X		X	X	X					Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental			1	9/12/24	548
2			2		
3			3		

TAT Requested: Normal: ___X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240916** 237554

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

****Dissolved metals are the only Field Filterd Samples****

Page 37 of 41 SDG: 660583

686578
686583

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 9/19/24
Carrier and Tracking Number	Circle Applicable: (FedEx Express) FedEx Ground UPS Field Services Courier Other 2724 5025 4381

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?			Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?			COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / uR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?			COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?			If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?				Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*				Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 0 c
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?				Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?				If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?				ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?				ID's and containers affected:
10	Date & time on COC match date & time on bottles?				Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) HB 9/23/24
11	Number of containers received match number indicated on COC?				Circle Applicable: No container count on COC (Other (describe)) ~~Missing cooler~~ HB 9/23/24
12	Are sample containers identifiable as GEL provided by use of GEL labels?				
13	COC form is properly signed in relinquished/received sections?				Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials VM Date 9/20/24 Page 1 of 1

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 9/20/24
Carrier and Tracking Number	Circle Applicable: (FedEx Express) FedEx Ground UPS Field Services Courier Other 2796 5025 4370

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM / mR/Hr) **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?		✓		Circle Applicable: Seals broken Damaged container Leaking container (Other (describe)) cooler not sealed when arrived
2	Chain of custody documents included with shipment?		✓		Circle Applicable: Client contacted and provided COC COC created upon receipt received in cooler on 9/19/24
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None (Other:) *all temperatures are recorded in Celsius melted ice TEMP: 1c
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?		✓		If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?		✓		ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?		✓		ID's and containers affected:
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) HB 9/24/24
11	Number of containers received match number indicated on COC?		✓		Circle Applicable: No container count on COC (Other (describe)) ~~missing cooler from 9/19/24~~ HB 9/24/24
12	Are sample containers identifiable as GEL provided by use of GEL labels?		✓		
13	COC form is properly signed in relinquished/received sections?		✓		Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

~~Missing containers for MEM-AP1-EB-01 and FB-01 (1 dissolved metals per ID)~~
HB 9/23/24

PM (or PMA) review: Initials HB Date SEP 23 2024 Page 1 of 1

Outlook

Receipt Notification- Plant McManus 686578 & 686583

From Hannah Bowden <Hannah.Bowden@gel.com>
Date Tue 9/24/2024 9:09 AM
To KNJURINK@SOUTHERNCO.COM <KNJURINK@SOUTHERNCO.COM>; MJSMILLE@SOUTHERNCO.COM <MJSMILLE@SOUTHERNCO.COM>; NSMUSKUS@SOUTHERNCO.COM <NSMUSKUS@SOUTHERNCO.COM>; lbmidkif@southernco.com <lbmidkif@southernco.com>; kathryn.farris@arcadis.com <kathryn.farris@arcadis.com>
Cc Team Pinnick <Team.Pinnick@gel.com>

1 attachments (2 MB)
686578coc.pdf;

Good morning,

Notifying you that one of the shipping coolers for samples received, 9/19/24 and 9/20/24, was not sealed and did not contain a chain of custody. The chain of custody was received in the first cooler that was delivered on 9/19/24. There is no response needed! Please see the attached COC for reference..

Hannah Bowden
Project Manager Assistant
GEL Laboratories LLC EST. 1981
2040 Savage Road, Charleston, SC 29407 |
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Hannah.Bowden@gel.com | Website: www.gel.com

List of current GEL Certifications as of 04 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

November 11, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus 4-Week Sampling September 2024
Work Order: 686578

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 19, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 686578 in the left-hand footer of the data report. Revision 01 corrects the collection dates for GEL sample IDs 686578006 and 686578007 from 9/17/24 to 9/18/24.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. One of the shipping containers was not sealed. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
686578001	MCM-INW-01	Ground Water	09/17/24 12:22	09/19/24 09:40
686578002	MCM-MCM-06	Ground Water	09/17/24 11:56	09/19/24 09:40
686578003	MCM-PT-01	Ground Water	09/17/24 10:02	09/19/24 09:40
686578004	MCM-PT-02	Ground Water	09/17/24 15:37	09/19/24 09:40
686578005	MCM-PT-03	Ground Water	09/17/24 15:50	09/19/24 09:40
686578006	MCM-DR-01	Ground Water	09/18/24 11:07	09/19/24 09:40
686578007	MCM-DR-02	Ground Water	09/18/24 09:58	09/19/24 09:40
686578008	MCM-DR-03	Ground Water	09/17/24 10:35	09/19/24 09:40
686578009	MCM-AP1-FD-01	Ground Water	09/17/24 12:00	09/19/24 09:40
686578010	MCM-AP1-FB-01	Ground Water	09/18/24 12:58	09/19/24 09:40
686578011	MCM-AP1-EB-01	Ground Water	09/18/24 13:08	09/19/24 09:40

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

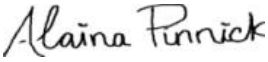
Method	Run Date ID
SW846 3005A	21-SEP-2024
SW846 7470A Prep	23-SEP-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	23-SEP-2024
EPA 300.0	24-SEP-2024
SM 2320B	20-SEP-2024
SM 2540C	24-SEP-2024
SM 2540C	25-SEP-2024
SW846 3005A/6020B	01-OCT-2024
SW846 3005A/6020B	02-OCT-2024
SW846 3005A/6020B	03-OCT-2024
SW846 7470A	24-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 686578 GEL Work Order: 686578

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01124
Sample ID:	686578001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-SEP-24 12:22		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5520	67.0	200	mg/L		1000	CWW	09/23/24	1935	2676424	1
Sulfate		1010	133	400	mg/L		1000					
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/24/24	1317	2676424	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1332	2675717	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0253	2675467	4
Arsenic	J	0.00235	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.539	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.00988	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.119	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.00103	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00170	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		320	0.100	0.300	mg/L	1.00	10	PRB	10/03/24	0311	2675467	5
Boron		0.449	0.0260	0.0750	mg/L	1.00	5	PRB	10/01/24	2350	2675467	6
Calcium		239	0.400	1.00	mg/L	1.00	5					
Iron		76.6	0.165	0.500	mg/L	1.00	5					
Potassium		88.2	0.400	1.50	mg/L	1.00	5					
Sodium		3140	8.00	25.0	mg/L	1.00	100	PRB	10/03/24	0333	2675467	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		10900	23.8	100	mg/L			KLP1	09/24/24	1050	2676253	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		135	0.725	2.00	mg/L			HH2	09/20/24	1221	2675517	9
Bicarbonate alkalinity (CaCO3)		135	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01124
Sample ID:	686578001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01124
Sample ID:	686578002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-SEP-24 11:56		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.594	0.330	1.00	mg/L		10	CWW	09/24/24	1628	2676424	1
Chloride		3080	33.5	100	mg/L		500	CWW	09/23/24	2111	2676424	2
Sulfate		296	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1344	2675717	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Boron		0.759	0.0260	0.0750	mg/L	1.00	5	PRB	10/02/24	0030	2675467	4
Calcium		136	0.400	1.00	mg/L	1.00	5					
Magnesium		231	0.0500	0.150	mg/L	1.00	5					
Potassium		76.0	0.400	1.50	mg/L	1.00	5					
Sodium		1660	8.00	25.0	mg/L	1.00	100	PRB	10/03/24	0352	2675467	5
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0348	2675467	6
Arsenic		0.101	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0782	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0453	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0535	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.145	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000904	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6140	23.8	100	mg/L			KLP1	09/24/24	1050	2676253	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		321	0.725	2.00	mg/L			HH2	09/20/24	1223	2675517	8
Bicarbonate alkalinity (CaCO3)		321	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01124
Sample ID:	686578002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01124
Sample ID:	686578003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-SEP-24 10:02		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4270	33.5	100	mg/L		500	CWW	09/23/24	2143	2676424	1
Sulfate		548	66.5	200	mg/L		500					
Fluoride	J	0.395	0.330	1.00	mg/L		10	CWW	09/24/24	1700	2676424	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1345	2675717	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0410	2675467	4
Arsenic	J	0.00991	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.684	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.320	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0299	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.279	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000643	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		283	0.100	0.300	mg/L	1.00	10	PRB	10/03/24	0355	2675467	5
Sodium		2270	8.00	25.0	mg/L	1.00	100	PRB	10/03/24	0359	2675467	6
Boron		0.726	0.0260	0.0750	mg/L	1.00	5	PRB	10/02/24	0034	2675467	7
Calcium		183	0.400	1.00	mg/L	1.00	5					
Potassium		85.9	0.400	1.50	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8460	23.8	100	mg/L			KLP1	09/24/24	1050	2676253	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		229	0.725	2.00	mg/L			HH2	09/20/24	1228	2675517	9
Bicarbonate alkalinity (CaCO3)		229	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01124
Sample ID:	686578003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01124
Sample ID:	686578004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-SEP-24 15:37		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	09/24/24	1732	2676424	1
Chloride		3890	33.5	100	mg/L		500	CWW	09/23/24	2214	2676424	2
Sulfate		513	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1347	2675717	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Sodium		2100	8.00	25.0	mg/L	1.00	100	PRB	10/03/24	0425	2675467	4
Boron		0.582	0.0260	0.0750	mg/L	1.00	5	PRB	10/02/24	0037	2675467	5
Calcium		169	0.400	1.00	mg/L	1.00	5					
Magnesium		248	0.0500	0.150	mg/L	1.00	5					
Potassium		73.2	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0414	2675467	6
Arsenic		0.0120	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.578	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		3.62	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0195	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.248	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000804	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00209	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8000	23.8	100	mg/L			KLP1	09/24/24	1050	2676253	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		209	0.725	2.00	mg/L			HH2	09/20/24	1232	2675517	8
Bicarbonate alkalinity (CaCO3)		209	0.725	2.00	mg/L							

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01124
Sample ID:	686578004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01124
Sample ID:	686578005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-SEP-24 15:50		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.398	0.330	1.00	mg/L		10	CWW	09/24/24	1804	2676424	1
Chloride		3870	33.5	100	mg/L		500	CWW	09/23/24	2246	2676424	2
Sulfate		505	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1349	2675717	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Sodium		2150	8.00	25.0	mg/L	1.00	100	PRB	10/03/24	0428	2675467	4
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0417	2675467	5
Arsenic		0.0109	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.344	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		3.10	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0285	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.0930	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000453	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00158	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.641	0.0260	0.0750	mg/L	1.00	5	PRB	10/02/24	0041	2675467	6
Calcium		160	0.400	1.00	mg/L	1.00	5					
Magnesium		229	0.0500	0.150	mg/L	1.00	5					
Potassium		72.1	0.400	1.50	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7530	23.8	100	mg/L			KLP1	09/24/24	1050	2676253	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		210	0.725	2.00	mg/L			HH2	09/20/24	1239	2675517	8
Bicarbonate alkalinity (CaCO3)		210	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01124
Sample ID:	686578005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01124
Sample ID:	686578006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 11:07		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.409	0.330	1.00	mg/L		10	CWW	09/24/24	1835	2676424	1
Chloride		4190	33.5	100	mg/L		500	CWW	09/23/24	2318	2676424	2
Sulfate		498	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1350	2675717	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0421	2675467	4
Arsenic		0.0180	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.372	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.223	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0419	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.194	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000551	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.727	0.0260	0.0750	mg/L	1.00	5	PRB	10/02/24	0103	2675467	5
Calcium		175	0.400	1.00	mg/L	1.00	5					
Potassium		82.3	0.400	1.50	mg/L	1.00	5					
Sodium		2250	8.00	25.0	mg/L	1.00	100	PRB	10/03/24	0501	2675467	6
Magnesium		313	0.100	0.300	mg/L	1.00	10	PRB	10/03/24	0432	2675467	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8560	23.8	100	mg/L			KLP1	09/24/24	1050	2676253	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		236	0.725	2.00	mg/L			HH2	09/20/24	1243	2675517	9
Bicarbonate alkalinity (CaCO3)		236	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01124
Sample ID:	686578006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01124
Sample ID:	686578007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-SEP-24 09:58		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2690	33.5	100	mg/L		500	CWW	09/23/24	2350	2676424	1
Sulfate		329	66.5	200	mg/L		500					
Fluoride	J	0.618	0.330	1.00	mg/L		10	CWW	09/24/24	1907	2676424	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1352	2675717	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0443	2675467	4
Arsenic		0.0652	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0692	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		1.32	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0489	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.0951	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.00110	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.898	0.0260	0.0750	mg/L	1.00	5	PRB	10/02/24	0106	2675467	5
Calcium		105	0.400	1.00	mg/L	1.00	5					
Magnesium		173	0.0500	0.150	mg/L	1.00	5					
Potassium		67.3	0.400	1.50	mg/L	1.00	5					
Sodium		1640	8.00	25.0	mg/L	1.00	100	PRB	10/03/24	0505	2675467	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5730	23.8	100	mg/L			KLP1	09/24/24	1050	2676253	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		306	0.725	2.00	mg/L			HH2	09/20/24	1247	2675517	8
Bicarbonate alkalinity (CaCO3)		306	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01124
Sample ID:	686578007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01124
Sample ID:	686578008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-SEP-24 10:35		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.03	0.330	1.00	mg/L		10	CWW	09/24/24	1939	2676424	1
Chloride		2070	33.5	100	mg/L		500	CWW	09/24/24	0157	2676424	2
Sulfate		338	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1354	2675717	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0447	2675467	4
Arsenic	J	0.00371	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0345	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0472	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.660	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000959	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.844	0.0260	0.0750	mg/L	1.00	5	PRB	10/02/24	0110	2675467	5
Calcium		89.1	0.400	1.00	mg/L	1.00	5					
Magnesium		101	0.0500	0.150	mg/L	1.00	5					
Potassium		45.6	0.400	1.50	mg/L	1.00	5					
Iron		165	3.30	10.0	mg/L	1.00	100	PRB	10/03/24	0508	2675467	6
Sodium		1130	8.00	25.0	mg/L	1.00	100					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4350	23.8	100	mg/L			KLP1	09/24/24	1050	2676253	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		180	0.725	2.00	mg/L			HH2	09/20/24	1252	2675517	8
Bicarbonate alkalinity (CaCO3)		180	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01124
Sample ID:	686578008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01124
Sample ID:	686578009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-SEP-24 12:00		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3880	33.5	100	mg/L		500	CWW	09/24/24	0229	2676424	1
Sulfate		534	66.5	200	mg/L		500					
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	09/24/24	2011	2676424	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1359	2675717	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Boron		0.579	0.0260	0.0750	mg/L	1.00	5	PRB	10/02/24	0132	2675467	4
Calcium		165	0.400	1.00	mg/L	1.00	5					
Magnesium		247	0.0500	0.150	mg/L	1.00	5					
Potassium		72.2	0.400	1.50	mg/L	1.00	5					
Sodium		2060	8.00	25.0	mg/L	1.00	100	PRB	10/03/24	0512	2675467	5
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0450	2675467	6
Arsenic		0.0125	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.581	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		3.64	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0199	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.256	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000798	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00209	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7640	23.8	100	mg/L			KLP1	09/24/24	1050	2676253	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		211	0.725	2.00	mg/L			HH2	09/20/24	1255	2675517	8
Bicarbonate alkalinity (CaCO3)		211	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01124
Sample ID:	686578009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01124
Sample ID:	686578010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	18-SEP-24 12:58		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/24/24	0333	2676424	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1400	2675717	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0454	2675467	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron	J	0.00812	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Magnesium	J	0.0135	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Sodium	J	0.168	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/25/24	1128	2677630	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			HH2	09/20/24	1259	2675517	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01124
Sample ID:	686578010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01124
Sample ID:	686578011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	18-SEP-24 13:08		
Receive Date:	19-SEP-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/24/24	0405	2676424	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/24/24	1402	2675717	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/03/24	0458	2675467	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	09/25/24	1128	2677630	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			HH2	09/20/24	1301	2675517	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: November 11, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 4-Week Sampling September 2024

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01124
Sample ID:	686578011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	09/21/24	1010	2675466
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	09/23/24	1100	2675714

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: November 11, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **686578**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography													
Batch 2676424													
QC1205863548 686578001 DUP													
Chloride			5520		5520	mg/L	0.0109			(0%-20%)	CWW	09/23/24	20:07
Fluoride		U	ND	U	ND	mg/L	N/A					09/24/24	13:49
Sulfate			1010		934	mg/L	7.31	^		(+/-400)		09/23/24	20:07
QC1205863547 LCS													
Chloride	5.00				4.77	mg/L			95.3	(90%-110%)		09/23/24	18:00
Fluoride	2.50				2.43	mg/L			97.1	(90%-110%)			
Sulfate	10.0				9.71	mg/L			97.1	(90%-110%)			
QC1205863546 MB													
Chloride				U	ND	mg/L						09/23/24	13:45
Fluoride				U	ND	mg/L							
Sulfate				U	ND	mg/L							
QC1205863549 686578001 PS													
Chloride	5.00		5.52		10.7	mg/L			103	(90%-110%)		09/23/24	20:39
Fluoride	2.50	U	ND		2.47	mg/L			98.9	(90%-110%)		09/24/24	14:21
Sulfate	10.0		1.01		10.4	mg/L			93.5	(90%-110%)		09/23/24	20:39

QC Summary

Workorder: **686578**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2675467										
QC1205861292 LCS										
Antimony	0.0500			0.0494	mg/L		98.8	(80%-120%)	PRB	10/03/24 02:42
Arsenic	0.0500			0.0493	mg/L		98.5	(80%-120%)		
Barium	0.0500			0.0506	mg/L		101	(80%-120%)		
Beryllium	0.0500			0.0557	mg/L		111	(80%-120%)		
Boron	0.100			0.107	mg/L		107	(80%-120%)		
Cadmium	0.0500			0.0495	mg/L		99.1	(80%-120%)		
Calcium	2.00			2.11	mg/L		105	(80%-120%)		
Chromium	0.0500			0.0481	mg/L		96.1	(80%-120%)		
Cobalt	0.0500			0.0482	mg/L		96.4	(80%-120%)		
Iron	2.00			1.94	mg/L		97.1	(80%-120%)		
Lead	0.0500			0.0497	mg/L		99.5	(80%-120%)		
Lithium	0.0500			0.0523	mg/L		105	(80%-120%)		
Magnesium	2.00			2.03	mg/L		101	(80%-120%)		
Manganese	0.0500			0.0474	mg/L		94.9	(80%-120%)		

QC Summary

Workorder: **686578**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2675467										
Molybdenum	0.0500			0.0501	mg/L		100	(80%-120%)	PRB	10/03/24 02:42
Potassium	2.00			1.97	mg/L		98.6	(80%-120%)		
Selenium	0.0500			0.0517	mg/L		103	(80%-120%)		
Sodium	2.00			2.07	mg/L		103	(80%-120%)		
Thallium	0.0500			0.0480	mg/L		96.1	(80%-120%)		
QC1205861291 MB										
Antimony			U	ND	mg/L					10/03/24 02:38
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **686578**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2675467										
Iron			U	ND	mg/L				PRB	10/03/24 02:38
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			J	0.000259	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205861293 686578001 MS										
Antimony	0.0500	U	ND	0.0474	mg/L		94.3	(75%-125%)		10/03/24 02:57
Arsenic	0.0500	J	0.00235	0.0455	mg/L		86.2	(75%-125%)		
Barium	0.0500	J	0.539	0.592	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND	0.0459	mg/L		91.7	(75%-125%)		

QC Summary

Workorder: **686578**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2675467											
Boron	0.100		0.449		0.524	mg/L		N/A	(75%-125%)	PRB	10/01/24 23:54
Cadmium	0.0500	U	ND		0.0412	mg/L		82.4	(75%-125%)		10/03/24 02:57
Calcium	2.00		239		230	mg/L		N/A	(75%-125%)		10/01/24 23:54
Chromium	0.0500	U	ND		0.0482	mg/L		91.8	(75%-125%)		10/03/24 02:57
Cobalt	0.0500	U	ND		0.0428	mg/L		85.4	(75%-125%)		
Iron	2.00		76.6		74.2	mg/L		N/A	(75%-125%)		10/01/24 23:54
Lead	0.0500	U	ND		0.0420	mg/L		83.9	(75%-125%)		10/03/24 02:57
Lithium	0.0500	J	0.00988		0.0604	mg/L		101	(75%-125%)		
Magnesium	2.00		320		314	mg/L		N/A	(75%-125%)		10/03/24 03:15
Manganese	0.0500		0.119		0.165	mg/L		92.4	(75%-125%)		10/03/24 02:57
Molybdenum	0.0500	J	0.00103		0.0561	mg/L		110	(75%-125%)		
Potassium	2.00		88.2		87.9	mg/L		N/A	(75%-125%)		10/01/24 23:54
Selenium	0.0500	J	0.00170		0.0464	mg/L		89.4	(75%-125%)		10/03/24 02:57
Sodium	2.00		3140		3000	mg/L		N/A	(75%-125%)		10/03/24 03:37

QC Summary

Workorder: **686578**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2675467											
Thallium	0.0500	U	ND		0.0417	mg/L		83.1	(75%-125%)	PRB	10/03/24 02:57
QC1205861294 686578001 MSD											
Antimony	0.0500	U	ND		0.0463	mg/L	2.19	92.3	(0%-20%)		10/03/24 03:00
Arsenic	0.0500	J	0.00235		0.0451	mg/L	0.839	85.5	(0%-20%)		
Barium	0.0500	J	0.539		0.585	mg/L	1.3	N/A	(0%-20%)		
Beryllium	0.0500	U	ND		0.0457	mg/L	0.4	91.3	(0%-20%)		
Boron	0.100		0.449		0.523	mg/L	0.162	N/A	(0%-20%)		10/01/24 23:57
Cadmium	0.0500	U	ND		0.0407	mg/L	1.26	81.4	(0%-20%)		10/03/24 03:00
Calcium	2.00		239		227	mg/L	1.52	N/A	(0%-20%)		10/01/24 23:57
Chromium	0.0500	U	ND		0.0476	mg/L	1.17	90.6	(0%-20%)		10/03/24 03:00
Cobalt	0.0500	U	ND		0.0423	mg/L	1.1	84.5	(0%-20%)		
Iron	2.00		76.6		73.9	mg/L	0.406	N/A	(0%-20%)		10/01/24 23:57
Lead	0.0500	U	ND		0.0416	mg/L	0.928	83.2	(0%-20%)		10/03/24 03:00
Lithium	0.0500	J	0.00988		0.0596	mg/L	1.22	99.5	(0%-20%)		
Magnesium	2.00		320		303	mg/L	3.54	N/A	(0%-20%)		10/03/24 03:19

QC Summary

Workorder: **686578**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2675467											
Manganese	0.0500		0.119		0.163	mg/L	1.69	86.9	(0%-20%)	PRB	10/03/24 03:00
Molybdenum	0.0500	J	0.00103		0.0549	mg/L	2.02	108	(0%-20%)		
Potassium	2.00		88.2		86.2	mg/L	1.99	N/A	(0%-20%)		10/01/24 23:57
Selenium	0.0500	J	0.00170		0.0471	mg/L	1.43	90.7	(0%-20%)		10/03/24 03:00
Sodium	2.00		3140		3000	mg/L	0.055	N/A	(0%-20%)		10/03/24 03:41
Thallium	0.0500	U	ND		0.0408	mg/L	2.2	81.3	(0%-20%)		10/03/24 03:00
QC1205861295 686578001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/03/24 03:08
Arsenic		J	2.35	U	ND	ug/L	N/A		(0%-20%)		
Barium		J	539	J	118	ug/L	9.4		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			89.8		19.2	ug/L	6.96		(0%-20%)		10/02/24 00:05
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/03/24 03:08
Calcium			47700		9600	ug/L	.524		(0%-20%)		10/02/24 00:05
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/03/24 03:08

QC Summary

Workorder: **686578**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2675467										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	10/03/24 03:08
Iron		15300		3160	ug/L	3		(0%-20%)		10/02/24 00:05
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		10/03/24 03:08
Lithium	J	9.88	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		32000		6510	ug/L	1.82		(0%-20%)		10/03/24 03:22
Manganese		119		25.8	ug/L	8.1		(0%-20%)		10/03/24 03:08
Molybdenum	J	1.03	J	0.344	ug/L	66.5		(0%-20%)		
Potassium		17600		3510	ug/L	.384		(0%-20%)		10/02/24 00:05
Selenium	J	1.70	U	ND	ug/L	N/A		(0%-20%)		10/03/24 03:08
Sodium		31400		6400	ug/L	1.96		(0%-20%)		10/03/24 03:44
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		10/03/24 03:08
Metals Analysis-Mercury										
Batch 2675717										
QC1205861724 686578001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/24/24 13:34
QC1205861723 LCS										
Mercury	0.00200			0.00199	mg/L		99.5	(80%-120%)		09/24/24 13:31

QC Summary

Workorder: **686578**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2675717										
QC1205861722 MB										
Mercury			U	ND	mg/L				JP2	09/24/24 13:29
QC1205861725 686578001 MS										
Mercury	0.00200 U	ND		0.00180	mg/L		89.8	(75%-125%)		09/24/24 13:39
QC1205861726 686578001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		09/24/24 13:40
Solids Analysis										
Batch 2676253										
QC1205863107 686320003 DUP										
Total Dissolved Solids		212		222	mg/L	4.61		(0%-5%)	KLP1	09/24/24 10:50
QC1205863106 LCS										
Total Dissolved Solids	300			299	mg/L		99.7	(95%-105%)		09/24/24 10:50
QC1205863105 MB										
Total Dissolved Solids			U	ND	mg/L					09/24/24 10:50
Batch 2677630										
QC1205865957 686477001 DUP										
Total Dissolved Solids		933		928	mg/L	0.537		(0%-5%)	KLP1	09/25/24 11:28
QC1205865956 LCS										
Total Dissolved Solids	300			292	mg/L		97.3	(95%-105%)		09/25/24 11:28
QC1205865955 MB										
Total Dissolved Solids			U	ND	mg/L					09/25/24 11:28

QC Summary

Workorder: **686578**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2675517										
QC1205861415 LCS										
Alkalinity, Total as CaCO3	50.0			52.6	mg/L		105		HH2	09/20/24 12:06
QC1205861416 LCS										
Alkalinity, Total as CaCO3	15.0			15.7	mg/L		105			09/20/24 12:09
QC1205861417 LCSD										
Alkalinity, Total as CaCO3	50.0			52.5	mg/L	0.19	105			09/20/24 12:07
QC1205861418 LCSD										
Alkalinity, Total as CaCO3	15.0			15.6	mg/L	0.639	104			09/20/24 12:11

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies

QC Summary

Workorder: **686578**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2675467

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2675466

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
686578001	MCM-INW-01
686578002	MCM-MCM-06
686578003	MCM-PT-01
686578004	MCM-PT-02
686578005	MCM-PT-03
686578006	MCM-DR-01
686578007	MCM-DR-02
686578008	MCM-DR-03
686578009	MCM-AP1-FD-01
686578010	MCM-AP1-FB-01
686578011	MCM-AP1-EB-01
1205861291	Method Blank (MB)**ICP-MS**
1205861292	Laboratory Control Sample (LCS)
1205861295	686578001(MCM-INW-01L) Serial Dilution (SD)
1205861293	686578001(MCM-INW-01S) Matrix Spike (MS)
1205861294	686578001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 686578001 (MCM-INW-01), 686578002

(MCM-MCM-06), 686578003 (MCM-PT-01), 686578004 (MCM-PT-02), 686578005 (MCM-PT-03), 686578006 (MCM-DR-01), 686578007 (MCM-DR-02), 686578008 (MCM-DR-03) and 686578009 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	686578								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X
Calcium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Iron	5X	1X	1X	1X	1X	1X	1X	100X	1X
Magnesium	10X	5X	10X	5X	5X	10X	5X	5X	5X
Potassium	5X	5X	5X	5X	5X	5X	5X	5X	5X
Sodium	100X	100X	100X	100X	100X	100X	100X	100X	100X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2675717

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2675714

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
686578001	MCM-INW-01
686578002	MCM-MCM-06
686578003	MCM-PT-01
686578004	MCM-PT-02
686578005	MCM-PT-03
686578006	MCM-DR-01
686578007	MCM-DR-02
686578008	MCM-DR-03
686578009	MCM-AP1-FD-01
686578010	MCM-AP1-FB-01
686578011	MCM-AP1-EB-01
1205861722	Method Blank (MB)**CVAA**
1205861723	Laboratory Control Sample (LCS)
1205861726	686578001(MCM-INW-01L) Serial Dilution (SD)
1205861724	686578001(MCM-INW-01D) Sample Duplicate (DUP)
1205861725	686578001(MCM-INW-01S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2676424

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
686578001	MCM-INW-01
686578002	MCM-MCM-06
686578003	MCM-PT-01
686578004	MCM-PT-02
686578005	MCM-PT-03
686578006	MCM-DR-01
686578007	MCM-DR-02
686578008	MCM-DR-03
686578009	MCM-AP1-FD-01
686578010	MCM-AP1-FB-01
686578011	MCM-AP1-EB-01
1205863546	Method Blank (MB)
1205863547	Laboratory Control Sample (LCS)
1205863548	686578001(MCM-INW-01) Sample Duplicate (DUP)
1205863549	686578001(MCM-INW-01) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
Samples 1205863548 (MCM-INW-01DUP), 1205863549 (MCM-INW-01PS), 686578001 (MCM-INW-01), 686578002 (MCM-MCM-06), 686578003 (MCM-PT-01), 686578004 (MCM-PT-02), 686578005 (MCM-PT-03), 686578006 (MCM-DR-01), 686578007 (MCM-DR-02), 686578008 (MCM-DR-03) and 686578009 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Samples 686578001 (MCM-INW-01), 686578002 (MCM-MCM-06), 686578003 (MCM-PT-01), 686578004 (MCM-PT-02), 686578005 (MCM-PT-03), 686578006 (MCM-DR-01), 686578007 (MCM-DR-02), 686578008 (MCM-DR-03) and 686578009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	686578								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	500X	500X	500X	500X	500X	500X	500X	500X
Fluoride	20X	10X	10X	10X	10X	10X	10X	10X	10X
Sulfate	1000X	500X	500X	500X	500X	500X	500X	500X	500X

Sample Re-analysis
Sample was re-analyzed to verify the results. The results from the reanalysis are reported. 1205863547 (LCS).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2676253

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
686578001	MCM-INW-01
686578002	MCM-MCM-06
686578003	MCM-PT-01
686578004	MCM-PT-02
686578005	MCM-PT-03
686578006	MCM-DR-01
686578007	MCM-DR-02
686578008	MCM-DR-03
686578009	MCM-AP1-FD-01
1205863105	Method Blank (MB)
1205863106	Laboratory Control Sample (LCS)
1205863107	686320003(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to limited sample volume. 1205863107 (Non SDG 686320003DUP). A reduced aliquot was used due to historical information. 686578001 (MCM-INW-01), 686578002 (MCM-MCM-06), 686578003 (MCM-PT-01), 686578004 (MCM-PT-02), 686578005 (MCM-PT-03), 686578006 (MCM-DR-01), 686578007 (MCM-DR-02), 686578008 (MCM-DR-03) and 686578009 (MCM-AP1-FD-01).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2677630

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
686578010	MCM-AP1-FB-01
686578011	MCM-AP1-EB-01
1205865955	Method Blank (MB)
1205865956	Laboratory Control Sample (LCS)
1205865957	686477001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2675517

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
686578001	MCM-INW-01
686578002	MCM-MCM-06
686578003	MCM-PT-01
686578004	MCM-PT-02
686578005	MCM-PT-03
686578006	MCM-DR-01
686578007	MCM-DR-02
686578008	MCM-DR-03
686578009	MCM-AP1-FD-01
686578010	MCM-AP1-FB-01
686578011	MCM-AP1-EB-01
1205861415	Laboratory Control Sample (LCS)
1205861416	Laboratory Control Sample (LCS)
1205861417	Laboratory Control Sample Duplicate (LCSD)
1205861418	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: 686578 686583

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 4-Week Sampling September 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo, Kevin Stephenson, William Laaker (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)
MCM-INW-01	9/17/24	1222	G	Y*	WG			5	X	X	X	X	X	Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl*
MCM-MCM-06	9/17/24	1156	G	Y*	WG			5	X	X	X	X	X	
MCM-PT-01	9/17/24	1002	G	Y*	WG			5	X	X	X	X	X	
MCM-PT-02	9/17/24	1537	G	Y*	WG			5	X	X	X	X	X	
MCM-PT-03	9/17/24	1550	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-01	9/18/24	1107	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-02	9/18/24	0958	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-03	9/17/24	1035	G	Y*	WG			5	X	X	X	X	X	
MCM-AP1-FD-01	9/17/24	—	FD	Y*	WG			5	X	X	X	X	X	
MCM-AP1-FB-01	9/18/24	1258	FB	N	WQ			5	X		X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	9/18/24	1420	Fed Ex	9/18/24	
2					9/19/24	940
3						

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: Task Code: MCM-CCR-CA-20240916 237554

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 2 °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 4-Week Sampling September 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo, Kevin Stephenson, William Laaker (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list	NI	Dissolved Metals* (6020B) - see list	NI	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)					<-- Preservative Type (6)
MCM-AP1-EB-01	9/18/24	1308	EB	N	WQ			5	X				X	X	X					Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 Resolute Environmental			1	9/12/24	840
2			2		
3			3		

TAT Requested: Normal: __X__ Rush:_____ Specify: _____ **(Subject to Surcharge**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240916** 237554

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** 0 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

686578
686583

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 9/19/24
Carrier and Tracking Number	Circle Applicable: (FedEx Express) FedEx Ground UPS Field Services Courier Other 2794 5025 4381

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM / uR/Hr) **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 0 c
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?			✓	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) HB 9/23/24
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC (Other (describe)) Missing cooler HB 9/23/24
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials VM Date 9/20/24 Page 1 of 1

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 9/20/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 2796 5025 4370

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?			✓	Circle Applicable: Seals broken Damaged container Leaking container Other(describe) cooler not sealed when arrived
2	Chain of custody documents included with shipment?			✓	Circle Applicable: Client contacted and provided COC COC created upon receipt received in cooler on 9/19/24
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*			✓	Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius melted ice TEMP: 1c
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?			✓	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?			✓	ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected:
10	Date & time on COC match date & time on bottles?			✓	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) HB 9/24/24
11	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Other (describe) ~~missing cooler from 9/19/24~~ HB 9/24/24
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
13	COC form is properly signed in relinquished/received sections?			✓	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

~~Missing containers for MEM-AP1-EB-01 and FB-01 (1 dissolved metals per HDF~~
HB 9/23/24

PM (or PMA) review: Initials HB Date SEP 23 2024 Page 1 of 1

Outlook

Receipt Notification- Plant McManus 686578 & 686583

From Hannah Bowden <Hannah.Bowden@gel.com>
Date Tue 9/24/2024 9:09 AM
To KNJURINK@SOUTHERNCO.COM <KNJURINK@SOUTHERNCO.COM>; MJSMILLE@SOUTHERNCO.COM <MJSMILLE@SOUTHERNCO.COM>; NSMUSKUS@SOUTHERNCO.COM <NSMUSKUS@SOUTHERNCO.COM>; lbmidkif@southernco.com <lbmidkif@southernco.com>; kathryn.farris@arcadis.com <kathryn.farris@arcadis.com>
Cc Team Pinnick <Team.Pinnick@gel.com>

1 attachments (2 MB)
686578coc.pdf;

Good morning,

Notifying you that one of the shipping coolers for samples received, 9/19/24 and 9/20/24, was not sealed and did not contain a chain of custody. The chain of custody was received in the first cooler that was delivered on 9/19/24. There is no response needed! Please see the attached COC for reference..

Hannah Bowden
Project Manager Assistant
GEL Laboratories LLC EST. 1981
2040 Savage Road, Charleston, SC 29407 |
Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Hannah.Bowden@gel.com | Website: www.gel.com

List of current GEL Certifications as of 11 November 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-42
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

October 15, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus 6-Week Sampling September 2024 Week 6
Work Order: 688692

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 03, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
688692001	MCM-INW-01	Ground Water	10/02/24 10:16	10/03/24 09:10
688692002	MCM-MCM-06	Ground Water	10/01/24 11:10	10/03/24 09:10
688692003	MCM-PT-01	Ground Water	10/01/24 12:58	10/03/24 09:10
688692004	MCM-PT-02	Ground Water	10/02/24 10:12	10/03/24 09:10
688692005	MCM-PT-03	Ground Water	10/01/24 13:36	10/03/24 09:10
688692006	MCM-DR-01	Ground Water	10/01/24 16:43	10/03/24 09:10
688692007	MCM-DR-02	Ground Water	10/01/24 16:37	10/03/24 09:10
688692008	MCM-DR-03	Ground Water	10/01/24 11:47	10/03/24 09:10
688692009	MCM-AP1-FD-01	Ground Water	10/01/24 12:00	10/03/24 09:10

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	04-OCT-2024
SW846 7470A Prep	07-OCT-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	13-OCT-2024
SW846 3005A/6020B	14-OCT-2024
SW846 7470A	08-OCT-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,

Kierra McKnight for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 688692 GEL Work Order: 688692

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-INW-01	Project:	GPCC01224
Sample ID:	688692001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	02-OCT-24 10:16		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000770	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1135	2682987	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	10/14/24	1356	2682269	2
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.546	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.482	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		32.4	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	J	0.00198	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682267

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-INW-01	Project:	GPCC01224
Sample ID:	688692001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-MCM-06	Project:	GPCC01224
Sample ID:	688692002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 11:10		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000750	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1137	2682987	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic		0.103	0.00200	0.0100	mg/L	1.00	1	PRB	10/13/24	2252	2682269	2
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0462	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0550	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000366	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00155	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/14/24	1458	2682269	3
Barium	J	0.105	0.000670	2.00	mg/L	1.00	1					
Boron		0.740	0.0520	0.150	mg/L	1.00	10	PRB	10/14/24	1422	2682269	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682267

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-MCM-06	Project:	GPCC01224
Sample ID:	688692002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-01	Project:	GPCC01224
Sample ID:	688692003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 12:58		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000770	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1138	2682987	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic		0.0108	0.00200	0.0100	mg/L	1.00	1	PRB	10/13/24	2255	2682269	2
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0929	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0321	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000412	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00162	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/14/24	1502	2682269	3
Barium	J	0.659	0.000670	2.00	mg/L	1.00	1					
Boron		0.777	0.0520	0.150	mg/L	1.00	10	PRB	10/14/24	1426	2682269	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682267
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-01	Project:	GPCC01224
Sample ID:	688692003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-02	Project:	GPCC01224
Sample ID:	688692004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	02-OCT-24 10:12		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000770	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1140	2682987	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/14/24	1506	2682269	2
Barium	J	0.485	0.000670	2.00	mg/L	1.00	1					
Boron		0.673	0.0520	0.150	mg/L	1.00	10	PRB	10/14/24	1429	2682269	3
Arsenic		0.0279	0.00200	0.0100	mg/L	1.00	1	PRB	10/13/24	2259	2682269	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.763	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0253	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000483	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00183	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682267

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-02	Project:	GPCC01224
Sample ID:	688692004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-03	Project:	GPCC01224
Sample ID:	688692005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 13:36		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000810	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1141	2682987	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Boron		0.690	0.0520	0.150	mg/L	1.00	10	PRB	10/14/24	1433	2682269	2
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/14/24	1509	2682269	3
Barium	J	0.255	0.000670	2.00	mg/L	1.00	1					
Arsenic	J	0.00855	0.00200	0.0100	mg/L	1.00	1	PRB	10/13/24	2303	2682269	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.518	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0320	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000284	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00159	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682267

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-03	Project:	GPCC01224
Sample ID:	688692005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-01	Project:	GPCC01224
Sample ID:	688692006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 16:43		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000740	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1143	2682987	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic		0.0219	0.00200	0.0100	mg/L	1.00	1	PRB	10/13/24	2306	2682269	2
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.272	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0419	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000376	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00180	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.746	0.0520	0.150	mg/L	1.00	10	PRB	10/14/24	1437	2682269	3
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/14/24	1513	2682269	4
Barium	J	0.338	0.000670	2.00	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682267
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

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Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-01	Project:	GPCC01224
Sample ID:	688692006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-02	Project:	GPCC01224
Sample ID:	688692007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 16:37		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000790	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1145	2682987	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Boron		0.870	0.0520	0.150	mg/L	1.00	10	PRB	10/14/24	1440	2682269	2
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/14/24	1517	2682269	3
Barium	J	0.0714	0.000670	2.00	mg/L	1.00	1					
Arsenic		0.0521	0.00200	0.0100	mg/L	1.00	1	PRB	10/13/24	2310	2682269	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0369	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0468	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000595	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00163	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682267

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-02	Project:	GPCC01224
Sample ID:	688692007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-03	Project:	GPCC01224
Sample ID:	688692008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 11:47		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000780	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1146	2682987	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Boron		0.911	0.0520	0.150	mg/L	1.00	10	PRB	10/14/24	1444	2682269	2
Iron		89.7	0.330	1.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/14/24	1520	2682269	3
Barium	J	0.0312	0.000670	2.00	mg/L	1.00	1					
Arsenic	J	0.00243	0.00200	0.0100	mg/L	1.00	1	PRB	10/13/24	2314	2682269	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0437	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000675	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682267
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-03	Project:	GPCC01224
Sample ID:	688692008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01224
Sample ID:	688692009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 12:00		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000750	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1151	2682987	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/14/24	1524	2682269	2
Barium	J	0.0699	0.000670	2.00	mg/L	1.00	1					
Boron		0.883	0.0520	0.150	mg/L	1.00	10	PRB	10/14/24	1447	2682269	3
Arsenic		0.0516	0.00200	0.0100	mg/L	1.00	1	PRB	10/13/24	2317	2682269	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0491	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0465	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000603	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682267

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: October 15, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01224
Sample ID:	688692009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: October 15, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **688692**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2682269										
QC1205874965 LCS										
Antimony	0.0500			0.0499	mg/L		99.7	(80%-120%)	PRB	10/14/24 13:53
Arsenic	0.0500			0.0487	mg/L		97.4	(80%-120%)		10/13/24 22:22
Barium	0.0500			0.0514	mg/L		103	(80%-120%)		10/14/24 13:53
Beryllium	0.0500			0.0554	mg/L		111	(80%-120%)		10/13/24 22:22
Boron	0.100			0.104	mg/L		104	(80%-120%)		10/14/24 13:53
Cadmium	0.0500			0.0499	mg/L		99.9	(80%-120%)		10/13/24 22:22
Chromium	0.0500			0.0500	mg/L		99.9	(80%-120%)		
Cobalt	0.0500			0.0497	mg/L		99.3	(80%-120%)		
Iron	2.00			1.98	mg/L		99.2	(80%-120%)		
Lead	0.0500			0.0495	mg/L		98.9	(80%-120%)		
Lithium	0.0500			0.0529	mg/L		106	(80%-120%)		
Molybdenum	0.0500			0.0517	mg/L		103	(80%-120%)		

QC Summary

Workorder: **688692**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2682269										
Selenium	0.0500			0.0507	mg/L		101	(80%-120%)	PRB	10/13/24 22:22
Thallium	0.0500			0.0480	mg/L		96	(80%-120%)		
QC1205874964 MB										
Antimony			U	ND	mg/L					10/14/24 13:49
Arsenic			U	ND	mg/L					10/13/24 22:19
Barium			U	ND	mg/L					10/14/24 13:49
Beryllium			U	ND	mg/L					10/13/24 22:19
Boron			U	ND	mg/L					10/14/24 13:49
Cadmium			U	ND	mg/L					10/13/24 22:19
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Molybdenum			U	ND	mg/L					

QC Summary

Workorder: **688692**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2682269											
Selenium				U	ND	mg/L				PRB	10/13/24 22:19
Thallium				U	ND	mg/L					
QC1205874966 688692001 MS											
Antimony	0.0500	U	ND		0.0496	mg/L		97.9	(75%-125%)		10/14/24 14:00
Arsenic	0.0500	U	ND		0.0518	mg/L		99.3	(75%-125%)		
Barium	0.0500	J	0.546		0.578	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0479	mg/L		95.3	(75%-125%)		
Boron	0.100		0.482		0.549	mg/L		N/A	(75%-125%)		
Cadmium	0.0500	U	ND		0.0466	mg/L		92.9	(75%-125%)		
Chromium	0.0500	U	ND		0.0485	mg/L		97	(75%-125%)		
Cobalt	0.0500	U	ND		0.0463	mg/L		92.1	(75%-125%)		
Iron	2.00		32.4		33.4	mg/L		N/A	(75%-125%)		
Lead	0.0500	U	ND		0.0448	mg/L		88.9	(75%-125%)		
Lithium	0.0500	U	ND		0.0585	mg/L		99.4	(75%-125%)		
Molybdenum	0.0500	J	0.00198		0.0560	mg/L		108	(75%-125%)		

QC Summary

Workorder: **688692**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2682269												
Selenium	0.0500	U	ND		0.0516	mg/L		102	(75%-125%)	PRB	10/14/24	14:00
Thallium	0.0500	U	ND		0.0424	mg/L		84	(75%-125%)			
QC1205874967 688692001 MSD												
Antimony	0.0500	U	ND		0.0511	mg/L	3.11	101	(0%-20%)		10/14/24	14:04
Arsenic	0.0500	U	ND		0.0545	mg/L	5.12	105	(0%-20%)			
Barium	0.0500	J	0.546		0.598	mg/L	3.37	N/A	(0%-20%)			
Beryllium	0.0500	U	ND		0.0503	mg/L	5.06	100	(0%-20%)			
Boron	0.100		0.482		0.581	mg/L	5.77	N/A	(0%-20%)			
Cadmium	0.0500	U	ND		0.0476	mg/L	2.14	94.9	(0%-20%)			
Chromium	0.0500	U	ND		0.0503	mg/L	3.6	101	(0%-20%)			
Cobalt	0.0500	U	ND		0.0480	mg/L	3.56	95.5	(0%-20%)			
Iron	2.00		32.4		34.2	mg/L	2.24	N/A	(0%-20%)			
Lead	0.0500	U	ND		0.0469	mg/L	4.43	93	(0%-20%)			
Lithium	0.0500	U	ND		0.0618	mg/L	5.45	106	(0%-20%)			
Molybdenum	0.0500	J	0.00198		0.0573	mg/L	2.31	111	(0%-20%)			

QC Summary

Workorder: **688692**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2682269											
Selenium	0.0500	U	ND		0.0564	mg/L	8.81	112	(0%-20%)	PRB	10/14/24 14:04
Thallium	0.0500	U	ND		0.0447	mg/L	5.27	88.6	(0%-20%)		
QC1205874968 688692001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/14/24 14:11
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium		J	109	J	22.7	ug/L	4.04		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			96.4		22.1	ug/L	14.8		(0%-20%)		
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Cobalt		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Iron			6490		1370	ug/L	5.44		(0%-20%)		
Lead		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum		J	0.395	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **688692**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2682269										
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	10/14/24 14:11
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2682987										
QC1205876359 688684001 DUP										
Mercury	J	0.0000780	J	0.0000780	mg/L	0 ^		(+/-0.000200)	JP2	10/08/24 11:05
QC1205876358 LCS										
Mercury 0.00200				0.00205	mg/L		103	(80%-120%)		10/08/24 11:02
QC1205876357 MB										
Mercury			J	0.0000730	mg/L					10/08/24 11:00
QC1205876360 688684001 MS										
Mercury 0.00200	J	0.0000780		0.00184	mg/L		88	(75%-125%)		10/08/24 11:07
QC1205876361 688684001 SDILT										
Mercury	J	0.0780	J	0.0730	ug/L	368		(0%-10%)		10/08/24 11:12

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.

QC Summary

Workorder: **688692**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A RPD or %Recovery limits do not apply.

ND Analyte concentration is not detected above the detection limit

E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 688692

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2682269

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2682267

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
688692001	MCM-INW-01
688692002	MCM-MCM-06
688692003	MCM-PT-01
688692004	MCM-PT-02
688692005	MCM-PT-03
688692006	MCM-DR-01
688692007	MCM-DR-02
688692008	MCM-DR-03
688692009	MCM-AP1-FD-01
1205874964	Method Blank (MB)**ICP-MS**
1205874965	Laboratory Control Sample (LCS)
1205874968	688692001(MCM-INW-01L) Serial Dilution (SD)
1205874966	688692001(MCM-INW-01S) Matrix Spike (MS)
1205874967	688692001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, sample 688692001 (MCM-INW-01) was diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	688692								
	001	002	003	004	005	006	007	008	009
Antimony	5X	1X	1X	1X	1X	1X	1X	1X	1X
Arsenic	5X	1X	1X	1X	1X	1X	1X	1X	1X
Barium	5X	1X	1X	1X	1X	1X	1X	1X	1X
Beryllium	5X	1X	1X	1X	1X	1X	1X	1X	1X
Boron	5X	10X	10X	10X	10X	10X	10X	10X	10X
Cadmium	5X	1X	1X	1X	1X	1X	1X	1X	1X
Chromium	5X	1X	1X	1X	1X	1X	1X	1X	1X
Cobalt	5X	1X	1X	1X	1X	1X	1X	1X	1X
Iron	5X	1X	1X	1X	1X	1X	1X	10X	1X
Lead	5X	1X	1X	1X	1X	1X	1X	1X	1X
Lithium	5X	1X	1X	1X	1X	1X	1X	1X	1X
Molybdenum	5X	1X	1X	1X	1X	1X	1X	1X	1X
Selenium	5X	1X	1X	1X	1X	1X	1X	1X	1X
Thallium	5X	1X	1X	1X	1X	1X	1X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2682987

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2682986

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
688692001	MCM-INW-01
688692002	MCM-MCM-06
688692003	MCM-PT-01
688692004	MCM-PT-02
688692005	MCM-PT-03
688692006	MCM-DR-01
688692007	MCM-DR-02
688692008	MCM-DR-03
688692009	MCM-AP1-FD-01
1205876357	Method Blank (MB)**CVAA**
1205876358	Laboratory Control Sample (LCS)
1205876361	688684001(MCM-INW-01L) Serial Dilution (SD)
1205876359	688684001(MCM-INW-01D) Sample Duplicate (DUP)
1205876360	688684001(MCM-INW-01S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing

calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

688684
688692

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 6 Week Sampling October 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo, Jay Stewert (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list NI	Dissolved Metals* (6020B) - see list NI	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
MCM-INW-01	10/02/24	1016	G	Y*	WG			3	X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl
MCM-MCM-06	10/01/24	1110	G	Y*	WG			3	X	X	X		
MCM-PT-01	10/01/24	1258	G	Y*	WG			3	X	X	X		
MCM-PT-02	10/02/24	1012	G	Y*	WG			3	X	X	X		
MCM-PT-03	10/01/24	1336	G	Y*	WG			3	X	X	X		
MCM-DR-01	10/01/24	1643	G	Y*	WG			3	X	X	X		
MCM-DR-02	10/01/24	1637	G	Y*	WG			3	X	X	X		
MCM-DR-03	10/01/24	1147	G	Y*	WG			3	X	X	X		
MCM-AP1-FD-01	10/01/24	—	FD	Y*	WG			3	X	X	X		
MCM-AP1-FB-01	10/02/24	0755	FB	N	WQ			2	X		X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	10/2/24	18:00	1 Fed Ex		
2				2	10/3/24	910
3				3		

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240930**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 2 °C

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples*

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 6 Week Sampling October 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo, Jay Stewert (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
MCM-AP1-EB-01	10/02/24	0802	EB	N	WQ			2	X		X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	10/2/24	13:00		10/3/24	09:10
2						
3						

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240930**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Page 3 of 5 880892

Plant McManus Performance Monitoring Sampling Week 6					
Task Code: MCM-CCR-CA-20240930					
Location Code/Label	**Sample Code**	**Matrix Code**	**Total Metals (6020B) [As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl]**	**Dissolved Metals (6020B) [As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl]**	**Cl, F, SO4 (EPA 300)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X		X
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X		X
Extra 1			X	X	X
Extra 2			X	X	X

** Dissloved samples to be field filtered

688684
688692

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 10/3/24
Carrier and Tracking Number	Circle Applicable: (FedEx Express) FedEx Ground UPS Field Services Courier Other 2801 7476 8665

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2 C
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?				Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?				If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date OCT 04 2024 Page 1 of 1

List of current GEL Certifications as of 15 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

October 17, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus 6-Week Sampling September 2024 Week 6
Work Order: 688684

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 03, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
688684001	MCM-INW-01	Ground Water	10/02/24 10:16	10/03/24 09:10
688684002	MCM-MCM-06	Ground Water	10/01/24 11:10	10/03/24 09:10
688684003	MCM-PT-01	Ground Water	10/01/24 12:58	10/03/24 09:10
688684004	MCM-PT-02	Ground Water	10/02/24 10:12	10/03/24 09:10
688684005	MCM-PT-03	Ground Water	10/01/24 13:36	10/03/24 09:10
688684006	MCM-DR-01	Ground Water	10/01/24 16:43	10/03/24 09:10
688684007	MCM-DR-02	Ground Water	10/01/24 16:37	10/03/24 09:10
688684008	MCM-DR-03	Ground Water	10/01/24 11:47	10/03/24 09:10
688684009	MCM-AP1-FD-01	Ground Water	10/01/24 12:00	10/03/24 09:10
688684010	MCM-AP1-FB-01	Water	10/02/24 07:55	10/03/24 09:10
688684011	MCM-AP1-EB-01	Water	10/02/24 08:02	10/03/24 09:10

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	04-OCT-2024
SW846 7470A Prep	07-OCT-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	04-OCT-2024
EPA 300.0	05-OCT-2024
EPA 300.0	16-OCT-2024
SW846 3005A/6020B	15-OCT-2024
SW846 7470A	08-OCT-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,

Kierra McKnight for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 688684 GEL Work Order: 688684

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-INW-01	Project:	GPCC01224
Sample ID:	688684001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	02-OCT-24 10:16		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5470	67.0	200	mg/L		1000	CWW	10/04/24	2119	2682933	1
Sulfate		930	133	400	mg/L		1000					
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	10/16/24	1040	2682933	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000780	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1104	2682987	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	PRB	10/15/24	1102	2682265	4
Barium	J	0.576	0.00335	2.00	mg/L	1.00	5					
Boron		0.461	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/15/24	0100	2682265	5
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		30.2	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00782	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	10/15/24	1622	2682265	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-INW-01	Project:	GPCC01224
Sample ID:	688684001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-MCM-06	Project:	GPCC01224
Sample ID:	688684002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 11:10		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3370	33.5	100	mg/L		500	CWW	10/04/24	2151	2682933	1
Sulfate		376	66.5	200	mg/L		500					
Fluoride	J	0.488	0.330	1.00	mg/L		10	CWW	10/16/24	1111	2682933	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000760	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1115	2682987	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Boron		0.679	0.0260	0.0750	mg/L	1.00	5	PRB	10/15/24	1236	2682265	4
Arsenic		0.0990	0.00200	0.0100	mg/L	1.00	1	PRB	10/15/24	0125	2682265	5
Barium	J	0.105	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0590	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0549	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000969	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00169	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/15/24	1556	2682265	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-MCM-06	Project:	GPCC01224
Sample ID:	688684002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-01	Project:	GPCC01224
Sample ID:	688684003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 12:58		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4100	33.5	100	mg/L		500	CWW	10/04/24	2223	2682933	1
Sulfate		523	66.5	200	mg/L		500					
Fluoride	J	0.390	0.330	1.00	mg/L		10	CWW	10/16/24	1143	2682933	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000770	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1117	2682987	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium	J	0.633	0.000670	2.00	mg/L	1.00	1	PRB	10/15/24	0129	2682265	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.156	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0318	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000677	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/15/24	1558	2682265	5
Arsenic	J	0.0130	0.0100	0.0250	mg/L	1.00	5	PRB	10/15/24	1239	2682265	6
Boron		0.700	0.0260	0.0750	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-01	Project:	GPCC01224
Sample ID:	688684003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-02	Project:	GPCC01224
Sample ID:	688684004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	02-OCT-24 10:12		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.400	0.330	1.00	mg/L		10	CWW	10/16/24	1215	2682933	1
Chloride		3640	33.5	100	mg/L		500	CWW	10/04/24	2254	2682933	2
Sulfate		438	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000790	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1118	2682987	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Boron		0.606	0.0260	0.0750	mg/L	1.00	5	PRB	10/15/24	1243	2682265	4
Arsenic		0.0292	0.00200	0.0100	mg/L	1.00	1	PRB	10/15/24	0133	2682265	5
Barium	J	0.486	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.909	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0239	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000810	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00159	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/15/24	1559	2682265	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-02	Project:	GPCC01224
Sample ID:	688684004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-03	Project:	GPCC01224
Sample ID:	688684005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 13:36		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3460	33.5	100	mg/L		500	CWW	10/04/24	2326	2682933	1
Sulfate		448	66.5	200	mg/L		500					
Fluoride	J	0.418	0.330	1.00	mg/L		10	CWW	10/16/24	1247	2682933	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000840	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1120	2682987	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Boron		0.679	0.0260	0.0750	mg/L	1.00	5	PRB	10/15/24	1247	2682265	4
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/15/24	1601	2682265	5
Arsenic	J	0.00852	0.00200	0.0100	mg/L	1.00	1	PRB	10/15/24	0136	2682265	6
Barium	J	0.247	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.860	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0332	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000462	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00150	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-PT-03	Project:	GPCC01224
Sample ID:	688684005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-01	Project:	GPCC01224
Sample ID:	688684006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 16:43		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3960	33.5	100	mg/L		500	CWW	10/05/24	0102	2682933	1
Sulfate		465	66.5	200	mg/L		500					
Fluoride	J	0.445	0.330	1.00	mg/L		10	CWW	10/16/24	1422	2682933	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000790	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1122	2682987	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium	J	0.335	0.000670	2.00	mg/L	1.00	1	PRB	10/15/24	0140	2682265	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.317	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0431	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000741	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic		0.0263	0.0100	0.0250	mg/L	1.00	5	PRB	10/15/24	1250	2682265	5
Boron		0.713	0.0260	0.0750	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/15/24	1604	2682265	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-01	Project:	GPCC01224
Sample ID:	688684006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-02	Project:	GPCC01224
Sample ID:	688684007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 16:37		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.613	0.330	1.00	mg/L		10	CWW	10/16/24	1454	2682933	1
Chloride		2730	33.5	100	mg/L		500	CWW	10/05/24	0134	2682933	2
Sulfate		324	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000750	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1123	2682987	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/15/24	1606	2682265	4
Arsenic		0.0571	0.00200	0.0100	mg/L	1.00	1	PRB	10/15/24	0144	2682265	5
Barium	J	0.0652	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.213	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0478	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.00104	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00887	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.840	0.0260	0.0750	mg/L	1.00	5	PRB	10/15/24	1254	2682265	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-02	Project:	GPCC01224
Sample ID:	688684007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-03	Project:	GPCC01224
Sample ID:	688684008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 11:47		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.92	0.330	1.00	mg/L		10	CWW	10/16/24	1526	2682933	1
Chloride		2170	33.5	100	mg/L		500	CWW	10/05/24	0205	2682933	2
Sulfate		1170	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000760	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1125	2682987	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Arsenic	J	0.00344	0.00200	0.0100	mg/L	1.00	1	PRB	10/15/24	0147	2682265	4
Barium	J	0.0326	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0456	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000860	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.843	0.0260	0.0750	mg/L	1.00	5	PRB	10/15/24	1258	2682265	5
Iron		85.2	0.165	0.500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/15/24	1608	2682265	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-DR-03	Project:	GPCC01224
Sample ID:	688684008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01224
Sample ID:	688684009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	01-OCT-24 12:00		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3370	33.5	100	mg/L		500	CWW	10/05/24	0413	2682933	1
Sulfate		379	66.5	200	mg/L		500					
Fluoride	J	0.513	0.330	1.00	mg/L		10	CWW	10/16/24	1733	2682933	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1127	2682987	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/15/24	1609	2682265	4
Arsenic		0.0952	0.00200	0.0100	mg/L	1.00	1	PRB	10/15/24	0151	2682265	5
Barium	J	0.104	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0702	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0557	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000860	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00160	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.666	0.0260	0.0750	mg/L	1.00	5	PRB	10/15/24	1301	2682265	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01224
Sample ID:	688684009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01224
Sample ID:	688684010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	02-OCT-24 07:55		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	10/05/24	0516	2682933	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000730	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1132	2682987	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/15/24	1611	2682265	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1	PRB	10/15/24	0155	2682265	4
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron	J	0.0105	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01224
Sample ID:	688684010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01224
Sample ID:	688684011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	02-OCT-24 08:02		
Receive Date:	03-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	10/05/24	0548	2682933	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000710	0.0000670	0.000200	mg/L	1.00	1	JP2	10/08/24	1133	2682987	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1	PRB	10/15/24	0158	2682265	3
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/15/24	1613	2682265	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	10/07/24	1105	2682986
SW846 3005A	ICP-MS 3005A PREP	PB1	10/04/24	1445	2682264

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 17, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 6-Week Sampling September 2024Week 6

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01224
Sample ID:	688684011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: October 17, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **688684**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2682933												
QC1205876266 688684005 DUP												
Chloride			3460		3450	mg/L	0.511			(0%-20%)	CWW	10/04/24 23:58
Fluoride		J	0.418	J	0.436	mg/L	4.22	^		(+/-1.00)		10/16/24 13:19
Sulfate			448		464	mg/L	3.67	^		(+/-200)		10/04/24 23:58
QC1205876263 LCS												
Chloride	5.00				4.74	mg/L			94.7	(90%-110%)		10/04/24 15:29
Fluoride	2.50				2.43	mg/L			97.2	(90%-110%)		
Sulfate	10.0				9.64	mg/L			96.4	(90%-110%)		
QC1205876262 MB												
Chloride				U	ND	mg/L						10/04/24 14:57
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205876267 688684005 PS												
Chloride	5.00		6.93		12.1	mg/L			104	(90%-110%)		10/05/24 00:30
Fluoride	2.50	J	0.0418		2.43	mg/L			95.7	(90%-110%)		10/16/24 13:50
Sulfate	10.0		0.895		10.5	mg/L			96.5	(90%-110%)		10/05/24 00:30

QC Summary

Workorder: **688684**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2682265										
QC1205874960 LCS										
Antimony	0.0500			0.0479	mg/L		95.8	(80%-120%)	PRB	10/15/24 16:21
Arsenic	0.0500			0.0479	mg/L		95.8	(80%-120%)		10/15/24 00:56
Barium	0.0500			0.0499	mg/L		99.8	(80%-120%)		
Beryllium	0.0500			0.0517	mg/L		103	(80%-120%)		
Boron	0.100			0.102	mg/L		102	(80%-120%)		
Cadmium	0.0500			0.0485	mg/L		96.9	(80%-120%)		
Chromium	0.0500			0.0469	mg/L		93.8	(80%-120%)		
Cobalt	0.0500			0.0468	mg/L		93.6	(80%-120%)		
Iron	2.00			1.89	mg/L		94.4	(80%-120%)		
Lead	0.0500			0.0482	mg/L		96.5	(80%-120%)		
Lithium	0.0500			0.0495	mg/L		98.9	(80%-120%)		
Molybdenum	0.0500			0.0497	mg/L		99.4	(80%-120%)		
Selenium	0.0500			0.0508	mg/L		102	(80%-120%)		
Thallium	0.0500			0.0447	mg/L		89.4	(80%-120%)		

QC Summary

Workorder: **688684**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2682265										
QC1205874959 MB										
Antimony			U	ND	mg/L				PRB	10/15/24 16:19
Arsenic			U	ND	mg/L					10/15/24 00:52
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Molybdenum			J	0.000419	mg/L					
Selenium			U	ND	mg/L					
Thallium			U	ND	mg/L					

QC Summary

Workorder: **688684**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2682265											
QC1205874961 688684001 MS											
Antimony	0.0500	U	ND		0.0492	mg/L		97.9	(75%-125%)	PRB	10/15/24 16:24
Arsenic	0.0500	U	ND		0.0527	mg/L		101	(75%-125%)		10/15/24 11:06
Barium	0.0500	J	0.576		0.605	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0422	mg/L		84.3	(75%-125%)		10/15/24 01:03
Boron	0.100		0.461		0.536	mg/L		N/A	(75%-125%)		10/15/24 11:06
Cadmium	0.0500	U	ND		0.0444	mg/L		88.5	(75%-125%)		
Chromium	0.0500	U	ND		0.0447	mg/L		88.8	(75%-125%)		10/15/24 01:03
Cobalt	0.0500	U	ND		0.0406	mg/L		81	(75%-125%)		
Iron	2.00		30.2		31.4	mg/L		N/A	(75%-125%)		
Lead	0.0500	U	ND		0.0447	mg/L		89.1	(75%-125%)		10/15/24 11:06
Lithium	0.0500	J	0.00782		0.0562	mg/L		96.7	(75%-125%)		10/15/24 01:03
Molybdenum	0.0500	U	ND		0.0536	mg/L		106	(75%-125%)		10/15/24 11:06
Selenium	0.0500	U	ND		0.0539	mg/L		101	(75%-125%)		
Thallium	0.0500	U	ND		0.0414	mg/L		82	(75%-125%)		

QC Summary

Workorder: **688684**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2682265											
QC1205874962 688684001 MSD											
Antimony	0.0500	U	ND		0.0503	mg/L	2.22	100	(0%-20%)	PRB	10/15/24 16:26
Arsenic	0.0500	U	ND		0.0529	mg/L	0.445	101	(0%-20%)		10/15/24 11:09
Barium	0.0500	J	0.576		0.631	mg/L	4.19	N/A	(0%-20%)		
Beryllium	0.0500	U	ND		0.0420	mg/L	0.53	83.8	(0%-20%)		10/15/24 01:07
Boron	0.100		0.461		0.555	mg/L	3.47	N/A	(0%-20%)		10/15/24 11:09
Cadmium	0.0500	U	ND		0.0467	mg/L	5.02	93.1	(0%-20%)		
Chromium	0.0500	U	ND		0.0444	mg/L	0.588	88.2	(0%-20%)		10/15/24 01:07
Cobalt	0.0500	U	ND		0.0403	mg/L	0.823	80.3	(0%-20%)		
Iron	2.00		30.2		31.1	mg/L	1.06	N/A	(0%-20%)		
Lead	0.0500	U	ND		0.0462	mg/L	3.26	92	(0%-20%)		10/15/24 11:09
Lithium	0.0500	J	0.00782		0.0558	mg/L	0.725	95.9	(0%-20%)		10/15/24 01:07
Molybdenum	0.0500	U	ND		0.0550	mg/L	2.55	108	(0%-20%)		10/15/24 11:09
Selenium	0.0500	U	ND		0.0565	mg/L	4.78	106	(0%-20%)		
Thallium	0.0500	U	ND		0.0423	mg/L	2.1	83.7	(0%-20%)		

QC Summary

Workorder: **688684**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2682265										
QC1205874963 688684001 SDILT										
Antimony	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	10/15/24 16:30
Arsenic	U	ND	U	ND	ug/L	N/A		(0%-20%)		10/15/24 11:17
Barium	J	115	J	23.9	ug/L	3.79		(0%-20%)		
Beryllium	U	ND	U	ND	ug/L	N/A		(0%-20%)		10/15/24 01:14
Boron		92.1		21.7	ug/L	18		(0%-20%)		10/15/24 11:17
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		10/15/24 01:14
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Iron		30200		6470	ug/L	7.19		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		10/15/24 11:17
Lithium	J	7.82	U	ND	ug/L	N/A		(0%-20%)		10/15/24 01:14
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		10/15/24 11:17
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **688684**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch 2682987											
QC1205876359 688684001 DUP											
Mercury		J 0.0000780	J	0.0000780	mg/L	0 ^		(+/-0.000200)	JP2	10/08/24	11:05
QC1205876358 LCS											
Mercury	0.00200			0.00205	mg/L		103	(80%-120%)		10/08/24	11:02
QC1205876357 MB											
Mercury			J	0.0000730	mg/L					10/08/24	11:00
QC1205876360 688684001 MS											
Mercury	0.00200	J 0.0000780		0.00184	mg/L		88	(75%-125%)		10/08/24	11:07
QC1205876361 688684001 SDILT											
Mercury		J 0.0780	J	0.0730	ug/L	368		(0%-10%)		10/08/24	11:12

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

QC Summary

Workorder: **688684**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range

Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.

B The target analyte was detected in the associated blank.

e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2682265

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2682264

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
688684001	MCM-INW-01
688684002	MCM-MCM-06
688684003	MCM-PT-01
688684004	MCM-PT-02
688684005	MCM-PT-03
688684006	MCM-DR-01
688684007	MCM-DR-02
688684008	MCM-DR-03
688684009	MCM-AP1-FD-01
688684010	MCM-AP1-FB-01
688684011	MCM-AP1-EB-01
1205874959	Method Blank (MB)**ICP-MS**
1205874960	Laboratory Control Sample (LCS)
1205874963	688684001(MCM-INW-01L) Serial Dilution (SD)
1205874961	688684001(MCM-INW-01S) Matrix Spike (MS)
1205874962	688684001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 688684001 (MCM-INW-01), 688684002

(MCM-MCM-06), 688684003 (MCM-PT-01), 688684004 (MCM-PT-02), 688684005 (MCM-PT-03), 688684006 (MCM-DR-01), 688684007 (MCM-DR-02), 688684008 (MCM-DR-03) and 688684009 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 688684001 (MCM-INW-01), 688684003 (MCM-PT-01) and 688684006 (MCM-DR-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	688684								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Antimony	5X	1X	1X	1X	1X	1X	1X	1X	1X
Arsenic	5X	1X	5X	1X	1X	5X	1X	1X	1X
Barium	5X	1X	1X	1X	1X	1X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	1X	1X	1X	1X	1X	1X	1X	1X
Iron	1X	1X	1X	1X	1X	1X	1X	5X	1X
Lead	5X	1X	1X	1X	1X	1X	1X	1X	1X
Molybdenum	5X	1X	1X	1X	1X	1X	1X	1X	1X
Selenium	5X	1X	5X	1X	1X	5X	1X	1X	1X
Thallium	5X	1X	1X	1X	1X	1X	1X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2682987

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2682986

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
688684001	MCM-INW-01
688684002	MCM-MCM-06
688684003	MCM-PT-01
688684004	MCM-PT-02
688684005	MCM-PT-03
688684006	MCM-DR-01
688684007	MCM-DR-02
688684008	MCM-DR-03
688684009	MCM-AP1-FD-01
688684010	MCM-AP1-FB-01
688684011	MCM-AP1-EB-01
1205876357	Method Blank (MB)**CVAA**
1205876358	Laboratory Control Sample (LCS)
1205876361	688684001(MCM-INW-01L) Serial Dilution (SD)
1205876359	688684001(MCM-INW-01D) Sample Duplicate (DUP)
1205876360	688684001(MCM-INW-01S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2682933

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
688684001	MCM-INW-01
688684002	MCM-MCM-06
688684003	MCM-PT-01
688684004	MCM-PT-02
688684005	MCM-PT-03
688684006	MCM-DR-01
688684007	MCM-DR-02
688684008	MCM-DR-03
688684009	MCM-AP1-FD-01
688684010	MCM-AP1-FB-01
688684011	MCM-AP1-EB-01
1205876262	Method Blank (MB)
1205876263	Laboratory Control Sample (LCS)
1205876266	688684005(MCM-PT-03) Sample Duplicate (DUP)
1205876267	688684005(MCM-PT-03) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
Samples 1205876266 (MCM-PT-03DUP), 1205876267 (MCM-PT-03PS), 688684001 (MCM-INW-01), 688684002 (MCM-MCM-06), 688684003 (MCM-PT-01), 688684004 (MCM-PT-02), 688684005 (MCM-PT-03), 688684006 (MCM-DR-01), 688684007 (MCM-DR-02), 688684008 (MCM-DR-03) and 688684009 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Samples 1205876266 (MCM-PT-03DUP), 1205876267 (MCM-PT-03PS), 688684001 (MCM-INW-01), 688684002 (MCM-MCM-06), 688684003 (MCM-PT-01), 688684004 (MCM-PT-02), 688684005 (MCM-PT-03), 688684006 (MCM-DR-01), 688684007 (MCM-DR-02), 688684008 (MCM-DR-03) and 688684009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	688684								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	500X	500X	500X	500X	500X	500X	500X	500X
Fluoride	10X	10X	10X	10X	10X	10X	10X	10X	10X
Sulfate	1000X	500X	500X	500X	500X	500X	500X	500X	500X

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

688684
688692

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 6 Week Sampling October 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Kevin Stephenson, Natalie Piparo, Jay Sewert (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
MCM-INW-01	10/02/24	1016	G	Y*	WG			3	X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl
MCM-MCM-06	10/01/24	1110	G	Y*	WG			3	X	X	X		
MCM-PT-01	10/01/24	1258	G	Y*	WG			3	X	X	X		
MCM-PT-02	10/02/24	1012	G	Y*	WG			3	X	X	X		
MCM-PT-03	10/01/24	1336	G	Y*	WG			3	X	X	X		
MCM-DR-01	10/01/24	1643	G	Y*	WG			3	X	X	X		
MCM-DR-02	10/01/24	1637	G	Y*	WG			3	X	X	X		
MCM-DR-03	10/01/24	1147	G	Y*	WG			3	X	X	X		
MCM-AP1-FD-01	10/01/24	—	FD	Y*	WG			3	X	X	X		
MCM-AP1-FB-01	10/02/24	0755	FB	N	WQ			2	X		X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	10/2/24	18:00	1 Fed Ex		
2				2	10/3/24	910
3				3		

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

TAT Requested: Normal: X Rush: Specify: (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240930**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 2 °C

Sample Collection Time Zone [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples*

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus 6 Week Sampling October 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Kevin Stephenson, Natalie Piparo, Jay Siewert (Resolute Environmental)
Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (?) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list	Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments
									NI	NI			
MCM-AP1-EB-01	10/02/24	0802	EB	N	WQ			2	X		X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl

Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	10/2/24	13:00	1	10/3/24	09:10
2				2		
3				3		

TAT Requested: **Normal:** X **Rush:** _____ **Specify:** _____ **(Subject to Surcharge**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240930**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Page 40 of 43 SDG: 480684

Plant McManus Performance Monitoring Sampling Week 6					
Task Code: MCM-CCR-CA-20240930					
Location Code/Label	**Sample Code**	**Matrix Code**	**Total Metals (6020B) [As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl]**	**Dissolved Metals (6020B) [As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl]**	**Cl, F, SO4 (EPA 300)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X		X
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X		X
Extra 1			X	X	X
Extra 2			X	X	X

** Dissloved samples to be field filtered

688684
688692

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 10/3/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 2801 7476 8665

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2 c
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?				If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date OCT 04 2024 Page 1 of 1

List of current GEL Certifications as of 17 October 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

November 05, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus 8-Week Sampling October 2024
Work Order: 690725

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 17, 2024. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 690725 in the left-hand footer of the data report. Revision 02 corrects the collection date for 007,010, 011 and 018.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
690725001	MCM-INW-01	Ground Water	10/15/24 14:11	10/17/24 09:15
690725002	MCM-MCM-06	Ground Water	10/15/24 11:41	10/17/24 09:15
690725003	MCM-PT-01	Ground Water	10/15/24 09:55	10/17/24 09:15
690725004	MCM-PT-02	Ground Water	10/15/24 16:01	10/17/24 09:15
690725005	MCM-PT-03	Ground Water	10/15/24 16:46	10/17/24 09:15
690725006	MCM-DR-01	Ground Water	10/15/24 14:18	10/17/24 09:15
690725007	MCM-DR-02	Ground Water	10/16/24 10:16	10/17/24 09:15
690725008	MCM-DR-03	Ground Water	10/15/24 10:31	10/17/24 09:15
690725009	MCM-AP1-FD-01	Ground Water	10/15/24 12:00	10/17/24 09:15
690725010	MCM-AP1-FB-01	Water	10/16/24 08:30	10/17/24 09:15
690725011	MCM-AP1-EB-01	Water	10/16/24 08:41	10/17/24 09:15
690725012	MCM-INW-01	Ground Water	10/15/24 14:11	10/17/24 09:15
690725013	MCM-MCM-06	Ground Water	10/15/24 11:41	10/17/24 09:15
690725014	MCM-PT-01	Ground Water	10/15/24 09:55	10/17/24 09:15
690725015	MCM-PT-02	Ground Water	10/15/24 16:01	10/17/24 09:15

690725016	MCM-PT-03	Ground Water	10/15/24 16:46	10/17/24 09:15
690725017	MCM-DR-01	Ground Water	10/15/24 14:18	10/17/24 09:15
690725018	MCM-DR-02	Ground Water	10/16/24 10:16	10/17/24 09:15
690725019	MCM-DR-03	Ground Water	10/15/24 10:31	10/17/24 09:15
690725020	MCM-AP1-FD-01	Ground Water	10/15/24 12:00	10/17/24 09:15

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	19-OCT-2024
SW846 7470A Prep	21-OCT-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	17-OCT-2024
EPA 300.0	18-OCT-2024
EPA 300.0	19-OCT-2024
SM 2320B	17-OCT-2024
SM 2540C	22-OCT-2024
SW846 3005A/6020B	25-OCT-2024
SW846 3005A/6020B	26-OCT-2024
SW846 7470A	22-OCT-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,

Kierra McKnight for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 690725 GEL Work Order: 690725

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01424
Sample ID:	690725001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 14:11		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	10/18/24	1812	2689861	1
Chloride		5020	67.0	200	mg/L		1000	CWW	10/17/24	2355	2689861	2
Sulfate		725	133	400	mg/L		1000					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1204	2690561	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1	PRB	10/25/24	2106	2690003	4
Barium	J	0.531	0.000670	2.00	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		26.0	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.0783	0.00100	0.00500	mg/L	1.00	1					
Selenium	J	0.00195	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0334	2690003	5
Lithium	J	0.00746	0.00300	0.0400	mg/L	1.00	1					
Magnesium		359	1.00	3.00	mg/L	1.00	100	PRB	10/26/24	1320	2690003	6
Sodium		3300	8.00	25.0	mg/L	1.00	100					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	10/26/24	1456	2690003	7
Boron		0.494	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		225	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		88.0	0.400	1.50	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		10600	4.76	20.0	mg/L			ES2	10/22/24	1132	2691652	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		167	0.725	2.00	mg/L			JW2	10/17/24	1435	2689755	9
Bicarbonate alkalinity (CaCO3)		167	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01424
Sample ID:	690725001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01424
Sample ID:	690725002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 11:41		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.476	0.330	1.00	mg/L		10	CWW	10/18/24	1843	2689861	1
Chloride		3600	33.5	100	mg/L		500	CWW	10/18/24	0130	2689861	2
Sulfate		408	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1212	2690561	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/25/24	2131	2690003	4
Arsenic		0.0991	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.115	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0397	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.186	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000714	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0359	2690003	5
Lithium		0.0583	0.00300	0.0400	mg/L	1.00	1					
Sodium		1890	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1334	2690003	6
Boron		0.669	0.0520	0.150	mg/L	1.00	10	PRB	10/26/24	1513	2690003	7
Calcium		169	0.800	2.00	mg/L	1.00	10					
Magnesium		290	0.100	0.300	mg/L	1.00	10					
Potassium		85.3	0.800	3.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6860	4.76	20.0	mg/L			ES2	10/22/24	1132	2691652	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		284	0.725	2.00	mg/L			JW2	10/17/24	1437	2689755	9
Bicarbonate alkalinity (CaCO3)		284	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01424
Sample ID:	690725002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01424
Sample ID:	690725003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 09:55		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4070	33.5	100	mg/L		500	CWW	10/18/24	0202	2689861	1
Sulfate		533	66.5	200	mg/L		500					
Fluoride	J	0.389	0.330	1.00	mg/L		10	CWW	10/18/24	1915	2689861	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1214	2690561	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Sodium		2440	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1337	2690003	4
Boron		0.739	0.0520	0.150	mg/L	1.00	10	PRB	10/26/24	1517	2690003	5
Calcium		184	0.800	2.00	mg/L	1.00	10					
Magnesium		296	0.100	0.300	mg/L	1.00	10					
Potassium		91.9	0.800	3.00	mg/L	1.00	10					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0403	2690003	6
Lithium	J	0.0330	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/25/24	2135	2690003	7
Arsenic		0.0109	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.629	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.106	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.258	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000568	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00157	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7970	4.76	20.0	mg/L			ES2	10/22/24	1132	2691652	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		232	0.725	2.00	mg/L			JW2	10/17/24	1438	2689755	9
Bicarbonate alkalinity (CaCO3)		232	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01424
Sample ID:	690725003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01424
Sample ID:	690725004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 16:01		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4060	33.5	100	mg/L		500	CWW	10/18/24	0234	2689861	1
Sulfate		512	66.5	200	mg/L		500					
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	10/18/24	1947	2689861	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1216	2690561	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0407	2690003	4
Lithium	J	0.0175	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/25/24	2138	2690003	5
Arsenic	J	0.00730	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.597	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		2.67	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.224	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000794	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00174	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.571	0.0520	0.150	mg/L	1.00	10	PRB	10/26/24	1521	2690003	6
Calcium		179	0.800	2.00	mg/L	1.00	10					
Magnesium		273	0.100	0.300	mg/L	1.00	10					
Potassium		74.8	0.800	3.00	mg/L	1.00	10					
Sodium		2200	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1341	2690003	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7590	4.76	20.0	mg/L			ES2	10/22/24	1132	2691652	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		201	0.725	2.00	mg/L			JW2	10/17/24	1440	2689755	9
Bicarbonate alkalinity (CaCO3)		201	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01424
Sample ID:	690725004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01424
Sample ID:	690725005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 16:46		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.423	0.330	1.00	mg/L		10	CWW	10/18/24	2154	2689861	1
Chloride		3650	33.5	100	mg/L		500	CWW	10/18/24	0306	2689861	2
Sulfate		480	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1217	2690561	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Arsenic		0.0108	0.00200	0.0100	mg/L	1.00	1	PRB	10/25/24	2142	2690003	4
Barium	J	0.275	0.000670	2.00	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.492	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.0656	0.00100	0.00500	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/26/24	0410	2690003	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lithium	J	0.0317	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000382	0.000200	0.100	mg/L	1.00	1					
Sodium		2090	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1352	2690003	6
Boron		0.652	0.0260	0.0750	mg/L	1.00	5	PRB	10/26/24	1531	2690003	7
Calcium		146	0.400	1.00	mg/L	1.00	5					
Magnesium		231	0.0500	0.150	mg/L	1.00	5					
Potassium		72.4	0.400	1.50	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6800	4.76	20.0	mg/L			ES2	10/22/24	1132	2691652	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		221	0.725	2.00	mg/L			JW2	10/17/24	1442	2689755	9
Bicarbonate alkalinity (CaCO3)		221	0.725	2.00	mg/L							

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Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01424
Sample ID:	690725005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01424
Sample ID:	690725006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 14:18		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4140	33.5	100	mg/L		500	CWW	10/18/24	0337	2689861	1
Sulfate		513	66.5	200	mg/L		500					
Fluoride	J	0.411	0.330	1.00	mg/L		10	CWW	10/18/24	2226	2689861	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1222	2690561	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Arsenic		0.0200	0.00200	0.0100	mg/L	1.00	1	PRB	10/25/24	2146	2690003	4
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.488	0.0330	0.100	mg/L	1.00	1					
Manganese		0.181	0.00100	0.00500	mg/L	1.00	1					
Selenium	J	0.00171	0.00150	0.0500	mg/L	1.00	1					
Boron		0.714	0.0260	0.0750	mg/L	1.00	5	PRB	10/26/24	1535	2690003	5
Calcium		169	0.400	1.00	mg/L	1.00	5					
Potassium		84.1	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/26/24	0414	2690003	6
Barium	J	0.349	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0435	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000607	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		321	1.00	3.00	mg/L	1.00	100	PRB	10/26/24	1355	2690003	7
Sodium		2250	8.00	25.0	mg/L	1.00	100					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7580	4.76	20.0	mg/L			ES2	10/22/24	1132	2691652	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		240	0.725	2.00	mg/L			JW2	10/17/24	1444	2689755	9
Bicarbonate alkalinity (CaCO3)		240	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01424
Sample ID:	690725006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01424
Sample ID:	690725007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-OCT-24 10:16		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2680	33.5	100	mg/L		500	CWW	10/18/24	0409	2689861	1
Sulfate		330	66.5	200	mg/L		500					
Fluoride	J	0.587	0.330	1.00	mg/L		10	CWW	10/18/24	2258	2689861	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1224	2690561	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/26/24	0418	2690003	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lithium		0.0486	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000956	0.000200	0.100	mg/L	1.00	1					
Arsenic		0.0576	0.00200	0.0100	mg/L	1.00	1	PRB	10/25/24	2149	2690003	5
Barium	J	0.0734	0.000670	2.00	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.477	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.0943	0.00100	0.00500	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		1710	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1359	2690003	6
Boron		0.843	0.0260	0.0750	mg/L	1.00	5	PRB	10/26/24	1538	2690003	7
Calcium		114	0.400	1.00	mg/L	1.00	5					
Magnesium		192	0.0500	0.150	mg/L	1.00	5					
Potassium		69.6	0.400	1.50	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5510	4.76	20.0	mg/L			ES2	10/22/24	1132	2691652	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		303	0.725	2.00	mg/L			JW2	10/17/24	1445	2689755	9
Bicarbonate alkalinity (CaCO3)		303	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01424
Sample ID:	690725007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01424
Sample ID:	690725008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 10:31		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		1890	33.5	100	mg/L		500	CWW	10/18/24	0441	2689861	1
Sulfate		247	66.5	200	mg/L		500					
Fluoride	J	0.799	0.330	1.00	mg/L		10	CWW	10/18/24	2330	2689861	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1226	2690561	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Sodium		1340	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1402	2690003	4
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/25/24	2153	2690003	5
Arsenic	J	0.00254	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0283	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		47.9	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.317	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000716	0.000200	0.100	mg/L	1.00	1					
Potassium		48.6	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0421	2690003	6
Lithium		0.0445	0.00300	0.0400	mg/L	1.00	1					
Boron		0.958	0.0520	0.150	mg/L	1.00	10	PRB	10/26/24	1542	2690003	7
Calcium		73.7	0.800	2.00	mg/L	1.00	10					
Magnesium		111	0.100	0.300	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4180	4.76	20.0	mg/L			ES2	10/22/24	1132	2691652	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		215	0.725	2.00	mg/L			JW2	10/17/24	1447	2689755	9
Bicarbonate alkalinity (CaCO3)		215	0.725	2.00	mg/L							

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Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01424
Sample ID:	690725008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01424
Sample ID:	690725009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 12:00		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.821	0.330	1.00	mg/L		10	CWW	10/19/24	0106	2689861	1
Chloride		2150	33.5	100	mg/L		500	CWW	10/18/24	0617	2689861	2
Sulfate		250	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1227	2690561	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/25/24	2157	2690003	4
Arsenic	J	0.00267	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0293	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.332	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000729	0.000200	0.100	mg/L	1.00	1					
Potassium		49.4	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		1380	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1406	2690003	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0425	2690003	6
Lithium		0.0457	0.00300	0.0400	mg/L	1.00	1					
Boron		0.908	0.0520	0.150	mg/L	1.00	10	PRB	10/26/24	1545	2690003	7
Calcium		75.1	0.800	2.00	mg/L	1.00	10					
Iron		66.5	0.330	1.00	mg/L	1.00	10					
Magnesium		113	0.100	0.300	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4190	4.76	20.0	mg/L			ES2	10/22/24	1132	2691652	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		216	0.725	2.00	mg/L			JW2	10/17/24	1449	2689755	9
Bicarbonate alkalinity (CaCO3)		216	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01424
Sample ID:	690725009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01424
Sample ID:	690725010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	16-OCT-24 08:30		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	10/18/24	0752	2689861	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1229	2690561	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/26/24	1551	2690003	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Magnesium	J	0.0256	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Sodium	J	0.155	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0429	2690003	4
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			ES2	10/22/24	1132	2691652	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	10/17/24	1451	2689755	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01424
Sample ID:	690725010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01424
Sample ID:	690725011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	16-OCT-24 08:41		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	10/18/24	0824	2689861	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1231	2690561	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0432	2690003	3
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/26/24	1555	2690003	4
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			ES2	10/22/24	1132	2691652	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	10/17/24	1452	2689755	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01424
Sample ID:	690725011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01424
Sample ID:	690725012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 14:11		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1232	2690561	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Magnesium		361	1.00	3.00	mg/L	1.00	100	PRB	10/26/24	1409	2690003	2
Sodium		3310	8.00	25.0	mg/L	1.00	100					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0443	2690003	3
Lithium	J	0.00734	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	10/26/24	1558	2690003	4
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Boron		0.499	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		223	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		87.9	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Barium	J	0.512	0.000670	2.00	mg/L	1.00	1	PRB	10/25/24	2215	2690003	5
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		23.4	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.0733	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01424
Sample ID:	690725012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01424
Sample ID:	690725013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 11:41		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1234	2690561	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	10/26/24	1602	2690003	2
Boron		0.672	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		171	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		86.0	0.400	1.50	mg/L	1.00	5					
Magnesium		318	1.00	3.00	mg/L	1.00	100	PRB	10/26/24	1413	2690003	3
Sodium		1980	8.00	25.0	mg/L	1.00	100					
Arsenic		0.104	0.00200	0.0100	mg/L	1.00	1	PRB	10/25/24	2219	2690003	4
Barium	J	0.117	0.000670	2.00	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0445	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.194	0.00100	0.00500	mg/L	1.00	1					
Selenium	J	0.00171	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0447	2690003	5
Lithium		0.0615	0.00300	0.0400	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01424
Sample ID:	690725013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01424
Sample ID:	690725014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 09:55		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1236	2690561	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	10/26/24	1613	2690003	2
Boron		0.701	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		180	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		89.3	0.400	1.50	mg/L	1.00	5					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0451	2690003	3
Lithium	J	0.0338	0.00300	0.0400	mg/L	1.00	1					
Arsenic	J	0.00983	0.00200	0.0100	mg/L	1.00	1	PRB	10/25/24	2222	2690003	4
Barium	J	0.640	0.000670	2.00	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0808	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.263	0.00100	0.00500	mg/L	1.00	1					
Selenium	J	0.00165	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		316	1.00	3.00	mg/L	1.00	100	PRB	10/26/24	1424	2690003	5
Sodium		2420	8.00	25.0	mg/L	1.00	100					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01424
Sample ID:	690725014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01424
Sample ID:	690725015	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 16:01		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1237	2690561	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Magnesium		283	1.00	3.00	mg/L	1.00	100	PRB	10/26/24	1427	2690003	2
Sodium		2240	8.00	25.0	mg/L	1.00	100					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0454	2690003	3
Lithium	J	0.0194	0.00300	0.0400	mg/L	1.00	1					
Arsenic	J	0.00677	0.00200	0.0100	mg/L	1.00	1	PRB	10/25/24	2226	2690003	4
Barium	J	0.609	0.000670	2.00	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		2.74	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.233	0.00100	0.00500	mg/L	1.00	1					
Selenium	J	0.00198	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	10/26/24	1616	2690003	5
Boron		0.542	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		175	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		72.4	0.400	1.50	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01424
Sample ID:	690725015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01424
Sample ID:	690725016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 16:46		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1329	2690561	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	10/26/24	1620	2690003	2
Boron		0.695	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		155	0.400	1.00	mg/L	1.00	5					
Magnesium		248	0.0500	0.150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		76.3	0.400	1.50	mg/L	1.00	5					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0458	2690003	3
Lithium	J	0.0330	0.00300	0.0400	mg/L	1.00	1					
Sodium		2220	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1431	2690003	4
Arsenic		0.0107	0.00200	0.0100	mg/L	1.00	1	PRB	10/25/24	2230	2690003	5
Barium	J	0.308	0.000670	2.00	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.354	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.0734	0.00100	0.00500	mg/L	1.00	1					
Selenium	J	0.00186	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01424
Sample ID:	690725016	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01424
Sample ID:	690725017	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 14:18		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1244	2690561	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0502	2690003	2
Lithium		0.0445	0.00300	0.0400	mg/L	1.00	1					
Arsenic		0.0174	0.00200	0.0100	mg/L	1.00	1	PRB	10/25/24	2233	2690003	3
Barium	J	0.371	0.000670	2.00	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.328	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.186	0.00100	0.00500	mg/L	1.00	1					
Selenium	J	0.00190	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	10/26/24	1623	2690003	4
Boron		0.726	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		170	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		84.8	0.400	1.50	mg/L	1.00	5					
Magnesium		323	1.00	3.00	mg/L	1.00	100	PRB	10/26/24	1434	2690003	5
Sodium		2270	8.00	25.0	mg/L	1.00	100					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01424
Sample ID:	690725017	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01424
Sample ID:	690725018	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-OCT-24 10:16		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1245	2690561	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/25/24	2237	2690003	2
Arsenic		0.0604	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0720	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.182	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.0955	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000624	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.866	0.0520	0.150	mg/L	1.00	10	PRB	10/26/24	1627	2690003	3
Calcium		114	0.800	2.00	mg/L	1.00	10					
Magnesium		193	0.100	0.300	mg/L	1.00	10					
Potassium		70.0	0.800	3.00	mg/L	1.00	10					
Sodium		1670	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1438	2690003	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0505	2690003	5
Lithium		0.0490	0.00300	0.0400	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01424
Sample ID:	690725018	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01424
Sample ID:	690725019	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 10:31		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1247	2690561	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/25/24	2240	2690003	2
Arsenic	J	0.00221	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0283	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		47.1	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.321	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000570	0.000200	0.100	mg/L	1.00	1					
Potassium		46.8	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0509	2690003	3
Lithium		0.0431	0.00300	0.0400	mg/L	1.00	1					
Sodium		1230	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1441	2690003	4
Boron		0.884	0.0520	0.150	mg/L	1.00	10	PRB	10/26/24	1630	2690003	5
Calcium		68.9	0.800	2.00	mg/L	1.00	10					
Magnesium		104	0.100	0.300	mg/L	1.00	10					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01424
Sample ID:	690725019	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01424
Sample ID:	690725020	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-OCT-24 12:00		
Receive Date:	17-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	10/22/24	1249	2690561	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	10/26/24	0513	2690003	2
Lithium		0.0447	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	10/25/24	2244	2690003	3
Arsenic	J	0.00201	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0284	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		47.6	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Manganese		0.329	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000564	0.000200	0.100	mg/L	1.00	1					
Potassium		47.5	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		1260	8.00	25.0	mg/L	1.00	100	PRB	10/26/24	1445	2690003	4
Boron		0.886	0.0520	0.150	mg/L	1.00	10	PRB	10/26/24	1634	2690003	5
Calcium		69.0	0.800	2.00	mg/L	1.00	10					
Magnesium		103	0.100	0.300	mg/L	1.00	10					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	10/21/24	1224	2690560
SW846 3005A	ICP-MS 3005A PREP	BB2	10/19/24	1015	2690002

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 8-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01424
Sample ID:	690725020	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: November 5, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **690725**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2689861												
QC1205890344 690725008 DUP												
Chloride			1890		1880	mg/L	0.408			(0%-20%)	CWW	10/18/24 05:13
Fluoride		J	0.799	J	0.811	mg/L	1.49	^		(+/-1.00)		10/19/24 00:02
Sulfate			247		253	mg/L	2.24	^		(+/-200)		10/18/24 05:13
QC1205890341 LCS												
Chloride	5.00				4.76	mg/L			95.1	(90%-110%)		10/17/24 19:40
Fluoride	2.50				2.39	mg/L			95.5	(90%-110%)		
Sulfate	10.0				9.67	mg/L			96.7	(90%-110%)		
QC1205890340 MB												
Chloride				U	ND	mg/L						10/17/24 19:08
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205890345 690725008 PS												
Chloride	5.00		3.78		8.82	mg/L			101	(90%-110%)		10/18/24 05:45
Fluoride	2.50	J	0.0799		2.42	mg/L			93.7	(90%-110%)		10/19/24 00:34
Sulfate	10.0		0.495		10.0	mg/L			95.2	(90%-110%)		10/18/24 05:45

QC Summary

Workorder: **690725**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2690003										
QC1205890608 LCS										
Antimony	0.0500			0.0477	mg/L		95.5	(80%-120%)	PRB	10/25/24 21:02
Arsenic	0.0500			0.0482	mg/L		96.5	(80%-120%)		
Barium	0.0500			0.0480	mg/L		96	(80%-120%)		
Beryllium	0.0500			0.0525	mg/L		105	(80%-120%)		10/26/24 03:30
Boron	0.100			0.105	mg/L		105	(80%-120%)		10/25/24 21:02
Cadmium	0.0500			0.0487	mg/L		97.4	(80%-120%)		
Calcium	2.00			2.05	mg/L		103	(80%-120%)		
Chromium	0.0500			0.0475	mg/L		95	(80%-120%)		
Cobalt	0.0500			0.0477	mg/L		95.4	(80%-120%)		
Iron	2.00			1.90	mg/L		95.2	(80%-120%)		
Lead	0.0500			0.0483	mg/L		96.6	(80%-120%)		
Lithium	0.0500			0.0498	mg/L		99.6	(80%-120%)		10/26/24 03:30
Magnesium	2.00			1.99	mg/L		99.6	(80%-120%)		10/25/24 21:02
Manganese	0.0500			0.0468	mg/L		93.5	(80%-120%)		

QC Summary

Workorder: **690725**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2690003										
Molybdenum	0.0500			0.0495	mg/L		99	(80%-120%)	PRB	10/25/24 21:02
Potassium	2.00			1.94	mg/L		97.2	(80%-120%)		
Selenium	0.0500			0.0476	mg/L		95.2	(80%-120%)		
Sodium	2.00			1.98	mg/L		98.9	(80%-120%)		
Thallium	0.0500			0.0464	mg/L		92.8	(80%-120%)		
QC1205890607 MB										
Antimony			U	ND	mg/L					10/25/24 20:58
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					10/26/24 03:27
Boron			U	ND	mg/L					10/25/24 20:58
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **690725**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2690003											
Iron				U	ND	mg/L				PRB	10/25/24 20:58
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					10/26/24 03:27
Magnesium				J	0.0102	mg/L					10/25/24 20:58
Manganese				U	ND	mg/L					
Molybdenum				U	ND	mg/L					
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205890609 690725001 MS											
Antimony	0.0500	U	ND		0.0497	mg/L		98.9	(75%-125%)		10/26/24 14:59
Arsenic	0.0500	U	ND		0.0466	mg/L		89.5	(75%-125%)		10/25/24 21:09
Barium	0.0500	J	0.531		0.588	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND		0.0470	mg/L		94.1	(75%-125%)		10/26/24 03:38

QC Summary

Workorder: **690725**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2690003											
Boron	0.100		0.494		0.579	mg/L		N/A	(75%-125%)	PRB	10/26/24 14:59
Cadmium	0.0500	U	ND		0.0447	mg/L		89.3	(75%-125%)		
Calcium	2.00		225		222	mg/L		N/A	(75%-125%)		
Chromium	0.0500	U	ND		0.0461	mg/L		90.9	(75%-125%)		10/25/24 21:09
Cobalt	0.0500	U	ND		0.0426	mg/L		85	(75%-125%)		
Iron	2.00		26.0		27.7	mg/L		N/A	(75%-125%)		
Lead	0.0500	U	ND		0.0399	mg/L		79.8	(75%-125%)		
Lithium	0.0500	J	0.00746		0.0571	mg/L		99.2	(75%-125%)		10/26/24 03:38
Magnesium	2.00		359		344	mg/L		N/A	(75%-125%)		10/26/24 13:23
Manganese	0.0500		0.0783		0.122	mg/L		87.2	(75%-125%)		10/25/24 21:09
Molybdenum	0.0500	U	ND		0.0520	mg/L		103	(75%-125%)		10/26/24 14:59
Potassium	2.00		88.0		89.0	mg/L		N/A	(75%-125%)		
Selenium	0.0500	J	0.00195		0.0458	mg/L		87.7	(75%-125%)		10/25/24 21:09
Sodium	2.00		3300		3150	mg/L		N/A	(75%-125%)		10/26/24 13:23

QC Summary

Workorder: **690725**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2690003											
Thallium	0.0500	U	ND		0.0392	mg/L		78.3	(75%-125%)	PRB	10/25/24 21:09
QC1205890610 690725001 MSD											
Antimony	0.0500	U	ND		0.0513	mg/L	3.2	102	(0%-20%)		10/26/24 15:03
Arsenic	0.0500	U	ND		0.0456	mg/L	2.24	87.5	(0%-20%)		10/25/24 21:13
Barium	0.0500	J	0.531		0.559	mg/L	5.15	N/A	(0%-20%)		
Beryllium	0.0500	U	ND		0.0466	mg/L	1	93.1	(0%-20%)		10/26/24 03:41
Boron	0.100		0.494		0.592	mg/L	2.11	N/A	(0%-20%)		10/26/24 15:03
Cadmium	0.0500	U	ND		0.0457	mg/L	2.2	91.3	(0%-20%)		
Calcium	2.00		225		227	mg/L	2.58	N/A	(0%-20%)		
Chromium	0.0500	U	ND		0.0435	mg/L	5.79	85.8	(0%-20%)		10/25/24 21:13
Cobalt	0.0500	U	ND		0.0408	mg/L	4.26	81.4	(0%-20%)		
Iron	2.00		26.0		25.9	mg/L	6.69	N/A	(0%-20%)		
Lead	0.0500	U	ND		0.0390	mg/L	2.27	78	(0%-20%)		
Lithium	0.0500	J	0.00746		0.0561	mg/L	1.76	97.2	(0%-20%)		10/26/24 03:41
Magnesium	2.00		359		342	mg/L	0.502	N/A	(0%-20%)		10/26/24 13:27

QC Summary

Workorder: **690725**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2690003											
Manganese	0.0500		0.0783		0.117	mg/L	4.08	77.5	(0%-20%)	PRB	10/25/24 21:13
Molybdenum	0.0500	U	ND		0.0530	mg/L	1.93	105	(0%-20%)		10/26/24 15:03
Potassium	2.00		88.0		90.4	mg/L	1.57	N/A	(0%-20%)		
Selenium	0.0500	J	0.00195		0.0470	mg/L	2.72	90.2	(0%-20%)		10/25/24 21:13
Sodium	2.00		3300		3160	mg/L	0.25	N/A	(0%-20%)		10/26/24 13:27
Thallium	0.0500	U	ND		0.0386	mg/L	1.59	77.1	(0%-20%)		10/25/24 21:13
QC1205890611 690725001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/26/24 15:10
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/25/24 21:20
Barium		J	531	J	110	ug/L	3.08		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/26/24 03:49
Boron			98.8		22.0	ug/L	11.4		(0%-20%)		10/26/24 15:10
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Calcium			44900		9130	ug/L	1.59		(0%-20%)		
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		10/25/24 21:20

QC Summary

Workorder: **690725**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2690003										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	10/25/24 21:20
Iron		26000		5230	ug/L	.59		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	J	7.46	U	ND	ug/L	N/A		(0%-20%)		10/26/24 03:49
Magnesium		3590		734	ug/L	2.1		(0%-20%)		10/26/24 13:30
Manganese		78.3		15.7	ug/L	.00255		(0%-20%)		10/25/24 21:20
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		10/26/24 15:10
Potassium		17600		3650	ug/L	3.76		(0%-20%)		
Selenium	J	1.95	U	ND	ug/L	N/A		(0%-20%)		10/25/24 21:20
Sodium		33000		6650	ug/L	.918		(0%-20%)		10/26/24 13:30
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		10/25/24 21:20
Metals Analysis-Mercury										
Batch 2690561										
QC1205891623 690725001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	10/22/24 12:06
QC1205891622 LCS										
Mercury	0.00200			0.00188	mg/L		94.1	(80%-120%)		10/22/24 12:03

QC Summary

Workorder: **690725**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2690561										
QC1205891621 MB										
Mercury			U	ND	mg/L				JP2	10/22/24 11:58
QC1205891624 690725001 MS										
Mercury	0.00200	U ND		0.00169	mg/L		84.7	(75%-125%)		10/22/24 12:08
QC1205891625 690725001 SDILT										
Mercury		U ND	U	ND	ug/L	N/A		(0%-10%)		10/22/24 12:09
Solids Analysis										
Batch 2691652										
QC1205893611 690828009 DUP										
Total Dissolved Solids		226		228	mg/L	0.881		(0%-5%)	ES2	10/22/24 11:32
QC1205893610 LCS										
Total Dissolved Solids	300			294	mg/L		98	(95%-105%)		10/22/24 11:32
QC1205893609 MB										
Total Dissolved Solids			J	3.00	mg/L					10/22/24 11:32
Titration and Ion Analysis										
Batch 2689755										
QC1205890100 690812006 DUP										
Carbonate alkalinity (CaCO3)		U ND	U	ND	mg/L	N/A			JW2	10/17/24 14:54
QC1205890099 LCS										
Alkalinity, Total as CaCO3	50.0			52.9	mg/L		106			10/17/24 14:32
QC1205890104 LCS										
Alkalinity, Total as CaCO3	15.0			15.2	mg/L		101			10/17/24 14:33
QC1205890101 690812006 MS										
Alkalinity, Total as CaCO3	50.0	J 0.900		55.4	mg/L		109			10/17/24 14:55

QC Summary

Workorder: **690725**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 690725

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2690003

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2690002

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
690725001	MCM-INW-01
690725002	MCM-MCM-06
690725003	MCM-PT-01
690725004	MCM-PT-02
690725005	MCM-PT-03
690725006	MCM-DR-01
690725007	MCM-DR-02
690725008	MCM-DR-03
690725009	MCM-AP1-FD-01
690725010	MCM-AP1-FB-01
690725011	MCM-AP1-EB-01
690725012	MCM-INW-01
690725013	MCM-MCM-06
690725014	MCM-PT-01
690725015	MCM-PT-02
690725016	MCM-PT-03
690725017	MCM-DR-01
690725018	MCM-DR-02
690725019	MCM-DR-03
690725020	MCM-AP1-FD-01
1205890607	Method Blank (MB)**ICP-MS**
1205890608	Laboratory Control Sample (LCS)
1205890611	690725001(MCM-INW-01L) Serial Dilution (SD)
1205890609	690725001(MCM-INW-01S) Matrix Spike (MS)
1205890610	690725001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 690725001 (MCM-INW-01), 690725002 (MCM-MCM-06), 690725003 (MCM-PT-01), 690725004 (MCM-PT-02), 690725005 (MCM-PT-03), 690725006 (MCM-DR-01), 690725007 (MCM-DR-02), 690725008 (MCM-DR-03), 690725009 (MCM-AP1-FD-01), 690725012 (MCM-INW-01), 690725013 (MCM-MCM-06), 690725014 (MCM-PT-01), 690725015 (MCM-PT-02), 690725016 (MCM-PT-03), 690725017 (MCM-DR-01), 690725018 (MCM-DR-02), 690725019 (MCM-DR-03) and 690725020 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 690725001 (MCM-INW-01), 690725005 (MCM-PT-03), 690725006 (MCM-DR-01), 690725007 (MCM-DR-02), 690725012 (MCM-INW-01), 690725013 (MCM-MCM-06), 690725014 (MCM-PT-01), 690725015 (MCM-PT-02), 690725016 (MCM-PT-03) and 690725017 (MCM-DR-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	690725									
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**012**
Antimony	5X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Arsenic	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Boron	5X	10X	10X	10X	5X	5X	5X	10X	10X	5X
Cadmium	5X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Calcium	5X	10X	10X	10X	5X	5X	5X	10X	10X	5X
Iron	1X	1X	1X	1X	1X	1X	1X	1X	10X	1X
Magnesium	100X	10X	10X	10X	5X	100X	5X	10X	10X	100X
Molybdenum	5X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Potassium	5X	10X	10X	10X	5X	5X	5X	1X	1X	5X
Selenium	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Sodium	100X	100X	100X	100X	100X	100X	100X	100X	100X	100X

Analyte	690725							
	013	**014**	**015**	**016**	**017**	**018**	**019**	**020**
Antimony	5X	5X	5X	5X	5X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	10X	10X	10X
Cadmium	5X	5X	5X	5X	5X	1X	1X	1X
Calcium	5X	5X	5X	5X	5X	10X	10X	10X
Magnesium	100X	100X	100X	5X	100X	10X	10X	10X
Molybdenum	5X	5X	5X	5X	5X	1X	1X	1X
Potassium	5X	5X	5X	5X	5X	10X	1X	1X
Sodium	100X	100X	100X	100X	100X	100X	100X	100X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2690561

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2690560

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
690725001	MCM-INW-01
690725002	MCM-MCM-06
690725003	MCM-PT-01
690725004	MCM-PT-02
690725005	MCM-PT-03
690725006	MCM-DR-01
690725007	MCM-DR-02
690725008	MCM-DR-03
690725009	MCM-AP1-FD-01
690725010	MCM-AP1-FB-01
690725011	MCM-AP1-EB-01
690725012	MCM-INW-01
690725013	MCM-MCM-06
690725014	MCM-PT-01
690725015	MCM-PT-02
690725016	MCM-PT-03
690725017	MCM-DR-01
690725018	MCM-DR-02
690725019	MCM-DR-03
690725020	MCM-AP1-FD-01
1205891621	Method Blank (MB)**CVAA**
1205891622	Laboratory Control Sample (LCS)
1205891625	690725001(MCM-INW-01L) Serial Dilution (SD)
1205891623	690725001(MCM-INW-01D) Sample Duplicate (DUP)
1205891624	690725001(MCM-INW-01S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2689861

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
690725001	MCM-INW-01

690725002	MCM-MCM-06
690725003	MCM-PT-01
690725004	MCM-PT-02
690725005	MCM-PT-03
690725006	MCM-DR-01
690725007	MCM-DR-02
690725008	MCM-DR-03
690725009	MCM-AP1-FD-01
690725010	MCM-AP1-FB-01
690725011	MCM-AP1-EB-01
1205890340	Method Blank (MB)
1205890341	Laboratory Control Sample (LCS)
1205890344	690725008(MCM-DR-03) Sample Duplicate (DUP)
1205890345	690725008(MCM-DR-03) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
Samples 1205890344 (MCM-DR-03DUP), 1205890345 (MCM-DR-03PS), 690725001 (MCM-INW-01), 690725002 (MCM-MCM-06), 690725003 (MCM-PT-01), 690725004 (MCM-PT-02), 690725005 (MCM-PT-03), 690725006 (MCM-DR-01), 690725007 (MCM-DR-02), 690725008 (MCM-DR-03) and 690725009 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Samples 1205890344 (MCM-DR-03DUP), 1205890345 (MCM-DR-03PS), 690725001 (MCM-INW-01), 690725002 (MCM-MCM-06), 690725003 (MCM-PT-01), 690725004 (MCM-PT-02), 690725005 (MCM-PT-03), 690725006 (MCM-DR-01), 690725007 (MCM-DR-02), 690725008 (MCM-DR-03) and 690725009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	690725								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	500X	500X	500X	500X	500X	500X	500X	500X
Fluoride	10X	10X	10X	10X	10X	10X	10X	10X	10X
Sulfate	1000X	500X	500X	500X	500X	500X	500X	500X	500X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2691652

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
690725001	MCM-INW-01
690725002	MCM-MCM-06
690725003	MCM-PT-01

690725004	MCM-PT-02
690725005	MCM-PT-03
690725006	MCM-DR-01
690725007	MCM-DR-02
690725008	MCM-DR-03
690725009	MCM-AP1-FD-01
690725010	MCM-AP1-FB-01
690725011	MCM-AP1-EB-01
1205893609	Method Blank (MB)
1205893610	Laboratory Control Sample (LCS)
1205893611	690828009(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank (MB) Statement
The MB (See Below) analyzed with this SDG met the acceptance criteria. In instances where there were positive hits in the method blank, the results were evaluated and appropriately flagged on the data.

Sample	Analyte	Value
1205893609 (MB)	Total Dissolved Solids	3 between (2.38 - 10)

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 690725001 (MCM-INW-01), 690725002 (MCM-MCM-06), 690725003 (MCM-PT-01), 690725004 (MCM-PT-02), 690725005 (MCM-PT-03), 690725006 (MCM-DR-01), 690725007 (MCM-DR-02), 690725008 (MCM-DR-03) and 690725009 (MCM-AP1-FD-01).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2689755

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
690725001	MCM-INW-01
690725002	MCM-MCM-06
690725003	MCM-PT-01
690725004	MCM-PT-02
690725005	MCM-PT-03
690725006	MCM-DR-01
690725007	MCM-DR-02
690725008	MCM-DR-03
690725009	MCM-AP1-FD-01

690725010	MCM-AP1-FB-01
690725011	MCM-AP1-EB-01
1205890099	Laboratory Control Sample (LCS)
1205890100	690812006(NonSDG) Sample Duplicate (DUP)
1205890101	690812006(NonSDG) Matrix Spike (MS)
1205890104	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

690725

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 8-Week Sampling October 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo, Kevin Stephenson (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)	Comments
MCM-INW-01	10/15/24	1411	G	Y*	WG			5	X	X	X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl
MCM-MCM-06	10/15/24	1141	G	Y*	WG			5	X	X	X	X	X		
MCM-PT-01	10/15/24	0955	G	Y*	WG			5	X	X	X	X	X		
MCM-PT-02	10/15/24	1001	G	Y*	WG			5	X	X	X	X	X		
MCM-PT-03	10/15/24	1646	G	Y*	WG			5	X	X	X	X	X		
MCM-DR-01	10/15/24	1413	G	Y*	WG			5	X	X	X	X	X		
MCM-DR-02	10/16/24	1016	G	Y*	WG			5	X	X	X	X	X		
MCM-DR-03	10/15/24	1031	G	Y*	WG			5	X	X	X	X	X		
MCM-AP1-FD-01	10/15/24	—	FD	Y*	WG			5	X	X	X	X	X		
MCM-AP1-FB-01	10/16/24	0830	FB	N	WQ			4	X		X	X	X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	10/16/24	1200	1 FedEx		
2				2	10/17/24	915
3				3		

TAT Requested: Normal: X Rush: Specify: (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20241014**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 4 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

****Dissolved metals are the only Field Filterd Samples****

Page 66 of 85 DocID 690725 Rev1

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 8-Week Sampling October 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Natalie Piparo, Kevin Stephenson (Resolute Environmental)

Send Results To: knjurink@southernco.com; kevin.stephenson@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID *For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)	Comments
MCM-AP1-EB-01	10/16/24	0841	EB	N	WQ			4	X		X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl

Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	10/16/24	1200	1 Fed Ex	
2			2	10/17/24	945
3			3		

TAT Requested: Normal: X Rush: Specify: (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20241014**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** 4 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Pg 2 of 2 - 241055 SDG: 660725 Rev1

Plant McManus Performance Monitoring Sampling Week 8							
Task Code: MCM-CCR-CA-20241014							
Location Code/Label	**Sample Code**	**Matrix Code**	**Total Metals (6020B) [As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl]**	**Dissolved Metals (6020B) [As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl]**	**Cl, F, SO4 (EPA 300)**	**TDS (SM2540)**	**Total Alk/Carb/Bicarb (SM2320B)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X	X	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X	X	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X	X	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X	X	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X	X	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X	X	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X	X	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X	X	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X	X	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X		X	X	X
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X		X	X	X
Extra 1			X	X	X	X	X
Extra 2			X	X	X	X	X

** Dissloved samples to be field filtered

GEL Laboratories LLC

690725

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 10/17/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 2807 1147 9200

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 4°C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date OCT 18 2024 Page 1 of 1

List of current GEL Certifications as of 05 November 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

November 13, 2024

Re:
Work Order:

Dear :

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on October 31, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
693032001	MCM-INW-01	Ground Water	10/29/24 11:52	10/31/24 09:40
693032002	MCM-MCM-06	Ground Water	10/29/24 09:46	10/31/24 09:40
693032003	MCM-PT-01	Ground Water	10/29/24 15:36	10/31/24 09:40
693032004	MCM-PT-02	Ground Water	10/29/24 14:08	10/31/24 09:40
693032005	MCM-PT-03	Ground Water	10/29/24 14:33	10/31/24 09:40
693032006	MCM-DR-01	Ground Water	10/29/24 11:21	10/31/24 09:40
693032007	MCM-DR-02	Ground Water	10/29/24 16:12	10/31/24 09:40
693032008	MCM-DR-03	Ground Water	10/29/24 09:35	10/31/24 09:40
693032009	MCM-AP1-FD-01	Ground Water	10/29/24 12:00	10/31/24 09:40
693032010	MCM-AP1-FB-01	Water	10/30/24 08:17	10/31/24 09:40
693032011	MCM-AP1-EB-01	Water	10/30/24 08:21	10/31/24 09:40
693032012	MCM-INW-01	Ground Water	10/29/24 11:52	10/31/24 09:40
693032013	MCM-MCM-06	Ground Water	10/29/24 09:46	10/31/24 09:40
693032014	MCM-PT-01	Ground Water	10/29/24 15:36	10/31/24 09:40
693032015	MCM-PT-02	Ground Water	10/29/24 14:08	10/31/24 09:40
693032016	MCM-PT-03	Ground Water	10/29/24 14:33	10/31/24 09:40

693032017	MCM-DR-01	Ground Water	10/29/24 11:21	10/31/24 09:40
693032018	MCM-DR-02	Ground Water	10/29/24 16:12	10/31/24 09:40
693032019	MCM-DR-03	Ground Water	10/29/24 09:35	10/31/24 09:40
693032020	MCM-AP1-FD-01	Ground Water	10/29/24 12:00	10/31/24 09:40

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	01-NOV-2024
SW846 7470A Prep	05-NOV-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	01-NOV-2024
EPA 300.0	31-OCT-2024
SW846 3005A/6020B	11-NOV-2024
SW846 3005A/6020B	13-NOV-2024
SW846 7470A	06-NOV-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,

Kierra McKnight for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 693032 GEL Work Order: 693032

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N Metals--The Matrix spike sample recovery is not within specified control limits

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01524
Sample ID:	693032001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 11:52		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	TXT1	10/31/24	1629	2698242	1
Chloride		5310	67.0	200	mg/L		1000	TXT1	10/31/24	1803	2698242	2
Sulfate		758	133	400	mg/L		1000					
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0930	2699944	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium	J	0.504	0.000670	2.00	mg/L	1.00	1	PRB	11/11/24	0130	2698397	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		19.1	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.00707	0.00300	0.0400	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/11/24	1208	2698397	5
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Boron		0.536	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	J	0.00119	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01524
Sample ID:	693032001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01524
Sample ID:	693032002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 09:46		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3690	33.5	100	mg/L		500	TXT1	10/31/24	2008	2698242	1
Sulfate		385	66.5	200	mg/L		500					
Fluoride	J	0.415	0.330	1.00	mg/L		10	TXT1	10/31/24	1937	2698242	2
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0938	2699944	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Arsenic		0.117	0.0100	0.0250	mg/L	1.00	5	PRB	11/11/24	1234	2698397	4
Boron		0.729	0.0260	0.0750	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	11/11/24	0156	2698397	5
Barium	J	0.111	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0498	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0659	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000899	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01524
Sample ID:	693032002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01524
Sample ID:	693032003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 15:36		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	TXT1	10/31/24	2142	2698242	1
Chloride		4160	33.5	100	mg/L		500	TXT1	10/31/24	2214	2698242	2
Sulfate		517	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0940	2699944	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Arsenic	J	0.0166	0.0100	0.0250	mg/L	1.00	5	PRB	11/11/24	1237	2698397	4
Boron		0.736	0.0260	0.0750	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	11/11/24	0200	2698397	5
Barium	J	0.573	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0907	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0374	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000620	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01524
Sample ID:	693032003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01524
Sample ID:	693032004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 14:08		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.55	0.330	1.00	mg/L		10	TXT1	10/31/24	2245	2698242	1
Chloride		3780	33.5	100	mg/L		500	TXT1	10/31/24	2317	2698242	2
Sulfate		453	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0941	2699944	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	11/11/24	0203	2698397	4
Barium	J	0.482	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		2.17	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0265	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000863	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic		0.0281	0.0100	0.0250	mg/L	1.00	5	PRB	11/11/24	1241	2698397	5
Boron		0.636	0.0260	0.0750	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01524
Sample ID:	693032004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01524
Sample ID:	693032005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 14:33		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.984	0.330	1.00	mg/L		10	TXT1	10/31/24	2348	2698242	1
Chloride		3450	33.5	100	mg/L		500	TXT1	11/01/24	0019	2698242	2
Sulfate		437	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0946	2699944	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/11/24	1245	2698397	4
Arsenic	J	0.0163	0.0100	0.0250	mg/L	1.00	5					
Boron		0.719	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Barium	J	0.238	0.000670	2.00	mg/L	1.00	1	PRB	11/11/24	0207	2698397	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.729	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0396	0.00300	0.0400	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01524
Sample ID:	693032005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01524
Sample ID:	693032006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 11:21		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3910	33.5	100	mg/L		500	TXT1	11/01/24	0122	2698242	1
Sulfate		468	66.5	200	mg/L		500					
Fluoride		1.95	0.330	1.00	mg/L		10	TXT1	11/01/24	0051	2698242	2
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0948	2699944	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/11/24	1248	2698397	4
Arsenic		0.0281	0.0100	0.0250	mg/L	1.00	5					
Boron		0.785	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Barium	J	0.316	0.000670	2.00	mg/L	1.00	1	PRB	11/11/24	0211	2698397	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.132	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0479	0.00300	0.0400	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01524
Sample ID:	693032006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01524
Sample ID:	693032007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 16:12		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2720	33.5	100	mg/L		500	TXT1	11/01/24	0225	2698242	1
Sulfate		343	66.5	200	mg/L		500					
Fluoride		2.64	0.330	1.00	mg/L		10	TXT1	11/01/24	0153	2698242	2
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0950	2699944	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium	J	0.0571	0.000670	2.00	mg/L	1.00	1	PRB	11/11/24	0214	2698397	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.108	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0532	0.00300	0.0400	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/11/24	1252	2698397	5
Arsenic		0.0508	0.0100	0.0250	mg/L	1.00	5					
Boron		0.924	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01524
Sample ID:	693032007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01524
Sample ID:	693032008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 09:35		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.689	0.330	1.00	mg/L		10	TXT1	11/01/24	0359	2698242	1
Chloride		2010	33.5	100	mg/L		500	TXT1	11/01/24	0533	2698242	2
Sulfate		258	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0951	2699944	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium	J	0.0270	0.000670	2.00	mg/L	1.00	1	PRB	11/11/24	0218	2698397	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		34.6	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0531	0.00300	0.0400	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/11/24	1256	2698397	5
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Boron		0.987	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01524
Sample ID:	693032008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01524
Sample ID:	693032009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 12:00		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	TXT1	11/01/24	0707	2698242	1
Chloride		3990	33.5	100	mg/L		500	TXT1	11/01/24	0739	2698242	2
Sulfate		486	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0953	2699944	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	11/11/24	0222	2698397	4
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.129	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0491	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/11/24	1259	2698397	5
Arsenic		0.0280	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.328	0.00335	2.00	mg/L	1.00	5					
Boron		0.817	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01524
Sample ID:	693032009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01524
Sample ID:	693032010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	30-OCT-24 08:17		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	TXT1	11/01/24	1249	2698242	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0954	2699944	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	11/11/24	0225	2698397	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	11/11/24	1517	2698397	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01524
Sample ID:	693032010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01524
Sample ID:	693032011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	30-OCT-24 08:21		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	TXT1	11/01/24	0841	2698242	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Total Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0956	2699944	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	11/11/24	0236	2698397	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0798	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	11/11/24	1521	2698397	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01524
Sample ID:	693032011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01524
Sample ID:	693032012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 11:52		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0958	2699944	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/11/24	1532	2698397	2
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.542	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.516	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		19.4	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01524
Sample ID:	693032012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01524
Sample ID:	693032013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 09:46		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	0959	2699944	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	11/11/24	0244	2698397	2
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0495	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0677	0.00300	0.0400	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/11/24	1535	2698397	3
Arsenic		0.127	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.119	0.00335	2.00	mg/L	1.00	5					
Boron		0.735	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01524
Sample ID:	693032013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01524
Sample ID:	693032014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 15:36		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	1001	2699944	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/11/24	1539	2698397	2
Arsenic	J	0.0177	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.644	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.753	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	J	0.0402	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01524
Sample ID:	693032014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01524
Sample ID:	693032015	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 14:08		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	1006	2699944	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/11/24	1543	2698397	2
Arsenic	J	0.0240	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.539	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.630	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		2.20	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	J	0.0234	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01524
Sample ID:	693032015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01524
Sample ID:	693032016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 14:33		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	1008	2699944	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic	J	0.0154	0.0100	0.0250	mg/L	1.00	5	PRB	11/11/24	1546	2698397	2
Boron		0.703	0.0260	0.0750	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	11/11/24	0255	2698397	3
Barium	J	0.225	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.381	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0376	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000280	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01524
Sample ID:	693032016	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01524
Sample ID:	693032017	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 11:21		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	1009	2699944	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic		0.0256	0.0100	0.0250	mg/L	1.00	5	PRB	11/11/24	1550	2698397	2
Boron		0.788	0.0260	0.0750	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	11/11/24	0258	2698397	3
Barium	J	0.318	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.112	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0478	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000400	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01524
Sample ID:	693032017	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01524
Sample ID:	693032018	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 16:12		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	1011	2699944	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic		0.0676	0.0100	0.0250	mg/L	1.00	5	PRB	11/11/24	1554	2698397	2
Boron		0.897	0.0260	0.0750	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	11/11/24	0302	2698397	3
Barium	J	0.0543	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0459	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0528	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000596	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01524
Sample ID:	693032018	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01524
Sample ID:	693032019	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 09:35		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	1013	2699944	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	PRB	11/13/24	0744	2698397	2
Boron		0.951	0.0260	0.0750	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	11/11/24	0305	2698397	3
Barium	J	0.0272	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		31.9	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0502	0.00300	0.0400	mg/L	1.00	1					
Molybdenum	J	0.000547	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01524
Sample ID:	693032019	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01524
Sample ID:	693032020	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-OCT-24 12:00		
Receive Date:	31-OCT-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	11/06/24	1014	2699944	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	11/13/24	0747	2698397	2
Arsenic	J	0.0204	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.353	0.00335	2.00	mg/L	1.00	5					
Boron		0.755	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	11/11/24	0309	2698397	3
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.121	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0465	0.00300	0.0400	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	AXS5	11/05/24	1440	2699942
SW846 3005A	ICP-MS 3005A PREP	PB1	11/01/24	1445	2698396

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: November 13, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 10-Week Sampling October 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01524
Sample ID:	693032020	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: November 13, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **693032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2698242										
QC1205905585 693032001 DUP										
Chloride		5310		5270	mg/L	0.669		(0%-20%)	TXT1	10/31/24 18:34
Fluoride	U	ND	U	ND	mg/L	N/A				10/31/24 17:00
Sulfate		758		760	mg/L	0.329	^	(+/-400)		10/31/24 18:34
QC1205905587 693032008 DUP										
Chloride		2010		2010	mg/L	0.169		(0%-20%)		11/01/24 06:04
Fluoride	J	0.689	J	0.685	mg/L	0.582	^	(+/-1.00)		11/01/24 04:30
Sulfate		258		258	mg/L	0.0774	^	(+/-200)		11/01/24 06:04
QC1205905584 LCS										
Chloride	5.00			4.62	mg/L		92.4	(90%-110%)		10/31/24 15:57
Fluoride	2.50			2.33	mg/L		93.4	(90%-110%)		
Sulfate	10.0			9.29	mg/L		92.9	(90%-110%)		
QC1205905583 MB										
Chloride			U	ND	mg/L					10/31/24 15:26
Fluoride			U	ND	mg/L					
Sulfate			U	ND	mg/L					

QC Summary

Workorder: **693032**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2698242											
QC1205905586 693032001 PS											
Chloride	5.00		5.31		10.6	mg/L		106	(90%-110%)	TXT1	10/31/24 19:06
Fluoride	2.50	U	ND		2.34	mg/L		93.7	(90%-110%)		10/31/24 17:31
Sulfate	10.0		0.758		10.1	mg/L		93.1	(90%-110%)		10/31/24 19:06
QC1205905588 693032008 PS											
Chloride	5.00		4.02		9.16	mg/L		103	(90%-110%)		11/01/24 06:36
Fluoride	2.50	J	0.0689		2.44	mg/L		94.9	(90%-110%)		11/01/24 05:02
Sulfate	10.0		0.517		9.81	mg/L		92.9	(90%-110%)		11/01/24 06:36
Metals Analysis - ICPMS											
Batch 2698397											
QC1205905876 LCS											
Antimony	0.0500				0.0457	mg/L		91.3	(80%-120%)	PRB	11/11/24 12:04
Arsenic	0.0500				0.0484	mg/L		96.8	(80%-120%)		
Barium	0.0500				0.0491	mg/L		98.2	(80%-120%)		11/11/24 01:27
Beryllium	0.0500				0.0561	mg/L		112	(80%-120%)		
Boron	0.100				0.107	mg/L		107	(80%-120%)		11/11/24 12:04
Cadmium	0.0500				0.0484	mg/L		96.8	(80%-120%)		
Chromium	0.0500				0.0488	mg/L		97.7	(80%-120%)		11/11/24 01:27

QC Summary

Workorder: **693032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2698397										
Cobalt	0.0500			0.0479	mg/L		95.8	(80%-120%)	PRB	11/11/24 01:27
Iron	2.00			1.94	mg/L		97.2	(80%-120%)		
Lead	0.0500			0.0482	mg/L		96.3	(80%-120%)		
Lithium	0.0500			0.0534	mg/L		107	(80%-120%)		
Molybdenum	0.0500			0.0476	mg/L		95.3	(80%-120%)		11/11/24 12:04
Selenium	0.0500			0.0468	mg/L		93.7	(80%-120%)		
Thallium	0.0500			0.0458	mg/L		91.5	(80%-120%)		11/11/24 01:27
QC1205905875 MB										
Antimony			U	ND	mg/L					11/11/24 12:01
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					11/11/24 01:23
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					11/11/24 12:01
Cadmium			U	ND	mg/L					
Chromium			U	ND	mg/L					11/11/24 01:23

QC Summary

Workorder: **693032**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2698397											
Cobalt				U	ND	mg/L				PRB	11/11/24 01:23
Iron				U	ND	mg/L					
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Molybdenum				U	ND	mg/L					11/11/24 12:01
Selenium				U	ND	mg/L					
Thallium				U	ND	mg/L					11/11/24 01:23
QC1205905877 693032001 MS											
Antimony	0.0500	U	ND		0.0476	mg/L		94.2	(75%-125%)		11/11/24 12:12
Arsenic	0.0500	U	ND		0.0577	mg/L		106	(75%-125%)		
Barium	0.0500	J	0.504		0.547	mg/L		N/A	(75%-125%)		11/11/24 01:34
Beryllium	0.0500	U	ND		0.0453	mg/L		90.6	(75%-125%)		
Boron	0.100		0.536		0.633	mg/L		N/A	(75%-125%)		11/11/24 12:12
Cadmium	0.0500	U	ND		0.0460	mg/L		91.9	(75%-125%)		
Chromium	0.0500	U	ND		0.0469	mg/L		92.4	(75%-125%)		11/11/24 01:34

QC Summary

Workorder: **693032**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2698397											
Cobalt	0.0500	U	ND		0.0417	mg/L		83.2	(75%-125%)	PRB	11/11/24 01:34
Iron	2.00		19.1		20.7	mg/L		N/A	(75%-125%)		
Lead	0.0500	U	ND		0.0380	mg/L		76	(75%-125%)		
Lithium	0.0500	J	0.00707		0.0592	mg/L		104	(75%-125%)		
Molybdenum	0.0500	J	0.00119		0.0540	mg/L		106	(75%-125%)		11/11/24 12:12
Selenium	0.0500	U	ND		0.0563	mg/L		103	(75%-125%)		
Thallium	0.0500	U	ND		0.0394	mg/L		78.7	(75%-125%)		11/11/24 01:34
QC1205905878 693032001 MSD											
Antimony	0.0500	U	ND		0.0476	mg/L	0.021	94.2	(0%-20%)		11/11/24 12:15
Arsenic	0.0500	U	ND		0.0554	mg/L	4.01	101	(0%-20%)		
Barium	0.0500	J	0.504		0.526	mg/L	3.84	N/A	(0%-20%)		11/11/24 01:38
Beryllium	0.0500	U	ND		0.0428	mg/L	5.79	85.5	(0%-20%)		
Boron	0.100		0.536		0.604	mg/L	4.77	N/A	(0%-20%)		11/11/24 12:15
Cadmium	0.0500	U	ND		0.0451	mg/L	1.81	90.2	(0%-20%)		
Chromium	0.0500	U	ND		0.0453	mg/L	3.46	89.3	(0%-20%)		11/11/24 01:38

QC Summary

Workorder: **693032**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2698397											
Cobalt	0.0500	U	ND		0.0403	mg/L	3.2	80.5	(0%-20%)	PRB	11/11/24 01:38
Iron	2.00		19.1		19.9	mg/L	3.95	N/A	(0%-20%)		
Lead	0.0500	U	ND		0.0368	mg/L	3.25	73.5*	(0%-20%)		
Lithium	0.0500	J	0.00707		0.0569	mg/L	4	99.7	(0%-20%)		
Molybdenum	0.0500	J	0.00119		0.0528	mg/L	2.25	103	(0%-20%)		11/11/24 12:15
Selenium	0.0500	U	ND		0.0524	mg/L	7.05	95.3	(0%-20%)		
Thallium	0.0500	U	ND		0.0382	mg/L	3.03	76.4	(0%-20%)		11/11/24 01:38
QC1205914556 693032001 PS											
Lead	50.0	U	ND		37.8	ug/L		75.6	(75%-125%)		11/11/24 01:41
QC1205905879 693032001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		11/11/24 12:23
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium		J	504	J	101	ug/L	.22		(0%-20%)		11/11/24 01:45
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			107		25.7	ug/L	19.7		(0%-20%)		11/11/24 12:23
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **693032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2698397										
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	11/11/24 01:45
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Iron		19100		3960	ug/L	3.36		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	J	7.07	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	J	0.238	U	ND	ug/L	N/A		(0%-20%)		11/11/24 12:23
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		11/11/24 01:45
Metals Analysis-Mercury										
Batch 2699944										
QC1205908617 693032001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JM13	11/06/24 09:32
QC1205908616 LCS										
Mercury 0.00200				0.00210	mg/L		105	(80%-120%)		11/06/24 09:28
QC1205908615 MB										
Mercury			U	ND	mg/L					11/06/24 09:27
QC1205908618 693032001 MS										
Mercury 0.00200	U	ND		0.00188	mg/L		92.8	(75%-125%)		11/06/24 09:33

QC Summary

Workorder: **693032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch 2699944											
QC1205908619 693032001 SDILT Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)	JM13	11/06/24	09:35

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

QC Summary

Workorder: **693032**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 693032

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2698397

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2698396

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
693032001	MCM-INW-01
693032002	MCM-MCM-06
693032003	MCM-PT-01
693032004	MCM-PT-02
693032005	MCM-PT-03
693032006	MCM-DR-01
693032007	MCM-DR-02
693032008	MCM-DR-03
693032009	MCM-AP1-FD-01
693032010	MCM-AP1-FB-01
693032011	MCM-AP1-EB-01
693032012	MCM-INW-01
693032013	MCM-MCM-06
693032014	MCM-PT-01
693032015	MCM-PT-02
693032016	MCM-PT-03
693032017	MCM-DR-01
693032018	MCM-DR-02
693032019	MCM-DR-03
693032020	MCM-AP1-FD-01
1205905875	Method Blank (MB)**ICP-MS**
1205905876	Laboratory Control Sample (LCS)
1205905879	693032001(MCM-INW-01L) Serial Dilution (SD)
1205905877	693032001(MCM-INW-01S) Matrix Spike (MS)
1205905878	693032001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)
1205914556	693032001(MCM-INW-01PS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike recovery was within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recovery may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1205905878 (MCM-INW-01MSD)	Lead	73.5* (75%-125%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Per the SOP, samples 693032001 (MCM-INW-01), 693032002 (MCM-MCM-06), 693032003 (MCM-PT-01), 693032004 (MCM-PT-02), 693032005 (MCM-PT-03), 693032006 (MCM-DR-01), 693032007 (MCM-DR-02), 693032008 (MCM-DR-03), 693032009 (MCM-AP1-FD-01), 693032012 (MCM-INW-01), 693032013 (MCM-MCM-06), 693032014 (MCM-PT-01), 693032015 (MCM-PT-02), 693032016 (MCM-PT-03), 693032017 (MCM-DR-01), 693032018 (MCM-DR-02), 693032019 (MCM-DR-03) and 693032020 (MCM-AP1-FD-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	693032									
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**012**
Antimony	5X	1X	1X	1X	5X	5X	5X	5X	5X	5X
Arsenic	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Barium	1X	1X	1X	1X	1X	1X	1X	1X	5X	5X
Beryllium	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	1X	1X	1X	5X	5X	5X	5X	5X	5X
Chromium	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Cobalt	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Iron	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Lead	1X	1X	1X	1X	1X	1X	1X	1X	5X	5X
Lithium	1X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Molybdenum	5X	1X	1X	1X	5X	5X	5X	5X	5X	5X
Selenium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Thallium	1X	1X	1X	1X	1X	1X	1X	1X	5X	5X

Analyte	693032							
	013	**014**	**015**	**016**	**017**	**018**	**019**	**020**
Antimony	5X	5X	5X	1X	1X	1X	1X	5X

Arsenic	5X	5X	5X	5X	5X	5X	5X	5X
Barium	5X	5X	5X	1X	1X	1X	1X	5X
Beryllium	1X	5X	5X	1X	1X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	5X	5X	1X	1X	1X	1X	5X
Chromium	1X	5X	5X	1X	1X	1X	1X	1X
Cobalt	1X	5X	5X	1X	1X	1X	1X	1X
Iron	1X	5X	5X	1X	1X	1X	1X	1X
Lead	5X	5X	5X	1X	1X	1X	1X	5X
Lithium	1X	5X	5X	1X	1X	1X	1X	1X
Molybdenum	5X	5X	5X	1X	1X	1X	1X	5X
Selenium	5X	5X	5X	5X	5X	5X	5X	5X
Thallium	5X	5X	5X	1X	1X	1X	1X	5X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2699944

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2699942

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
693032001	MCM-INW-01
693032002	MCM-MCM-06
693032003	MCM-PT-01
693032004	MCM-PT-02
693032005	MCM-PT-03
693032006	MCM-DR-01
693032007	MCM-DR-02
693032008	MCM-DR-03
693032009	MCM-AP1-FD-01
693032010	MCM-AP1-FB-01
693032011	MCM-AP1-EB-01
693032012	MCM-INW-01
693032013	MCM-MCM-06
693032014	MCM-PT-01
693032015	MCM-PT-02
693032016	MCM-PT-03
693032017	MCM-DR-01
693032018	MCM-DR-02
693032019	MCM-DR-03
693032020	MCM-AP1-FD-01
1205908615	Method Blank (MB)**CVAA**
1205908616	Laboratory Control Sample (LCS)
1205908619	693032001(MCM-INW-01L) Serial Dilution (SD)
1205908617	693032001(MCM-INW-01D) Sample Duplicate (DUP)

1205908618	693032001(MCM-INW-01S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2698242

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
693032001	MCM-INW-01
693032002	MCM-MCM-06
693032003	MCM-PT-01
693032004	MCM-PT-02
693032005	MCM-PT-03
693032006	MCM-DR-01
693032007	MCM-DR-02
693032008	MCM-DR-03
693032009	MCM-AP1-FD-01
693032010	MCM-AP1-FB-01
693032011	MCM-AP1-EB-01
1205905583	Method Blank (MB)
1205905584	Laboratory Control Sample (LCS)
1205905585	693032001(MCM-INW-01) Sample Duplicate (DUP)
1205905586	693032001(MCM-INW-01) Post Spike (PS)
1205905587	693032008(MCM-DR-03) Sample Duplicate (DUP)
1205905588	693032008(MCM-DR-03) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
Samples 1205905585 (MCM-INW-01DUP), 1205905586 (MCM-INW-01PS), 1205905587 (MCM-DR-03DUP), 1205905588 (MCM-DR-03PS), 693032001 (MCM-INW-01), 693032002 (MCM-MCM-06), 693032003 (MCM-PT-01), 693032004 (MCM-PT-02), 693032005 (MCM-PT-03), 693032006 (MCM-DR-01), 693032007 (MCM-DR-02), 693032008 (MCM-DR-03) and 693032009 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Samples 1205905585 (MCM-INW-01DUP), 1205905586 (MCM-INW-01PS), 1205905587 (MCM-DR-03DUP), 1205905588 (MCM-DR-03PS), 693032001 (MCM-INW-01), 693032002

(MCM-MCM-06), 693032003 (MCM-PT-01), 693032004 (MCM-PT-02), 693032005 (MCM-PT-03), 693032006 (MCM-DR-01), 693032007 (MCM-DR-02), 693032008 (MCM-DR-03) and 693032009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	693032								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	500X	500X	500X	500X	500X	500X	500X	500X
Fluoride	10X	10X	10X	10X	10X	10X	10X	10X	10X
Sulfate	1000X	500X	500X	500X	500X	500X	500X	500X	500X

Sample Re-analysis
Sample 693032010 (MCM-AP1-FB-01) was re-analyzed to verify the result.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

693032

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus 10 Week Sampling October 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Natalie Piparo, Jay Siewert (Resolute Environmental)
Send Results To: knjurink@southernco.com; natalie.piparo@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)
MCM-INW-01	10/29/24	1152	G	Y*	WG			3	X	X	X	Comments: Note: extra sample is required for sample specific QC
MCM-MCM-06	10/29/24	0946	G	Y*	WG			3	X	X	X	Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl
MCM-PT-01	10/29/24	1536	G	Y*	WG			3	X	X	X	
MCM-PT-02	10/29/24	1408	G	Y*	WG			3	X	X	X	
MCM-PT-03	10/29/24	1433	G	Y*	WG			3	X	X	X	
MCM-DR-01	10/29/24	1121	G	Y*	WG			3	X	X	X	
MCM-DR-02	10/29/24	1612	G	Y*	WG			3	X	X	X	
MCM-DR-03	10/29/24	0935	G	Y*	WG			3	X	X	X	
MCM-AP1-FD-01	10/29/24	—	FD	Y*	WG			3	X	X	X	
MCM-AP1-FB-01	10/30/24	0817	FB	N	WQ			2	X		X	

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] Resolute Environmental	10/30/24	0945	1 FedEx	10/30/24	0945
2				2 [signature]	10/31/24	940
3				3		

TAT Requested: Normal: __X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20241028**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No ***Cooler Temp:*** 3 °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

****Dissolved metals are the only Field Filterd Samples****

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 10 Week Sampling October 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Natalie Piparo, Jay Siewert (Resolute Environmental)

Send Results To: knjurink@southernco.com; natalie.piparo@resoluteenv.com; trent.godwin@resoluteenv.com

Page 60 of 65 SDG: 603032

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	<-- Preservative Type (6)	Comments
MCM-AP1-EB-01	10/30/24	0821	EB	N	WQ			2	X		X		Metal List - As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Jay Siewert (Resolute Environmental)	10/30/24	0945	Erin Trent	10/31/24	940
2						
3						

TAT Requested: Normal: __X__ Rush:_____ Specify:_____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20241028**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 3 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* **- 3**, *6010B/7470A* **- 1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Plant McManus Performance Monitoring Sampling Week 10					
Task Code: MCM-CCR-CA-20241028					
Location Code/Label	**Sample Code**	**Matrix Code**	**Total Metals (6020B) [As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl]**	**Dissolved Metals (6020B) [As, Sb, Ba, Be, B, Cd, Cr, Co, Fe, Pb, Li, Hg, Mo, Se, Tl]**	**Cl, F, SO4 (EPA 300)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X		X
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X		X
Extra 1			X	X	X
Extra 2			X	X	X

** Dissloved samples to be field filtered

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

693032

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: EG	**Date Received:** 10/31/24
Carrier and Tracking Number	Circle Applicable: ~~FedEx Express~~ FedEx Ground UPS Field Services Courier Other 2812 3357 6542

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 **CPM / mR/Hr** **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	**Comments/Qualifiers (Required for Non-Conforming Items)**
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius **TEMP:** 3
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR4-24 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?			✓	ID's and containers affected: all containers have WG or WQ on end of ID
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials VM Date 11/4/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 13 November 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-42
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

December 03, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus 12-Week Sampling November 2024
Work Order: 695708

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on November 14, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
695708001	MCM-INW-01	Ground Water	11/12/24 15:15	11/14/24 09:15
695708002	MCM-MCM-06	Ground Water	11/12/24 10:26	11/14/24 09:15
695708003	MCM-PT-01	Ground Water	11/12/24 12:54	11/14/24 09:15
695708004	MCM-PT-02	Ground Water	11/13/24 09:47	11/14/24 09:15
695708005	MCM-PT-03	Ground Water	11/12/24 12:30	11/14/24 09:15
695708006	MCM-DR-01	Ground Water	11/12/24 15:35	11/14/24 09:15
695708007	MCM-DR-02	Ground Water	11/13/24 09:58	11/14/24 09:15
695708008	MCM-DR-03	Ground Water	11/12/24 10:29	11/14/24 09:15
695708009	MCM-AP1-FD-01	Ground Water	11/12/24 12:00	11/14/24 09:15
695708010	MCM-AP1-FB-01	Water	11/13/24 11:34	11/14/24 09:15
695708011	MCM-AP1-EB-01	Water	11/13/24 11:23	11/14/24 09:15
695708012	MCM-INW-01	Ground Water	11/12/24 15:15	11/14/24 09:15
695708013	MCM-MCM-06	Ground Water	11/12/24 10:26	11/14/24 09:15
695708014	MCM-PT-01	Ground Water	11/12/24 12:54	11/14/24 09:15
695708015	MCM-PT-02	Ground Water	11/13/24 09:47	11/14/24 09:15
695708016	MCM-PT-03	Ground Water	11/12/24 12:30	11/14/24 09:15

695708017	MCM-DR-01	Ground Water	11/12/24 15:35	11/14/24 09:15
695708018	MCM-DR-02	Ground Water	11/13/24 09:58	11/14/24 09:15
695708019	MCM-DR-03	Ground Water	11/12/24 10:29	11/14/24 09:15
695708020	MCM-AP1-FD-01	Ground Water	11/12/24 12:00	11/14/24 09:15

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

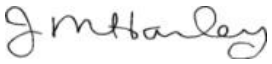
Method	Run Date ID
SW846 3005A	29-NOV-2024
SW846 7470A Prep	21-NOV-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	16-NOV-2024
EPA 300.0	17-NOV-2024
SM 2320B	14-NOV-2024
SM 2540C	19-NOV-2024
SW846 3005A/6020B	02-DEC-2024
SW846 3005A/6020B	03-DEC-2024
SW846 7470A	22-NOV-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,



Joanne Harley for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 695708 GEL Work Order: 695708

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N Metals--The Matrix spike sample recovery is not within specified control limits

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by J M Hanley

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01724
Sample ID:	695708001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 15:15		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5020	67.0	200	mg/L		1000	CWW	11/16/24	0859	2706932	1
Sulfate		730	133	400	mg/L		1000					
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	11/16/24	1937	2706932	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1110	2709282	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Magnesium		348	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2001	2706223	4
Sodium		3220	16.0	50.0	mg/L	1.00	200					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1135	2706223	5
Boron		0.587	0.0260	0.0750	mg/L	1.00	5					
Calcium		237	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		20.0	0.165	0.500	mg/L	1.00	5					
Lithium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.0747	0.00500	0.0250	mg/L	1.00	5					
Potassium		97.1	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0420	2706223	6
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.510	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000776	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00190	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9890	23.8	100	mg/L			KLP1	11/19/24	1344	2708083	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		180	0.725	2.00	mg/L			JW2	11/14/24	1341	2706069	8
Bicarbonate alkalinity (CaCO3)		180	0.725	2.00	mg/L							

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01724
Sample ID:	695708001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01724
Sample ID:	695708002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 10:26		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4040	33.5	100	mg/L		500	CWW	11/16/24	0930	2706932	1
Sulfate		430	66.5	200	mg/L		500					
Fluoride	J	0.501	0.330	1.00	mg/L		10	CWW	11/16/24	2009	2706932	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1122	2709282	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Magnesium		333	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2012	2706223	4
Sodium		2090	16.0	50.0	mg/L	1.00	200					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0424	2706223	5
Arsenic		0.109	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.113	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000912	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1138	2706223	6
Boron		0.770	0.0260	0.0750	mg/L	1.00	5					
Calcium		201	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5					
Lithium		0.0708	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.239	0.00500	0.0250	mg/L	1.00	5					
Potassium		98.7	0.400	1.50	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6250	23.8	100	mg/L			KLP1	11/19/24	1344	2708083	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		310	0.725	2.00	mg/L			JW2	11/14/24	1343	2706069	8
Bicarbonate alkalinity (CaCO3)		310	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01724
Sample ID:	695708002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: December 3, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 12-Week Sampling November 2024

Client Sample ID: MCM-PT-01
Sample ID: 695708003
Matrix: WG
Collect Date: 12-NOV-24 12:54
Receive Date: 14-NOV-24
Collector: Client

Project: GPCC01724
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4550	33.5	100	mg/L		500	CWW	11/16/24	1002	2706932	1
Sulfate		573	66.5	200	mg/L		500					
Fluoride	J	0.373	0.330	1.00	mg/L		10	CWW	11/16/24	2041	2706932	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1124	2709282	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1157	2706223	4
Boron		0.708	0.0260	0.0750	mg/L	1.00	5					
Calcium		189	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	J	0.218	0.165	0.500	mg/L	1.00	5					
Lithium	J	0.0374	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.307	0.00500	0.0250	mg/L	1.00	5					
Potassium		92.1	0.400	1.50	mg/L	1.00	5					
Magnesium		308	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2026	2706223	5
Sodium		2390	16.0	50.0	mg/L	1.00	200					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0449	2706223	6
Arsenic		0.0115	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.579	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000632	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7350	23.8	100	mg/L			KLP1	11/19/24	1344	2708083	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		236	0.725	2.00	mg/L			JW2	11/14/24	1345	2706069	8
Bicarbonate alkalinity (CaCO3)		236	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01724
Sample ID:	695708003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01724
Sample ID:	695708004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	13-NOV-24 09:47		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4380	33.5	100	mg/L		500	CWW	11/16/24	1034	2706932	1
Sulfate		547	66.5	200	mg/L		500					
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	11/16/24	2113	2706932	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1125	2709282	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0453	2706223	4
Arsenic	J	0.00446	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.533	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000742	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00184	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		286	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2030	2706223	5
Sodium		2340	16.0	50.0	mg/L	1.00	200					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1159	2706223	6
Boron		0.538	0.0260	0.0750	mg/L	1.00	5					
Calcium		185	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		2.04	0.165	0.500	mg/L	1.00	5					
Lithium	J	0.0179	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.258	0.00500	0.0250	mg/L	1.00	5					
Potassium		75.0	0.400	1.50	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7410	23.8	100	mg/L			KLP1	11/19/24	1433	2708088	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		199	0.725	2.00	mg/L			JW2	11/14/24	1346	2706069	8
Bicarbonate alkalinity (CaCO3)		199	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01724
Sample ID:	695708004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01724
Sample ID:	695708005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 12:30		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	11/16/24	2145	2706932	1
Chloride		4370	33.5	100	mg/L		500	CWW	11/16/24	1210	2706932	2
Sulfate		583	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1127	2709282	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0457	2706223	4
Arsenic		0.0106	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.312	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000473	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1202	2706223	5
Boron		0.633	0.0260	0.0750	mg/L	1.00	5					
Calcium		177	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		0.702	0.165	0.500	mg/L	1.00	5					
Lithium	J	0.0309	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.0931	0.00500	0.0250	mg/L	1.00	5					
Potassium		78.9	0.400	1.50	mg/L	1.00	5					
Magnesium		277	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2034	2706223	6
Sodium		2330	16.0	50.0	mg/L	1.00	200					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6420	23.8	100	mg/L			KLP1	11/19/24	1344	2708083	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		202	0.725	2.00	mg/L			JW2	11/14/24	1347	2706069	8
Bicarbonate alkalinity (CaCO3)		202	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01724
Sample ID:	695708005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01724
Sample ID:	695708006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 15:35		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		4440	33.5	100	mg/L		500	CWW	11/16/24	1242	2706932	1
Sulfate		537	66.5	200	mg/L		500					
Fluoride	J	0.437	0.330	1.00	mg/L		10	CWW	11/16/24	2217	2706932	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1129	2709282	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1205	2706223	4
Boron		0.776	0.0260	0.0750	mg/L	1.00	5					
Calcium		181	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		0.593	0.165	0.500	mg/L	1.00	5					
Lithium	J	0.0472	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.207	0.00500	0.0250	mg/L	1.00	5					
Potassium		91.8	0.400	1.50	mg/L	1.00	5					
Magnesium		321	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2037	2706223	5
Sodium		2320	16.0	50.0	mg/L	1.00	200					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0500	2706223	6
Arsenic		0.0205	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.344	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000719	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6870	23.8	100	mg/L			KLP1	11/19/24	1433	2708088	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		251	0.725	2.00	mg/L			JW2	11/14/24	1348	2706069	8
Bicarbonate alkalinity (CaCO3)		251	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01724
Sample ID:	695708006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01724
Sample ID:	695708007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	13-NOV-24 09:58		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.588	0.330	1.00	mg/L		10	CWW	11/16/24	2248	2706932	1
Chloride		3140	33.5	100	mg/L		500	CWW	11/16/24	1313	2706932	2
Sulfate		383	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1130	2709282	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1208	2706223	4
Boron		0.923	0.0260	0.0750	mg/L	1.00	5					
Calcium		130	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	J	0.324	0.165	0.500	mg/L	1.00	5					
Lithium		0.0567	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.115	0.00500	0.0250	mg/L	1.00	5					
Potassium		77.2	0.400	1.50	mg/L	1.00	5					
Magnesium		225	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2041	2706223	5
Sodium		1800	16.0	50.0	mg/L	1.00	200					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0504	2706223	6
Arsenic		0.0556	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0718	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.00105	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5780	23.8	100	mg/L			KLP1	11/19/24	1433	2708088	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		301	0.725	2.00	mg/L			JW2	11/14/24	1350	2706069	8
Bicarbonate alkalinity (CaCO3)		301	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01724
Sample ID:	695708007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01724
Sample ID:	695708008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 10:29		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.809	0.330	1.00	mg/L		10	CWW	11/16/24	2320	2706932	1
Chloride		2150	33.5	100	mg/L		500	CWW	11/16/24	1345	2706932	2
Sulfate		261	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1132	2709282	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0507	2706223	4
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0248	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000597	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		122	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2045	2706223	5
Sodium		1430	16.0	50.0	mg/L	1.00	200					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1210	2706223	6
Calcium		78.4	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		32.6	0.165	0.500	mg/L	1.00	5					
Lithium		0.0503	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.272	0.00500	0.0250	mg/L	1.00	5					
Potassium		57.8	0.400	1.50	mg/L	1.00	5					
Boron		0.934	0.0520	0.150	mg/L	1.00	10	PRB	12/03/24	1227	2706223	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4070	23.8	100	mg/L			KLP1	11/19/24	1433	2708088	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		268	0.725	2.00	mg/L			JW2	11/14/24	1351	2706069	9
Bicarbonate alkalinity (CaCO3)		268	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01724
Sample ID:	695708008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: December 3, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 12-Week Sampling November 2024

Client Sample ID: MCM-AP1-FD-01
Sample ID: 695708009
Matrix: WG
Collect Date: 12-NOV-24 12:00
Receive Date: 14-NOV-24
Collector: Client

Project: GPCC01724
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		3990	33.5	100	mg/L		500	CWW	11/16/24	1521	2706932	1
Sulfate		410	66.5	200	mg/L		500					
Fluoride	J	0.497	0.330	1.00	mg/L		10	CWW	11/17/24	0231	2706932	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1137	2709282	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1213	2706223	4
Boron		0.755	0.0260	0.0750	mg/L	1.00	5					
Calcium		196	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5					
Lithium		0.0709	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.230	0.00500	0.0250	mg/L	1.00	5					
Potassium		94.9	0.400	1.50	mg/L	1.00	5					
Magnesium		311	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2056	2706223	5
Sodium		1980	16.0	50.0	mg/L	1.00	200					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0511	2706223	6
Arsenic		0.108	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.108	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000789	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00170	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6670	23.8	100	mg/L			KLP1	11/19/24	1433	2708088	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		300	0.725	2.00	mg/L			JW2	11/14/24	1352	2706069	8
Bicarbonate alkalinity (CaCO3)		300	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01724
Sample ID:	695708009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: December 3, 2024

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 12-Week Sampling November 2024

Client Sample ID: MCM-AP1-FB-01
Sample ID: 695708010
Matrix: WQ
Collect Date: 13-NOV-24 11:34
Receive Date: 14-NOV-24
Collector: Client

Project: GPCC01724
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	11/16/24	1553	2706932	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1138	2709282	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0515	2706223	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	12/03/24	1216	2706223	4
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Magnesium	J	0.0123	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Sodium	J	0.106	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	11/19/24	1433	2708088	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	11/14/24	1354	2706069	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC01724
Sample ID:	695708010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01724
Sample ID:	695708011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	13-NOV-24 11:23		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	11/16/24	1624	2706932	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1140	2709282	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	PRB	12/03/24	1218	2706223	3
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Calcium	J	0.104	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0518	2706223	4
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	11/19/24	1519	2708090	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	11/14/24	1355	2706069	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC01724
Sample ID:	695708011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01724
Sample ID:	695708012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 15:15		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1142	2709282	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0529	2706223	2
Arsenic	J	0.00239	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.490	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000500	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00209	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		340	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2059	2706223	3
Sodium		3140	16.0	50.0	mg/L	1.00	200					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1230	2706223	4
Boron		0.568	0.0260	0.0750	mg/L	1.00	5					
Calcium		224	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		18.4	0.165	0.500	mg/L	1.00	5					
Lithium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.0720	0.00500	0.0250	mg/L	1.00	5					
Potassium		91.1	0.400	1.50	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-INW-01	Project:	GPCC01724
Sample ID:	695708012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01724
Sample ID:	695708013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 10:26		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1143	2709282	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0533	2706223	2
Arsenic		0.105	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.114	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000273	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		336	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2103	2706223	3
Sodium		2150	16.0	50.0	mg/L	1.00	200					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1232	2706223	4
Boron		0.764	0.0260	0.0750	mg/L	1.00	5					
Calcium		198	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5					
Lithium		0.0719	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.238	0.00500	0.0250	mg/L	1.00	5					
Potassium		96.4	0.400	1.50	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-MCM-06	Project:	GPCC01724
Sample ID:	695708013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01724
Sample ID:	695708014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 12:54		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1145	2709282	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1235	2706223	2
Boron		0.739	0.0260	0.0750	mg/L	1.00	5					
Calcium		186	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5					
Lithium	J	0.0363	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.308	0.00500	0.0250	mg/L	1.00	5					
Potassium		92.2	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0537	2706223	3
Arsenic	J	0.00987	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.588	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000366	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00176	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		308	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2107	2706223	4
Sodium		2380	16.0	50.0	mg/L	1.00	200					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-01	Project:	GPCC01724
Sample ID:	695708014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01724
Sample ID:	695708015	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	13-NOV-24 09:47		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1147	2709282	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Magnesium		291	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2110	2706223	2
Sodium		2360	16.0	50.0	mg/L	1.00	200					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1238	2706223	3
Boron		0.551	0.0260	0.0750	mg/L	1.00	5					
Calcium		188	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		1.95	0.165	0.500	mg/L	1.00	5					
Lithium	J	0.0176	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.261	0.00500	0.0250	mg/L	1.00	5					
Potassium		75.7	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0540	2706223	4
Arsenic	J	0.00409	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.563	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000543	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00181	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-02	Project:	GPCC01724
Sample ID:	695708015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01724
Sample ID:	695708016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 12:30		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1148	2709282	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0544	2706223	2
Arsenic	J	0.00943	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.311	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000320	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00181	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		309	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2114	2706223	3
Sodium		2570	16.0	50.0	mg/L	1.00	200					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1240	2706223	4
Boron		0.660	0.0260	0.0750	mg/L	1.00	5					
Calcium		183	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	J	0.453	0.165	0.500	mg/L	1.00	5					
Lithium	J	0.0320	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.0959	0.00500	0.0250	mg/L	1.00	5					
Potassium		82.1	0.400	1.50	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-PT-03	Project:	GPCC01724
Sample ID:	695708016	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01724
Sample ID:	695708017	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 15:35		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1150	2709282	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Magnesium		327	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2118	2706223	2
Sodium		2400	16.0	50.0	mg/L	1.00	200					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0548	2706223	3
Arsenic		0.0154	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.351	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000371	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00161	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1243	2706223	4
Boron		0.865	0.0260	0.0750	mg/L	1.00	5					
Calcium		201	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	J	0.242	0.165	0.500	mg/L	1.00	5					
Lithium		0.0537	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.225	0.00500	0.0250	mg/L	1.00	5					
Potassium		100	0.400	1.50	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-01	Project:	GPCC01724
Sample ID:	695708017	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01724
Sample ID:	695708018	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	13-NOV-24 09:58		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1152	2709282	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Magnesium		236	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2121	2706223	2
Sodium		1900	16.0	50.0	mg/L	1.00	200					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1246	2706223	3
Boron		0.907	0.0260	0.0750	mg/L	1.00	5					
Calcium		132	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5					
Lithium		0.0570	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.114	0.00500	0.0250	mg/L	1.00	5					
Potassium		78.5	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0551	2706223	4
Arsenic		0.0568	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0725	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000571	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-02	Project:	GPCC01724
Sample ID:	695708018	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01724
Sample ID:	695708019	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 10:29		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1156	2709282	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1249	2706223	2
Calcium		78.8	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		31.1	0.165	0.500	mg/L	1.00	5					
Lithium		0.0500	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.270	0.00500	0.0250	mg/L	1.00	5					
Potassium		58.0	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0555	2706223	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0251	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000500	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.948	0.0260	0.0750	mg/L	1.00	5	PRB	12/02/24	1953	2706223	4
Magnesium		125	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2125	2706223	5
Sodium		1440	16.0	50.0	mg/L	1.00	200					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-DR-03	Project:	GPCC01724
Sample ID:	695708019	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01724
Sample ID:	695708020	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-NOV-24 12:00		
Receive Date:	14-NOV-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	11/22/24	1158	2709282	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5	PRB	12/03/24	1251	2706223	2
Boron		0.743	0.0260	0.0750	mg/L	1.00	5					
Calcium		186	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron	U	ND	0.165	0.500	mg/L	1.00	5					
Lithium		0.0655	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.221	0.00500	0.0250	mg/L	1.00	5					
Potassium		90.1	0.400	1.50	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	12/02/24	0559	2706223	3
Arsenic		0.105	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.110	0.000670	2.00	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.000284	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00155	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		317	2.00	6.00	mg/L	1.00	200	PRB	12/02/24	2129	2706223	4
Sodium		2020	16.0	50.0	mg/L	1.00	200					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	11/29/24	0850	2706220
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	11/21/24	1125	2709279

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: December 3, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 12-Week Sampling November 2024

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC01724
Sample ID:	695708020	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: December 3, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **695708**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2706932												
QC1205921931 695708008 DUP												
Chloride			2150		2150	mg/L	0.216			(0%-20%)	CWW	11/16/24 14:17
Fluoride		J	0.809	J	0.834	mg/L	3.04	^		(+/-1.00)		11/16/24 23:52
Sulfate			261		276	mg/L	5.33	^		(+/-200)		11/16/24 14:17
QC1205921928 LCS												
Chloride	5.00				4.77	mg/L			95.3	(90%-110%)		11/16/24 05:16
Fluoride	2.50				2.42	mg/L			96.8	(90%-110%)		
Sulfate	10.0				9.77	mg/L			97.7	(90%-110%)		
QC1205921927 MB												
Chloride				U	ND	mg/L						11/16/24 04:44
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205921932 695708008 PS												
Chloride	5.00		4.29		9.39	mg/L			102	(90%-110%)		11/16/24 14:49
Fluoride	2.50	J	0.0809		2.49	mg/L			96.3	(90%-110%)		11/17/24 00:24
Sulfate	10.0		0.523		10.1	mg/L			95.8	(90%-110%)		11/16/24 14:49

QC Summary

Workorder: **695708**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2706223										
QC1205920659 LCS										
Antimony	0.0500			0.0458	mg/L		91.5	(80%-120%)	PRB	12/02/24 04:16
Arsenic	0.0500			0.0510	mg/L		102	(80%-120%)		12/03/24 11:32
Barium	0.0500			0.0453	mg/L		90.7	(80%-120%)		12/02/24 04:16
Beryllium	0.0500			0.0513	mg/L		103	(80%-120%)		12/03/24 11:32
Boron	0.100			0.0976	mg/L		97.6	(80%-120%)		
Cadmium	0.0500			0.0493	mg/L		98.6	(80%-120%)		12/02/24 04:16
Calcium	2.00			2.15	mg/L		107	(80%-120%)		12/03/24 11:32
Chromium	0.0500			0.0517	mg/L		103	(80%-120%)		
Cobalt	0.0500			0.0509	mg/L		102	(80%-120%)		
Iron	2.00			2.05	mg/L		103	(80%-120%)		
Lead	0.0500			0.0460	mg/L		92	(80%-120%)		12/02/24 04:16
Lithium	0.0500			0.0508	mg/L		102	(80%-120%)		12/03/24 11:32
Magnesium	2.00			2.05	mg/L		103	(80%-120%)		
Manganese	0.0500			0.0504	mg/L		101	(80%-120%)		

QC Summary

Workorder: **695708**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2706223										
Molybdenum	0.0500			0.0475	mg/L		95	(80%-120%)	PRB	12/02/24 04:16
Potassium	2.00			2.04	mg/L		102	(80%-120%)		12/03/24 11:32
Selenium	0.0500			0.0520	mg/L		104	(80%-120%)		
Sodium	2.00			1.98	mg/L		99	(80%-120%)		
Thallium	0.0500			0.0433	mg/L		86.6	(80%-120%)		12/02/24 04:16
QC1205920658 MB										
Antimony			U	ND	mg/L					12/02/24 04:13
Arsenic			U	ND	mg/L					12/03/24 11:30
Barium			U	ND	mg/L					12/02/24 04:13
Beryllium			U	ND	mg/L					12/03/24 11:30
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					12/02/24 04:13
Calcium			U	ND	mg/L					12/03/24 11:30
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **695708**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2706223										
Iron			U	ND	mg/L				PRB	12/03/24 11:30
Lead			U	ND	mg/L					12/02/24 04:13
Lithium			U	ND	mg/L					12/03/24 11:30
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			J	0.000277	mg/L					12/02/24 04:13
Potassium			U	ND	mg/L					12/03/24 11:30
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					12/02/24 04:13
QC1205920660 695708002 MS										
Antimony	0.0500	U	ND	0.0463	mg/L		92.3	(75%-125%)		12/02/24 04:27
Arsenic	0.0500		0.109	0.152	mg/L		85.9	(75%-125%)		
Barium	0.0500	J	0.113	0.158	mg/L		89.8	(75%-125%)		
Beryllium	0.0500	U	ND	0.0596	mg/L		119	(75%-125%)		12/03/24 11:41

QC Summary

Workorder: **695708**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2706223											
Boron	0.100		0.770		0.900	mg/L		N/A	(75%-125%)	PRB	12/03/24 11:41
Cadmium	0.0500	U	ND		0.0432	mg/L		86.3	(75%-125%)		12/02/24 04:27
Calcium	2.00		201		205	mg/L		N/A	(75%-125%)		12/03/24 11:41
Chromium	0.0500	U	ND		0.0552	mg/L		108	(75%-125%)		
Cobalt	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)		
Iron	2.00	U	ND		2.18	mg/L		104	(75%-125%)		
Lead	0.0500	U	ND		0.0398	mg/L		79.7	(75%-125%)		12/02/24 04:27
Lithium	0.0500		0.0708		0.131	mg/L		120	(75%-125%)		12/03/24 11:41
Magnesium	2.00		333		335	mg/L		N/A	(75%-125%)		12/02/24 20:15
Manganese	0.0500		0.239		0.296	mg/L		N/A	(75%-125%)		12/03/24 11:41
Molybdenum	0.0500	J	0.000912		0.0550	mg/L		108	(75%-125%)		12/02/24 04:27
Potassium	2.00		98.7		102	mg/L		N/A	(75%-125%)		12/03/24 11:41
Selenium	0.0500	U	ND		0.0196	mg/L		36.7*	(75%-125%)		12/02/24 04:27
Sodium	2.00		2090		2100	mg/L		N/A	(75%-125%)		12/02/24 20:15

QC Summary

Workorder: **695708**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2706223											
Thallium	0.0500	U	ND		0.0390	mg/L		77.9	(75%-125%)	PRB	12/02/24 04:27
QC1205920661 695708002 MSD											
Antimony	0.0500	U	ND		0.0446	mg/L	3.82	88.8	(0%-20%)		12/02/24 04:31
Arsenic	0.0500		0.109		0.148	mg/L	2.89	77.3	(0%-20%)		
Barium	0.0500	J	0.113		0.155	mg/L	2.11	83.2	(0%-20%)		
Beryllium	0.0500	U	ND		0.0560	mg/L	6.14	112	(0%-20%)		12/03/24 11:43
Boron	0.100		0.770		0.866	mg/L	3.83	N/A	(0%-20%)		
Cadmium	0.0500	U	ND		0.0426	mg/L	1.35	85.1	(0%-20%)		12/02/24 04:31
Calcium	2.00		201		198	mg/L	3.26	N/A	(0%-20%)		12/03/24 11:43
Chromium	0.0500	U	ND		0.0530	mg/L	4.06	104	(0%-20%)		
Cobalt	0.0500	U	ND		0.0512	mg/L	3.62	102	(0%-20%)		
Iron	2.00	U	ND		2.12	mg/L	2.72	101	(0%-20%)		
Lead	0.0500	U	ND		0.0396	mg/L	0.705	79.1	(0%-20%)		12/02/24 04:31
Lithium	0.0500		0.0708		0.127	mg/L	3.35	112	(0%-20%)		12/03/24 11:43
Magnesium	2.00		333		312	mg/L	7.17	N/A	(0%-20%)		12/02/24 20:19

QC Summary

Workorder: **695708**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2706223											
Manganese	0.0500		0.239		0.287	mg/L	2.86	N/A	(0%-20%)	PRB	12/03/24 11:43
Molybdenum	0.0500	J	0.000912		0.0529	mg/L	3.85	104	(0%-20%)		12/02/24 04:31
Potassium	2.00		98.7		98.3	mg/L	3.34	N/A	(0%-20%)		12/03/24 11:43
Selenium	0.0500	U	ND		0.0197	mg/L	0.515	36.9*	(0%-20%)		12/02/24 04:31
Sodium	2.00		2090		1960	mg/L	7.11	N/A	(0%-20%)		12/02/24 20:19
Thallium	0.0500	U	ND		0.0381	mg/L	2.29	76.1	(0%-20%)		12/02/24 04:31
QC1205935507 695708002 PS											
Selenium	50.0	U	ND		42.8	ug/L		83.2	(75%-125%)		12/02/24 04:35
QC1205920662 695708002 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		12/02/24 04:38
Arsenic			109		25.1	ug/L	14.9		(0%-20%)		
Barium		J	113	J	22.5	ug/L	.675		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		12/03/24 11:49
Boron			154		31.9	ug/L	3.47		(0%-20%)		
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		12/02/24 04:38
Calcium			40200		7970	ug/L	.84		(0%-20%)		12/03/24 11:49

QC Summary

Workorder: **695708**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2706223										
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	12/03/24 11:49
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Iron	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		12/02/24 04:38
Lithium		14.2	U	ND	ug/L	N/A		(0%-20%)		12/03/24 11:49
Magnesium		1660		334	ug/L	.366		(0%-20%)		12/02/24 20:23
Manganese		47.7		9.52	ug/L	.262		(0%-20%)		12/03/24 11:49
Molybdenum	J	0.912	J	0.319	ug/L	74.9		(0%-20%)		12/02/24 04:38
Potassium		19700		3860	ug/L	2.12		(0%-20%)		12/03/24 11:49
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		12/02/24 04:38
Sodium		10500		2160	ug/L	3.42		(0%-20%)		12/02/24 20:23
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		12/02/24 04:38
Metals Analysis-Mercury										
Batch 2709282										
QC1205926484 695708001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	11/22/24 11:12

QC Summary

Workorder: **695708**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2709282										
QC1205926483 LCS										
Mercury	0.00200			0.00180	mg/L		90.2	(80%-120%)	JP2	11/22/24 11:09
QC1205926482 MB										
Mercury			U	ND	mg/L					11/22/24 11:07
QC1205926485 695708001 MS										
Mercury	0.00200	U ND		0.00157	mg/L		78.4	(75%-125%)		11/22/24 11:17
QC1205926486 695708001 SDILT										
Mercury		U ND	U	ND	ug/L	N/A		(0%-10%)		11/22/24 11:19
Solids Analysis										
Batch 2708083										
QC1205924326 695846002 DUP										
Total Dissolved Solids		383		386	mg/L	0.78		(0%-5%)	KLP1	11/19/24 13:44
QC1205924324 LCS										
Total Dissolved Solids	300			299	mg/L		99.7	(95%-105%)		11/19/24 13:44
QC1205924323 MB										
Total Dissolved Solids			U	ND	mg/L					11/19/24 13:44
Batch 2708088										
QC1205924332 695554001 DUP										
Total Dissolved Solids		237		236	mg/L	0.423		(0%-5%)	KLP1	11/19/24 14:33
QC1205924331 LCS										
Total Dissolved Solids	300			303	mg/L		101	(95%-105%)		11/19/24 14:33
QC1205924330 MB										
Total Dissolved Solids			U	ND	mg/L					11/19/24 14:33

QC Summary

Workorder: **695708**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2708090										
QC1205924339 695760006 DUP										
Total Dissolved Solids		224		224	mg/L	0		(0%-5%)	KLP1	11/19/24 15:19
QC1205924338 LCS										
Total Dissolved Solids	300			298	mg/L		99.3	(95%-105%)		11/19/24 15:19
QC1205924337 MB										
Total Dissolved Solids			U	ND	mg/L					11/19/24 15:19
Titration and Ion Analysis										
Batch 2706069										
QC1205920302 LCS										
Alkalinity, Total as CaCO3	50.0			53.1	mg/L		106		JW2	11/14/24 13:37
QC1205920305 LCS										
Alkalinity, Total as CaCO3	15.0			15.9	mg/L		106			11/14/24 13:39
QC1205920306 LCSD										
Alkalinity, Total as CaCO3	50.0			53.4	mg/L	0.563	107			11/14/24 13:38
QC1205920307 LCSD										
Alkalinity, Total as CaCO3	15.0			15.4	mg/L	3.19	103			11/14/24 13:40

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded

QC Summary

Workorder: **695708**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 695708

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2706223

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2706220

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
695708001	MCM-INW-01
695708002	MCM-MCM-06
695708003	MCM-PT-01
695708004	MCM-PT-02
695708005	MCM-PT-03
695708006	MCM-DR-01
695708007	MCM-DR-02
695708008	MCM-DR-03
695708009	MCM-AP1-FD-01
695708010	MCM-AP1-FB-01
695708011	MCM-AP1-EB-01
695708012	MCM-INW-01
695708013	MCM-MCM-06
695708014	MCM-PT-01
695708015	MCM-PT-02
695708016	MCM-PT-03
695708017	MCM-DR-01
695708018	MCM-DR-02
695708019	MCM-DR-03
695708020	MCM-AP1-FD-01
1205920658	Method Blank (MB)**ICP-MS**
1205920659	Laboratory Control Sample (LCS)
1205920662	695708002(MCM-MCM-06L) Serial Dilution (SD)
1205920660	695708002(MCM-MCM-06S) Matrix Spike (MS)
1205920661	695708002(MCM-MCM-06SD) Matrix Spike Duplicate (MSD)
1205935507	695708002(MCM-MCM-06PS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analytes. The post spike recoveries were within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recoveries may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1205920660 (MCM-MCM-06MS)	Selenium	36.7* (75%-125%)
1205920661 (MCM-MCM-06MSD)	Selenium	36.9* (75%-125%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 695708001 (MCM-INW-01), 695708002 (MCM-MCM-06), 695708003 (MCM-PT-01), 695708004 (MCM-PT-02), 695708005 (MCM-PT-03), 695708006 (MCM-DR-01), 695708007 (MCM-DR-02), 695708008 (MCM-DR-03), 695708009 (MCM-AP1-FD-01), 695708012 (MCM-INW-01), 695708013 (MCM-MCM-06), 695708014 (MCM-PT-01), 695708015 (MCM-PT-02), 695708016 (MCM-PT-03), 695708017 (MCM-DR-01), 695708018 (MCM-DR-02), 695708019 (MCM-DR-03) and 695708020 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 695708001 (MCM-INW-01), 695708002 (MCM-MCM-06), 695708003 (MCM-PT-01), 695708004 (MCM-PT-02), 695708005 (MCM-PT-03), 695708006 (MCM-DR-01), 695708007 (MCM-DR-02), 695708008 (MCM-DR-03), 695708009 (MCM-AP1-FD-01), 695708012 (MCM-INW-01), 695708013 (MCM-MCM-06), 695708014 (MCM-PT-01), 695708015 (MCM-PT-02), 695708016 (MCM-PT-03), 695708017 (MCM-DR-01), 695708018 (MCM-DR-02), 695708019 (MCM-DR-03) and 695708020 (MCM-AP1-FD-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	695708									
	001	002	003	004	005	006	007	008	009	012
Beryllium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Boron	5X	5X	5X	5X	5X	5X	5X	10X	5X	5X
Calcium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Chromium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cobalt	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Iron	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Lithium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Magnesium	200X	200X	200X	200X	200X	200X	200X	200X	200X	200X
Manganese	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Potassium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Sodium	200X	200X	200X	200X	200X	200X	200X	200X	200X	200X

Analyte	695708							
	013	014	015	016	017	018	019	020
Beryllium	5X	5X	5X	5X	5X	5X	5X	5X
Boron	5X	5X	5X	5X	5X	5X	5X	5X
Calcium	5X	5X	5X	5X	5X	5X	5X	5X
Chromium	5X	5X	5X	5X	5X	5X	5X	5X
Cobalt	5X	5X	5X	5X	5X	5X	5X	5X
Iron	5X	5X	5X	5X	5X	5X	5X	5X
Lithium	5X	5X	5X	5X	5X	5X	5X	5X
Magnesium	200X	200X	200X	200X	200X	200X	200X	200X
Manganese	5X	5X	5X	5X	5X	5X	5X	5X
Potassium	5X	5X	5X	5X	5X	5X	5X	5X
Sodium	200X	200X	200X	200X	200X	200X	200X	200X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2709282

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2709279

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
695708001	MCM-INW-01
695708002	MCM-MCM-06
695708003	MCM-PT-01
695708004	MCM-PT-02
695708005	MCM-PT-03
695708006	MCM-DR-01
695708007	MCM-DR-02
695708008	MCM-DR-03
695708009	MCM-AP1-FD-01
695708010	MCM-AP1-FB-01
695708011	MCM-AP1-EB-01
695708012	MCM-INW-01
695708013	MCM-MCM-06
695708014	MCM-PT-01
695708015	MCM-PT-02
695708016	MCM-PT-03
695708017	MCM-DR-01
695708018	MCM-DR-02
695708019	MCM-DR-03
695708020	MCM-AP1-FD-01
1205926482	Method Blank (MB)**CVAA**
1205926483	Laboratory Control Sample (LCS)
1205926486	695708001(MCM-INW-01L) Serial Dilution (SD)
1205926484	695708001(MCM-INW-01D) Sample Duplicate (DUP)

1205926485	695708001(MCM-INW-01S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 35
Analytical Batch: 2706932

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
695708001	MCM-INW-01
695708002	MCM-MCM-06
695708003	MCM-PT-01
695708004	MCM-PT-02
695708005	MCM-PT-03
695708006	MCM-DR-01
695708007	MCM-DR-02
695708008	MCM-DR-03
695708009	MCM-AP1-FD-01
695708010	MCM-AP1-FB-01
695708011	MCM-AP1-EB-01
1205921927	Method Blank (MB)
1205921928	Laboratory Control Sample (LCS)
1205921931	695708008(MCM-DR-03) Sample Duplicate (DUP)
1205921932	695708008(MCM-DR-03) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
Samples 1205921931 (MCM-DR-03DUP), 1205921932 (MCM-DR-03PS), 695708001 (MCM-INW-01), 695708002 (MCM-MCM-06), 695708003 (MCM-PT-01), 695708004 (MCM-PT-02), 695708005 (MCM-PT-03), 695708006 (MCM-DR-01), 695708007 (MCM-DR-02), 695708008 (MCM-DR-03) and 695708009 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Samples 1205921931 (MCM-DR-03DUP), 1205921932 (MCM-DR-03PS), 695708001 (MCM-INW-01), 695708002 (MCM-MCM-06), 695708003 (MCM-PT-01), 695708004 (MCM-PT-02), 695708005 (MCM-PT-03), 695708006 (MCM-DR-01), 695708007 (MCM-DR-02), 695708008 (MCM-DR-03) and 695708009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring

over range target analyte concentrations into the linear calibration range.

Analyte	695708								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	500X	500X	500X	500X	500X	500X	500X	500X
Fluoride	10X	10X	10X	10X	10X	10X	10X	10X	10X
Sulfate	1000X	500X	500X	500X	500X	500X	500X	500X	500X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2708083

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
695708001	MCM-INW-01
695708002	MCM-MCM-06
695708003	MCM-PT-01
695708005	MCM-PT-03
1205924323	Method Blank (MB)
1205924324	Laboratory Control Sample (LCS)
1205924326	695846002(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 695708001 (MCM-INW-01), 695708002 (MCM-MCM-06), 695708003 (MCM-PT-01) and 695708005 (MCM-PT-03).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2708088

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
695708004	MCM-PT-02
695708006	MCM-DR-01
695708007	MCM-DR-02
695708008	MCM-DR-03
695708009	MCM-AP1-FD-01

695708010	MCM-AP1-FB-01
1205924330	Method Blank (MB)
1205924331	Laboratory Control Sample (LCS)
1205924332	695554001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 695708004 (MCM-PT-02), 695708006 (MCM-DR-01), 695708007 (MCM-DR-02), 695708008 (MCM-DR-03) and 695708009 (MCM-AP1-FD-01).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2708090

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
695708011	MCM-AP1-EB-01
1205924337	Method Blank (MB)
1205924338	Laboratory Control Sample (LCS)
1205924339	695760006(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2706069

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
695708001	MCM-INW-01
695708002	MCM-MCM-06
695708003	MCM-PT-01
695708004	MCM-PT-02
695708005	MCM-PT-03
695708006	MCM-DR-01

695708007	MCM-DR-02
695708008	MCM-DR-03
695708009	MCM-AP1-FD-01
695708010	MCM-AP1-FB-01
695708011	MCM-AP1-EB-01
1205920302	Laboratory Control Sample (LCS)
1205920305	Laboratory Control Sample (LCS)
1205920306	Laboratory Control Sample Duplicate (LCSD)
1205920307	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

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695708

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 12-Week Sampling November 2024 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Jay Siewert, Will Laaker (Resolute Environmental)

Send Results To: knjurink@southernco.com; natalie.piparo@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)	Comments
MCM-INW-01	11/12/24	1515	G	Y*	WG				X	X	X	X	X		Note: extra sample is required for sample specific QC
MCM-MCM-06	11/12/24	1026	G	Y*	WG				X	X	X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl
MCM-PT-01	11/12/24	1254	G	Y*	WG				X	X	X	X	X		
MCM-PT-02	11/13/24	0947	G	Y*	WG				X	X	X	X	X		
MCM-PT-03	11/12/24	1230	G	Y*	WG				X	X	X	X	X		
MCM-DR-01	11/12/24	1535	G	Y*	WG				X	X	X	X	X		
MCM-DR-02	11/13/24	0958	G	Y*	WG				X	X	X	X	X		
MCM-DR-03	11/12/24	1029	G	Y*	WG				X	X	X	X	X		
MCM-AP1-FD-01	11/12/24	—	FD	Y*	WG				X	X	X	X	X		
MCM-AP1-FB-01	11/13/24	1134	FB	N	WQ				X		X	X	X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	11/13/24	1330	1 Fedex	11/13/24	1330
2				2	11/14/24	915
3				3		

TAT Requested: Normal: __X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20241111** 238570

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No **Cooler Temp:** ____ °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

****Dissolved metals are the only Field Filterd Samples****

Page 03 of 67 SDG: 695708

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number (1):
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus 12-Week Sampling November 2024 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Jay Siewert, Will Laaker (Resolute Environmental) Send Results To: knjurink@southernco.com; natalie.piparo@resoluteenv.com; trent.godwin@resoluteenv.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list NI	Dissolved Metals* (6020B) - see list NI	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)					<-- Preservative Type (6)
MCM-AP1-EB-01	11/13/24	1123	EB	N	WQ				X		X	X	X					Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	Resolute Environmental	11/13/24	1330		11/14/24	905
2						
3						

TAT Requested: Normal: __X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20241111** 238570

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 1 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Plant McManus Performance Monitoring Sampling Week 12							
Task Code: MCM-CCR-CA-20241111							
Location Code/Label	**Sample Code**	**Matrix Code**	**Total Metals (6020B) [As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl]**	**Dissolved Metals (6020B) [As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl]**	**Cl, F, SO4 (EPA 300)**	**TDS (SM2540)**	**Total Alk/Carb/Bicarb (SM2320B)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X	X	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X	X	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X	X	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X	X	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X	X	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X	X	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X	X	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X	X	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X	X	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X		X	X	X
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X		X	X	X
Extra 1			X	X	X	X	X
Extra 2			X	X	X	X	X

** Dissloved samples to be field filtered

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

695708

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 11/14/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 2817 6154 4985

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr **Classified as: Rad 1 Rad 2 Rad 3**
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 1°c
4	Daily check performed and passed on IR temperature gun?	✓			**Temperature Device Serial #:** IR1-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?		✓		Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?		✓		If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?		✓		Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HTB Date NOV 15 2024 Page 1 of 1

List of current GEL Certifications as of 03 December 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-43
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Arcadis

IT^2 FILE # 240425

2024-12-16

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3,
Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

Reported: 2024-12-16

FedEx: 278931610986

ISOTOPE TRACER TECHNOLOGIES INC

Client: Arcadis
Address: 1003 Weatherstone Pkwy Ste 320
Woodstock GA 30189
Att.: Kathryn Farris
E-mail: Kathryn.Farris@arcadis.com
Phone: 470-895-0653

File Number: 240425
Project #: MCM-CCR-CA-20240826
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
		Date	Time			VSMOW		
1	DR-03	2024-08-27	10:22	172358	X	2647.3	27.6	1 x 60mL P.Bottle
2	ZNW-01	2024-08-27	12:12	172359	X	2330.5	2.9	1 x 60mL P.Bottle
3	PT-03	2024-08-27	15:10	172360	X	399.2	1.5	1 x 60mL P.Bottle
4	DR-02	2024-08-27	16:30	172361	X	8.8	0.2	1 x 60mL P.Bottle
5	FD-01	2024-08-27		172362	X	2665.1	22.0	1 x 60mL P.Bottle
6	PT-02	2024-08-28	10:12	172363	X	1.1	0.4	1 x 60mL P.Bottle
7	DR-01	2024-08-28	11:46	172364	X	8.2	0.5	1 x 60mL P.Bottle
8	PT-01	2024-08-28	14:10	172365	X	10.6	0.5	1 x 60mL P.Bottle
9	MCM-06	2024-08-28	15:34	172366	X	11.1	0.4	1 x 60mL P.Bottle

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).

Standard Used:
IT2-12E / IT2-13D / IT2-14C/ IT2-15B Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)

Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3, Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required	Service Requested	
	(regular)	
ASAP	*(Rush)*	

COMPANY NAME	Resolute Environmental
OFFICE ADDRESS	1063 Woodstock Rd Ste 4 Woodstock, GA 30188
PROJECT MANAGER:	Kathryn Farris
PROJECT #	
PHONE #	470-895-0663
FAX #	
PO #	

REPORT FORMAT/DISTRIBUTION

EMAIL __X__ FAX _____ BOTH _____ SELECT: PDF _____ DIGITAL ____ BOTH _X___

EMAIL 1 EMAIL 2

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX					
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT	NUMBER OF CONTAINERS	ANALYSIS REQUEST
2024-08-27	1022		X	X			DR-03	1	
2024-08-27	1212		X	X			EMW-01	1	
2024-08-27	1510		X	X			PT-03	1	
2024-08-27	1630		X	X			DR-02	1	
2024-08-27	—		X	X			FD-01	1	
2024-08-28	1012		X	X			PT-02	1	
2024-08-28	1146		X	X			DR-01	1	
2024-08-28	1410		X	X			PT-01	1	
2024-08-28	1534		X	X			MCM-06	1	

PLEASE INDICATE FILTERED, PRESERVED OR BOTH <---- (F, P, F/P)

SUBMISSION #:

ENTERED BY:

DATE/TIME ENTERED:

BIN #:

COMMENTS | LAB ID

SPECIAL INSTRUCTIONS/COMMENTS

THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)

Are any samples taken from a regulated DW System? Yes ___ No ___

If yes, an authorized drinking water COC MUST be used for this submission.

Is the water sampled intended to be potable for human consumption? Yes ___ No

SAMPLE CONDITION

___ FROZEN
___ COLD
___ COOLING INITIATED
___ AMBIENT

SAMPLED BY: Kevin Stephenson	DATE & TIME	RECEIVED BY:	DATE & TIME
RELINQUISHED BY:	DATE & TIME	RECEIVED AT LAB BY: Nour	DATE & TIME 2024-09-09

Observations

1. TAT may vary dependent on complexity of analysis and lab workload at time of submission. Please contact the lab to confirm TATs.

2. Any known or suspected hazards relating to a sample must be noted on the chain of custody in comments section.

Plant McManus Performance Monitoring Sampling Week 1			
Task Code: MCM-CCR-CA-20240826			
Location Code/Label	**Sample Code**	**Matrix Code**	**Deuterium[2] (IRMS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X
MCM-PT-01	MCM-PT-01-WG-	WG	X
MCM-PT-02	MCM-PT-02-WG-	WG	X
MCM-PT-03	MCM-PT-03-WG-	WG	X
MCM-DR-01	MCM-DR-01-WG-	WG	X
MCM-DR-02	MCM-DR-02-WG-	WG	X
MCM-DR-03	MCM-DR-03-WG-	WG	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	
Extra 1			X
Extra 2			

[2]Deuterium samples to be analyzed by Isotope Tracer Technologies Inc.

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company

IT^2 FILE # 240429

2024-11-08

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3,
Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

Reported: 2024-11-08

FedEx: 778290368623

ISOTOPE TRACER TECHNOLOGIES INC

Client: Southern Company
Address: 241 Ralph McGill Blvd NE
Atlanta, GA 30308
Att.: Kristen Jurinko
E-mail: knjurink@southernco.com
E-mail: stephenson@resoluteenv.com
E-mail: Kathryn.Farris@arcadis.com
Phone: 470-895-0653

File Number: 240429
Project #: MCM-CCR-CA-20240902
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
		Date	Time		H_2O	VSMOW		
1	MCM-INW-01	2024-09-05	11:46	172515	X	369.4	0.3	1 x 60mL P.Bottle
2	MCM-MCM-06	2024-09-05	15:38	172516	X	36.6	1.0	1 x 60mL P.Bottle
3	MCM-PT-01	2024-09-05	9:25	172517	X	5.4	0.2	1 x 60mL P.Bottle
4	MCM-PT-02	2024-09-05	14:17	172518	X	3.6	0.2	1 x 60mL P.Bottle
5	MCM-PT-03	2024-09-05	14:22	172519	X	29.2	0.3	1 x 60mL P.Bottle
6	MCM-DR-01	2024-09-05	11:39	172520	X	7.4	0.3	1 x 60mL P.Bottle
7	MCM-DR-02	2024-09-05	15:54	172521	X	6.6	0.1	1 x 60mL P.Bottle
8	MCM-DR-03	2024-09-05	9:22	172522	X	1053.5	4.1	1 x 60mL P.Bottle
9	MCM-AP1-FD-01	2024-09-05		172523	X	11.3	0.4	1 x 60mL P.Bottle

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).

Standard Used:
IT2-12E / IT2-13D / IT2-14C/ IT2-15B/IT2-18A Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)

Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

Orfan S-Stash

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3, Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required: ASAP

Service Requested: *(regular)* ☐ *(Rush)* ☐

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus 2-Week Sampling September 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL __X__ FAX _____ BOTH _____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: kevin.stephenson@resoluteenv.com
EMAIL 3: Kathryn.Farris@arcadis.com

ANALYSIS REQUEST

PLEASE INDICATE FILTERED, PRESERVED OR BOTH <----- **(F, P, F/P)**

SUBMISSION #:

ENTERED BY:

DATE/TIME ENTERED:

BIN #:

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX															
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT	NUMBER OF CONTAINERS	Deuterium									COMMENTS	LAB ID
2024-09-05	1146		X	X			MCM-INW-01	1	X										
2024-09-05	1538		X	X			MCM-MCM-06	1	X										
2024-09-05	0925		X	X			MCM-PT-01	1	X										
2024-09-05	1417		X	X			MCM-PT-02	1	X										
2024-09-05	1422		X	X			MCM-PT-03	1	X										
2024-09-05	1139		X	X			MCM-DR-01	1	X										
2024-09-05	1554		X	X			MCM-DR-02	1	X										
2024-09-05	0927		X	X			MCM-DR-03	1	X										
2024-09-05	—		X	X			MCM-AP1-FD-01	1	X										

SPECIAL INSTRUCTIONS/COMMENTS

Task Code: MCM-CCR-CA-20240902

THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)

Are any samples taken from a regulated DW System? Yes ___ No X

If yes, an authorized drinking water COC MUST be used for this submission.
Is the water sampled intended to be potable for human consumption? Yes ___ No X

SAMPLE CONDITION

__ FROZEN
__ COLD
__ COOLING INITIATED
__ AMBIENT

Observations

SAMPLED BY: Kevin Stephenson, Natalie Piparo	DATE & TIME	RECEIVED BY:	DATE & TIME
RELINQUISHED BY: via FedEx	DATE & TIME 9/6/24 @ 0904	RECEIVED AT LAB BY:	DATE & TIME 2024-09-10

1. TAT may vary dependent on complexity of analysis and lab workload at time of submission. Please contact the lab to confirm TATs.

2. Any known or suspected hazards relating to a sample must be noted on the chain of custody in comments section.

Plant McManus Performance Monitoring Sampling Week 2			
Task Code: MCM-CCR-CA-20240902			
Location Code/Label	**Sample Code**	**Matrix Code**	**Deuterium[2] (IRMS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X
MCM-PT-01	MCM-PT-01-WG-	WG	X
MCM-PT-02	MCM-PT-02-WG-	WG	X
MCM-PT-03	MCM-PT-03-WG-	WG	X
MCM-DR-01	MCM-DR-01-WG-	WG	X
MCM-DR-02	MCM-DR-02-WG-	WG	X
MCM-DR-03	MCM-DR-03-WG-	WG	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	
Extra 1			X[2]
Extra 2			

[2]Deuterium samples to be analyzed by Isotope Tracer Technologies Inc.

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company

IT^2 FILE # 240431

2024-11-08

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3,
Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

Reported: 2024-11-08

FedEx: 279436261226

ISOTOPE TRACER TECHNOLOGIES INC

Client: Southern Company
Address: 241 Ralph McGill Blvd NE
Atlanta, GA 30308
Att.: Kristen Jurinko
E-mail: knjurink@southernco.com
E-mail: kevin.stephenson@resoluteenv.com
E-mail: Kathryn.Farris@arcadis.com
E-mail: 4e97155d.arcadis.com@amer.teams.ms
Phone: (404) 506-7116

File Number: **240431**
Project #:
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
		Date	Time		H_2O	VSMOW		
1	MCM-INW-01	2024-09-12	12:10	172530	X	192.6	1.0	1x50mL Falcon Tube
2	MCM-MCM-06	2024-09-12	10:12	172531	X	5.3	0.3	1x50mL Falcon Tube
3	MCM-PT-01	2024-09-12	11:57	172532	X	8.8	0.4	1x50mL Falcon Tube
4	MCM-PT-02	2024-09-12	14:31	172533	X	7.7	0.2	1x50mL Falcon Tube
5	MCM-PT-03	2024-09-12	13:50	172534	X	42.3	0.4	1x50mL Falcon Tube
6	MCM-DR-01	2024-09-12	13:24	172535	X	9.8	0.5	1x50mL Falcon Tube
7	MCM-DR-02	2024-09-12	15:08	172536	X	2.4	0.2	1x50mL Falcon Tube
8	MCM-DR-03	2024-09-12	10:47	172537	X	564.7	8.7	1x50mL Falcon Tube
9	MCM-AP1-FD-01	2024-09-12	\	172538	X	3.6	0.2	1x50mL Falcon Tube

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).

Standard Used:
IT2-12E / IT2-13D / IT2-14C/ IT2-15B/IT2-18A Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)

Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

Orfan S-Stash

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
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Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required: ASAP

Service Requested: *(regular)* ☐ *(Rush)* ☐

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus 2-Week Sampling September 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL __X__ FAX _____ BOTH _____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: kevin.stephenson@resoluteenv.com
EMAIL 3: Kathryn.Farris@arcadis.com

ANALYSIS REQUEST

PLEASE INDICATE FILTERED, PRESERVED OR BOTH <----- **(F, P, F/P)**

SUBMISSION #:

ENTERED BY:

DATE/TIME ENTERED:

BIN #:

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX															
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT	NUMBER OF CONTAINERS	Deuterium									COMMENTS	LAB ID
2024-09-05	1146		X	X			MCM-INW-01	1	X										
2024-09-05	1538		X	X			MCM-MCM-06	1	X										
2024-09-05	0925		X	X			MCM-PT-01	1	X										
2024-09-05	1417		X	X			MCM-PT-02	1	X										
2024-09-05	1422		X	X			MCM-PT-03	1	X										
2024-09-05	1139		X	X			MCM-DR-01	1	X										
2024-09-05	1554		X	X			MCM-DR-02	1	X										
2024-09-05	0927		X	X			MCM-DR-03	1	X										
2024-09-05	—		X	X			MCM-AP1-FD-01	1	X										

SPECIAL INSTRUCTIONS/COMMENTS

Task Code: MCM-CCR-CA-20240902

THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)

Are any samples taken from a regulated DW System? Yes ___ No X

If yes, an authorized drinking water COC MUST be used for this submission.
Is the water sampled intended to be potable for human consumption? Yes ___ No X

SAMPLE CONDITION

__ FROZEN
__ COLD
__ COOLING INITIATED
__ AMBIENT

Observations

SAMPLED BY: Kevin Stephenson, Natalie Piparo	DATE & TIME	RECEIVED BY:	DATE & TIME
RELINQUISHED BY: via FedEx	DATE & TIME 9/6/24 @ 0904	RECEIVED AT LAB BY:	DATE & TIME 2024-09-10

1. TAT may vary dependent on complexity of analysis and lab workload at time of submission. Please contact the lab to confirm TATs.

2. Any known or suspected hazards relating to a sample must be noted on the chain of custody in comments section.

Plant McManus Performance Monitoring Sampling Week 2			
Task Code: MCM-CCR-CA-20240902			
Location Code/Label	**Sample Code**	**Matrix Code**	**Deuterium[2] (IRMS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X
MCM-PT-01	MCM-PT-01-WG-	WG	X
MCM-PT-02	MCM-PT-02-WG-	WG	X
MCM-PT-03	MCM-PT-03-WG-	WG	X
MCM-DR-01	MCM-DR-01-WG-	WG	X
MCM-DR-02	MCM-DR-02-WG-	WG	X
MCM-DR-03	MCM-DR-03-WG-	WG	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	
Extra 1			X[2]
Extra 2			

[2]Deuterium samples to be analyzed by Isotope Tracer Technologies Inc.

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company

IT^2 FILE # 240439

2024-11-08

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
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Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

Reported: 2024-11-08

FedEx: 279646510490

ISOTOPE TRACER TECHNOLOGIES INC

Client: Southern Company
Address: 241 Ralph McGill Blvd NE
Atlanta, GA 30308
Att.: Kristen Jurinko
E-mail: knjurink@southernco.com
E-mail: kevin.stephenson@resoluteenv.com
E-mail: Kathryn.Farris@arcadis.com
Phone: (404) 506-7116

File Number: **240439**
Project #:
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
		Date	Time		H_2O	VSMOW		
1	MCM-INW-01	2024-09-17	12:22	172680	X	124.7	0.9	1X50mL falcon tube
2	MCM-MCM-06	2024-09-17	11:56	172681	X	3.9	0.5	1X50mL falcon tube
3	MCM-PT-01	2024-09-17	10:02	172682	X	6.8	0.3	1X50mL falcon tube
4	MCM-PT-02	2024-09-17	15:37	172683	X	5.0	0.3	1X50mL falcon tube
5	MCM-PT-03	2024-09-17	15:50	172684	X	13.8	0.3	1X50mL falcon tube
6	MCM-DR-01	2024-09-18	11:07	172685	X	7.5	0.3	1X50mL falcon tube
7	MCM-DR-02	2024-09-18	9:58	172686	X	6.4	0.2	1X50mL falcon tube
8	MCM-DR-03	2024-09-17	10:35	172687	X	421.1	0.5	1X50mL falcon tube
9	MCM-AP1-FD-01	2024-09-17	\	172688	X	0.7	0.2	1X50mL falcon tube

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).

Standard Used:
IT2-12E / IT2-13D / IT2-14C/ IT2-15B/IT2-18A Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)

Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

Orfan S-Stash

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3, Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required	Service Requested	
	(regular)	
ASAP	*(Rush)*	

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus 4-Week Sampling September 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL _X_ FAX _____ BOTH _____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: kevin.stephenson@resoluteenv.com
EMAIL 3: Kathryn.Farris@arcadis.com

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX				ANALYSIS REQUEST										PLEASE INDICATE FILTERED, PRESERVED OR BOTH <----- (F, P, F/P)	
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT	NUMBER OF CONTAINERS	Deuterium									COMMENTS	LAB ID
2024-09-17	1222		X	X			MCM-INW-01	1	X										
2024-09-17	1156		X	X			MCM-MCM-06	1	X										
2024-09-17	1002		X	X			MCM-PT-01	1	X										
2024-09-17	1537		X	X			MCM-PT-02	1	X										
2024-09-17	1550		X	X			MCM-PT-03	1	X										
2024-09-18	1107		X	X			MCM-DR-01	1	X										
2024-09-18	0954		X	X			MCM-DR-02	1	X										
2024-09-17	1035		X	X			MCM-DR-03	1	X										
2024-09-17	—		X	X			MCM-AP1-FD-01	1	X										

SUBMISSION #:
ENTERED BY:
DATE/TIME ENTERED:
BIN #:

SPECIAL INSTRUCTIONS/COMMENTS

Task Code: MCM-CCR-CA-20240916

THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)

Are any samples taken from a regulated DW System? Yes ___ No ___

If yes, an authorized drinking water COC MUST be used for this submission.
Is the water sampled intended to be potable for human consumption? Yes ___ No

SAMPLE CONDITION

___ FROZEN
___ COLD
___ COOLING INITIATED
___ AMBIENT

SAMPLED BY: Jay Siewert, Natalie Piparo, William Laaker, Kevin Step	DATE & TIME	RECEIVED BY:	DATE & TIME
RELINQUISHED BY:	DATE & TIME 9/18/24 1420	RECEIVED AT LAB BY:	DATE & TIME 9/20/2024 12:24

Observations

1. TAT may vary dependent on complexity of analysis and lab workload at time of submission. Please contact the lab to confirm TATs.

2. Any known or suspected hazards relating to a sample must be noted on the chain of custody in comments section.

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company

IT^2 FILE # 240463

2024-12-06

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3,
Waterloo, ON, N2V 1K4
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Website: www.it2isotopes.com

Reported: 2024-12-06

FedEx: 280234596875

Client: Southern Company
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Atlanta, GA 30308
Att.: Kristen Jurinko
E-mail: knjurink@southernco.com
E-mail: kevin.stephenson@resoluteenv.com
E-mail: Kathryn.Farris@arcadis.com
Phone: (404) 506-7116

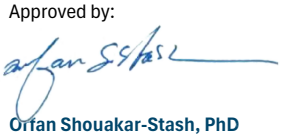
File Number: 240463
Project #: Plant McManus Week 6 Sampling October 2024
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
		Date	Time		H_2O	VSMOW		
1	MCM-INW-01	2024-10-02	10:16	173238	X	53.0	0.4	1x50mL Falcon Tube
2	MCM-MCM-06	2024-10-01	11:10	173239	X	8.9	0.1	1x50mL Falcon Tube
3	MCM-PT-01	2024-10-01	12:58	173240	X	6.1	0.4	1x50mL Falcon Tube
4	MCM-PT-02	2024-10-01	10:12	173241	X	4.8	0.3	1x50mL Falcon Tube
5	MCM-PT-03	2024-10-01	13:36	173242	X	14.7	0.5	1x50mL Falcon Tube
6	MCM-DR-01	2024-10-01	16:43	173243	X	6.4	0.4	1x50mL Falcon Tube
7	MCM-DR-02	2024-10-01	16:37	173244	X	6.0	0.2	1x50mL Falcon Tube
8	MCM-DR-03	2024-10-01	11:47	173245	X	170.4	0.5	1x50mL Falcon Tube
9	MCM-AP1-FD-01	2024-10-01		173246	X	8.7	0.4	1x50mL Falcon Tube

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).
Standard Used:
IT2-12E / IT2-13D / IT2-14C/ IT2-15B Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)
Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:



Orfan Shouakar-Stash, PhD
Director
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Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required	Service Requested	
	(regular)	
ASAP	*(Rush)*	

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus 6 Week Sampling October 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL __X__ FAX _____ BOTH _____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: kevin.stephenson@resoluteenv.com
EMAIL 3: Kathryn.Farris@arcadis.com

ANALYSIS REQUEST

PLEASE INDICATE FILTERED, PRESERVED OR BOTH <----- **(F, P, F/P)**

SUBMISSION #:

ENTERED BY:

DATE/TIME ENTERED:

BIN #:

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX														
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT	NUMBER OF CONTAINERS	Deuterium								COMMENTS	LAB ID
2024/10/02	1016		X	X			MCM-INW-01	1	X									
2024/10/01	1110		X	X			MCM-MCM-06	1	X									
2024/10/01	1254		X	X			MCM-PT-01	1	X									
2024/10/02	1012		X	X			MCM-PT-02	1	X									
2024/10/01	1336		X	X			MCM-PT-03	1	X									
2024/10/01	1643		X	X			MCM-DR-01	1	X									
2024/10/01	1637		X	X			MCM-DR-02	1	X									
2024/10/01	1147		X	X			MCM-DR-03	1	X									
2024/10/01	—		X	X			MCM-AP1-FD-01	1	X									

SPECIAL INSTRUCTIONS/COMMENTS

Task Code: MCM-CCR-CA-20240930

THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)

Are any samples taken from a regulated DW System? Yes ___ No ___

If yes, an authorized drinking water COC MUST be used for this submission.
Is the water sampled intended to be potable for human consumption? Yes ___ No ___

SAMPLE CONDITION

___ FROZEN
___ COLD
___ COOLING INITIATED
___ AMBIENT

SAMPLED BY: Kevin Stephenson, Natalie Piparo, Jay Siewert	DATE & TIME	RECEIVED BY:	DATE & TIME
RELINQUISHED BY:	DATE & TIME 10/2/24 13:00	RECEIVED AT LAB BY:	DATE & TIME 10/17/24

Observations

1. TAT may vary dependent on complexity of analysis and lab workload at time of submission. Please contact the lab to confirm TATs.

2. Any known or suspected hazards relating to a sample must be noted on the chain of custody in comments section.

Plant McManus Performance Monitoring Sampling Week 6			
Task Code: MCM-CCR-CA-20240930			
Location Code/Label	**Sample Code**	**Matrix Code**	**Deuterium[2] (IRMS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X
MCM-PT-01	MCM-PT-01-WG-	WG	X
MCM-PT-02	MCM-PT-02-WG-	WG	X
MCM-PT-03	MCM-PT-03-WG-	WG	X
MCM-DR-01	MCM-DR-01-WG-	WG	X
MCM-DR-02	MCM-DR-02-WG-	WG	X
MCM-DR-03	MCM-DR-03-WG-	WG	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	
Extra 1			X

[2]Deuterium samples to be analyzed by Isotope Tracer Technologies Inc.

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company

IT^2 FILE # 240468

2024-12-06

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
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Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

Reported: 2024-12-06

FedEx: 280711763529

ISOTOPE TRACER TECHNOLOGIES INC

Client: Southern Company
Address: 241 Ralph McGill Blvd NE
Atlanta, GA 30308
Att.: Kristen Jurinko
E-mail: knjurink@southernco.com
E-mail: Kathryn.Farris@arcadis.com
Phone: (404)506-7116

File Number: 240468
Project #: Plant McManus 8-Week Sampling October 2024
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
		Date	Time		H_2O	VSMOW		
1	MCM-INW-01	2024-10-15	14:11	173312	X	40.1	0.2	1x50mL falcon tube
2	MCM-MCM-06	2024-10-15	11:41	173313	X	6.6	0.4	1x50mL falcon tube
3	MCM-PT-01	2024-10-15	9:55	173314	X	4.8	0.3	1x50mL falcon tube
4	MCM-PT-02	2024-10-15	16:01	173315	X	3.6	0.2	1x50mL falcon tube
5	MCM-PT-03	2024-10-15	16:46	173316	X	9.2	0.5	1x50mL falcon tube
6	MCM-DR-01	2024-10-15	14:18	173317	X	5.7	0.4	1x50mL falcon tube
7	MCM-DR-02	2024-10-16	10:16	173318	X	5.8	0.4	1x50mL falcon tube
8	MCM-DR-03	2024-10-15	10:31	173319	X	84.5	0.3	1x50mL falcon tube
9	MCM-AP1-FD-01	2024-10-15		173320	X	80.8	0.4	1x50mL falcon tube

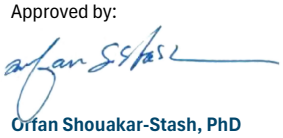
^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).

Standard Used:
IT2-12E / IT2-13D / IT2-14C Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)

Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:



Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3, Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required	Service Requested	
	(regular)	
ASAP	*(Rush)*	

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus 8-Week Sampling October 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL _X_ FAX _____ BOTH _____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: kevin.stephenson@resoluteenv.com
EMAIL 3: Kathryn.Farris@arcadis.com

ANALYSIS REQUEST

PLEASE INDICATE FILTERED, PRESERVED OR BOTH
<----- (F, P, F/P)

SUBMISSION #:

ENTERED BY:

DATE/TIME ENTERED:

BIN #:

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX																
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT	NUMBER OF CONTAINERS	Deuterium										COMMENTS	LAB ID
2024-10-15	1411		X	X			MCM-INW-01	1	X											
2024-10-15	1141		X	X			MCM-MCM-06	1	X											
2024-10-15	0955		X	X			MCM-PT-01	1	X											
2024-10-15	1601		X	X			MCM-PT-02	1	X											
2024-10-15	1646		X	X			MCM-PT-03	1	X											
2024-10-15	1418		X	X			MCM-DR-01	1	X											
2024-10-16	1016		X	X			MCM-DR-02	1	X											
2024-10-15	1031		X	X			MCM-DR-03	1	X											
2024-10-15	——		X	X			MCM-AP1-FD-01	1	X											

SPECIAL INSTRUCTIONS/COMMENTS

Task Code: MCM-CCR-CA-20241014

THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)

Are any samples taken from a regulated DW System? Yes ___ No ___

If yes, an authorized drinking water COC MUST be used for this submission.
Is the water sampled intended to be potable for human consumption? Yes ___ No

SAMPLE CONDITION

__ FROZEN
__ COLD
__ COOLING INITIATED
__ AMBIENT

SAMPLED BY: Jay Siewert, Natalie Piparo, William Laaker, Kevin Step	DATE & TIME	RECEIVED BY:	DATE & TIME
RELINQUISHED BY:	DATE & TIME 10/16/24 1200	RECEIVED AT LAB BY:	DATE & TIME 10/22/24 9:39am

Observations

1. TAT may vary dependent on complexity of analysis and lab workload at time of submission. Please contact the lab to confirm TATs.

2. Any known or suspected hazards relating to a sample must be noted on the chain of custody in comments section.

Plant McManus Performance Monitoring Sampling Week 8			
Task Code: MCM-CCR-CA-20241014			
Location Code/Label	**Sample Code**	**Matrix Code**	**Deuterium[2] (IRMS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X
MCM-PT-01	MCM-PT-01-WG-	WG	X
MCM-PT-02	MCM-PT-02-WG-	WG	X
MCM-PT-03	MCM-PT-03-WG-	WG	X
MCM-DR-01	MCM-DR-01-WG-	WG	X
MCM-DR-02	MCM-DR-02-WG-	WG	X
MCM-DR-03	MCM-DR-03-WG-	WG	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	
Extra 1			X

[2]Deuterium samples to be analyzed by Isotope Tracer Technologies Inc.

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company

IT^2 FILE # 240499

2024-12-06

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3,
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Tel: 519-886-5555 | Fax: 519-886-5575
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Website: www.it2isotopes.com

Reported: 2024-12-06

FedEx: 779272998803

Client: Southern Company
Address: 241 Ralph McGill Blvd NE
Atlanta, GA 30308
Att.: Kristen Jurinko
E-mail: knjurink@southernco.com
E-mail: natalie.piparo@resoluteenv.com
E-mail: Kathryn.Farris@arcadis.com
Phone: (404) 506-7116

File Number: **240499**
Project #: **Plant McManus Week 10 Sampling**
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
		Date	Time		H_2O	VSMOW		
1	MCM-INW-01	2024-10-29	11:52	174011	X	30.9	0.2	1x60mL
2	MCM-MCM-06	2024-10-29	9:46	174012	X	7.2	0.4	1x60mL
3	MCM-PT-01	2024-10-29	15:36	174013	X	5.6	0.3	1x60mL
4	MCM-PT-02	2024-10-29	14:08	174014	X	5.3	0.2	1x60mL
5	MCM-PT-03	2024-10-29	14:33	174015	X	7.1	0.4	1x60mL
6	MCM-DR-01	2024-10-29	11:21	174016	X	6.3	0.4	1x60mL
7	MCM-DR-02	2024-10-29	16:12	174017	X	6.5	0.4	1x60mL
8	MCM-DR-03	2024-10-29	9:35	174018	X	55.6	0.4	1x60mL
9	MCM-AP1-FD-01	2024-10-29		174019	X	4.9	0.2	1x60mL

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).
Standard Used:
IT2-12E / IT2-13D / IT2-14C/ IT2-15B Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)
Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3, Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
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ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required	Service Requested	
	(regular)	
ASAP	*(Rush)*	

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus 10 Week Sampling October 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL _X_ FAX ____ BOTH ____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: natalie.piparo@resoluteenv.com EMAIL 3: Kathryn.Farris@arcadis.com

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX			SAMPLE DESCRIPTION TO APPEAR ON REPORT	NUMBER OF CONTAINERS	ANALYSIS REQUEST: Deuterium											PLEASE INDICATE FILTERED, PRESERVED OR BOTH <----- (F, P, F/P)	
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER														SUBMISSION #:	
2024-10-29	1152		X	X			MCM-INW-01	1	X											ENTERED BY:	
2024-10-29	0946		X	X			MCM-MCM-06	1	X											DATE/TIME ENTERED:	
2024-10-29	1536		X	X			MCM-PT-01	1	X											BIN #:	
2024-10-29	1408		X	X			MCM-PT-02	1	X											COMMENTS	LAB ID
2024-10-29	1433		X	X			MCM-PT-03	1	X												
2024-10-29	1121		X	X			MCM-DR-01	1	X												
2024-10-29	1612		X	X			MCM-DR-02	1	X												
2024-10-29	0935		X	X			MCM-DR-03	1	X												
2024-10-29	——		X	X			MCM-AP1-FD-01	1	X												

SPECIAL INSTRUCTIONS/COMMENTS

Task Code: MCM-CCR-CA-20241028

THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)

Are any samples taken from a regulated DW System? Yes ___ No ___

If yes, an authorized drinking water COC MUST be used for this submission.
Is the water sampled intended to be potable for human consumption? Yes ___ No

SAMPLE CONDITION

__ FROZEN
__ COLD
__ COOLING INITIATED
__ AMBIENT

Observations

SAMPLED BY: Natalie Piparo, Jay Siewert	DATE & TIME	RECEIVED BY:	DATE & TIME
RELINQUISHED BY: [signature]	DATE & TIME 10/30/24 0945	RECEIVED AT LAB BY: [signature]	DATE & TIME 11/06/24

1. TAT may vary dependent on complexity of analysis and lab workload at time of submission. Please contact the lab to confirm TATs.

2. Any known or suspected hazards relating to a sample must be noted on the chain of custody in comments section.

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company

IT^2 FILE # 240517

2024-12-06

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3,
Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

Reported: 2024-12-06

FedEx: 791523715618

Client: Southern Company
Address: 241 Ralph McGill Blvd NE
Atlanta, GA 30308
Att.: Kristen Jurinko
E-mail: knjurink@southernco.com
E-mail: natalie.piparo@resoluteenv.com
E-mail: Kathryn.Farries@arcadis.com
Phone: 404-506-7116

File Number: 240517
Project #:
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
		Date	Time		H_2O	VSMOW		
1	MCM-1NW-01	2024-11-12	15:15	174281	X	19.0	0.4	1X50mL falcon tube
2	MCM-MCM-06	2024-11-12	10:26	174282	X	8.6	0.1	1X50mL falcon tube
3	MCM-PT-01	2024-11-12	12:54	174283	X	6.5	0.1	1X50mL falcon tube
4	MCM-PT-02	2024-11-12	9:47	174284	X	4.4	0.4	1X50mL falcon tube
5	MCM-PT-03	2024-11-12	12:30	174285	X	6.5	0.5	1X50mL falcon tube
6	MCM-DR-01	2024-11-12	15:35	174286	X	7.1	0.5	1X50mL falcon tube
7	MCM-DR-02	2024-11-12	9:58	174287	X	7.4	0.1	1X50mL falcon tube
8	MCM-DR-03	2024-11-12	10:29	174288	X	41.3	0.3	1X50mL falcon tube
9	MCM-AP1-FD-01	2024-11-12			X	10.4	0.5	1X50mL falcon tube

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).

Standard Used:
IT2-12E / IT2-13D / IT2-14C Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)

Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3, Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
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Website: www.it2isotopes.com

ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required	Service Requested	
	(regular)	
ASAP	*(Rush)*	

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus 12-Week Sampling November 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL __X__ FAX _____ BOTH _____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: natalie.piparo@resoluteenv.com EMAIL 3: Kathryn.Farris@arcadis.com

ANALYSIS REQUEST

PLEASE INDICATE FILTERED, PRESERVED OR BOTH <----- **(F, P, F/P)**

SUBMISSION #:

ENTERED BY:

DATE/TIME ENTERED:

BIN #:

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX				NUMBER OF CONTAINERS	Deuterium										
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT											COMMENTS	LAB ID
2024-11-12	1515		X	X			MCM-INW-01	1	X										
2024-11-12	1026		X	X			MCM-MCM-06	1	X										
2024-11-12	1254		X	X			MCM-PT-01	1	X										
2024-11-13	0947		X	X			MCM-PT-02	1	X										
2024-11-12	1230		X	X			MCM-PT-03	1	X										
2024-11-12	1535		X	X			MCM-DR-01	1	X										
2024-11-13	0958		X	X			MCM-DR-02	1	X										
2024-11-12	1029		X	X			MCM-DR-03	1	X										
2024-11-12	—		X	X			MCM-AP1-FD-01	1	X										

SPECIAL INSTRUCTIONS/COMMENTS

Task Code: MCM-CCR-CA-20241111

THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)

Are any samples taken from a regulated DW System? Yes ___ No ___

If yes, an authorized drinking water COC MUST be used for this submission.

Is the water sampled intended to be potable for human consumption? Yes ___ No

SAMPLE CONDITION

___ FROZEN
___ COLD
___ COOLING INITIATED
___ AMBIENT

Observations

SAMPLED BY: Will Lacker, ~~Natalie Piparo~~ Jay Stewart	DATE & TIME 11/13/24 1330	RECEIVED BY: Fedex	DATE & TIME 11/13/24 1330
RELINQUISHED BY:	DATE & TIME	RECEIVED AT LAB BY:	DATE & TIME 11/18/24

1. TAT may vary dependent on complexity of analysis and lab workload at time of submission. Please contact the lab to confirm TATs.

2. Any known or suspected hazards relating to a sample must be noted on the chain of custody in comments section.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 9/16/2024 4:39:46 PM

JOB DESCRIPTION

Plant McManus - Arsenic Speciation

JOB NUMBER

680-255318-1

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
9/16/2024 4:39:46 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Sample Summary

Client: Southern Company
Job ID: 680-255318-1
Project/Site: Plant McManus - Arsenic Speciation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-255318-1	DR-03	Water	08/27/24 10:22	08/29/24 11:59
680-255318-2	INW-01	Water	08/27/24 12:12	08/29/24 11:59
680-255318-3	PT-03	Water	08/27/24 15:10	08/29/24 11:59
680-255318-4	DR-02	Water	08/27/24 16:30	08/29/24 11:59
680-255318-5	FD-01	Water	08/27/24 00:00	08/29/24 11:59
680-255318-6	PT-02	Water	08/28/24 10:12	08/29/24 11:59
680-255318-7	DR-01	Water	08/28/24 11:46	08/29/24 11:59
680-255318-8	PT-01	Water	08/28/24 14:10	08/29/24 11:59
680-255318-9	MCM-06	Water	08/28/24 15:34	08/29/24 11:59

Job Narrative
680-255318-1

Receipt
The samples were received on 8/29/2024 11:59 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 2.4°C.

Subcontract Work
Method Metals Speciation: This method was subcontracted to Brooks Applied Labs LLC. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

BROOKS APPLIED LABS
13751 Lake City Way NE, Ste 108, Seattle, WA 98125 • USA • T:206-632-6206 • info@brooksapplied.com

September 16, 2024

Eurofins Savannah
ATTN: David Fuller
5102 LaRoche Avenue
Savannah, GA 31404
david.fuller@et.eurofinsus.com

RE: Project EUR-SV2201 Client Project: Job#680-255318-1

Dear David Fuller,

On August 30, 2024, Brooks Applied Labs (BAL) received nine (9) water samples at a temperature of 1.4°C. The samples were logged-in for the analyses of arsenic speciation [As(III), As(V), DMA, MMA, and unknown As species] according to the chain-of-custody form. All samples were received and stored according to BAL SOPs and EPA methodology.

All samples were field filtered.

Arsenic Speciation Quantitation by IC-ICP-CRC-MS
Arsenic speciation was performed by ion chromatography inductively coupled plasma collision reaction cell mass spectrometry (IC-ICP-CRC-MS). Arsenic species are first chromatographically separated on an ion exchange column and then quantified using inductively coupled plasma collision reaction cell mass spectrometry (ICP-CRC-MS). For more information on this determinative technique, please visit the Interference Reduction Technology section on our website.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (**N/C**).

It should be noted that all Brooks Applied Labs, LLC methods, standard operating procedures, inventions, ideas, processes, improvements, designs, and techniques included or referred to therein, must be considered and treated as Proprietary Information, protected by the Washington State Trade Secret Act, RCW 19.108 et seq., and other laws. All Proprietary Information, written or implied, will not be distributed, copied, or altered in any fashion without prior written consent from Brooks Applied Labs, LLC. All Proprietary Information (including originals, copies, summaries, or other reproductions thereof) shall remain the property of Brooks Applied Labs, LLC at all times and must be returned upon demand. Furthermore, products presented in this document may be protected by Federal Patent laws and infringement will be subject to prosecution in accordance with Title 35 US Code 271.

The results were not method blank corrected, as described in the calculations section of the relevant BAL SOP(s), and were evaluated using reporting limits adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

All data was reported without further qualification and all other associated quality control sample results met the acceptance criteria.

BAL verifies that the reported results of all analyses for which the laboratory is accredited meet the requirements of the accrediting body, unless otherwise noted in the report narrative. For more information regarding accreditations please see the *Report Information* and *Batch Summary* pages. This report must be used in its entirety for interpretation of results.

Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Amy Goodall
Project Manager
Brooks Applied Labs
amy@brooksapplied.com

Report Information

General Disclaimers

Test results are based solely upon the sample submitted to Brooks Applied Labs in the condition it was received . This report shall not be reproduced or copied, except in full, without written approval of the laboratory. Brooks Applied Labs is not responsible for the consequences arising from the use of a partial report.

Laboratory Accreditation

BAL maintains accreditation with various state and national agencies for select test methods. For a current list of BAL accreditations, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. The reported analyte/matrix/method combination shall be considered outside BAL's scopes of accreditation unless otherwise identified as ISO, TNI, or ISO,TNI in the tables. It is the responsibility of the client to verify whether a specific accreditation is required for the intended data use.

ISO: ISO/IEC 17025:2017 accredited test method. Issued by ANSI National Accreditation Board (ANAB), #ADE-1447.02

TNI: NELAP accredited test method. Issued by the State of Florida Department of Health, #E87982.

ISO,TNI: Test method is accredited under both the ISO/IEC 17025:2017 and NELAP accreditations referenced above.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	**MS**	matrix spike
BAL	Brooks Applied Labs	**MSD**	matrix spike duplicate
BLK	method blank	**ND**	non-detect
BS	blank spike	**NR**	non-reportable
CAL	calibration standard	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
CCV	continuing calibration verification	**REC**	percent recovery
COC	chain of custody record	**RPD**	relative percent difference
D	dissolved fraction	**SCV**	secondary calibration verification
DUP	duplicate	**SOP**	standard operating procedure
IBL	instrument blank	**SRM**	reference material
ICV	initial calibration verification	**T**	total fraction
MDL	method detection limit	**TR**	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

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Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
DR-03 (680-255318-1)	2408492-01	Water-D	Sample	08/27/2024	08/30/2024
INW-01 (680-255318-2)	2408492-02	Water-D	Sample	08/27/2024	08/30/2024
PT-03 (680-255318-3)	2408492-03	Water-D	Sample	08/27/2024	08/30/2024
DR-02 (680-255318-4)	2408492-04	Water-D	Sample	08/27/2024	08/30/2024
FD-01 (680-255318-5)	2408492-05	Water-D	Sample	08/27/2024	08/30/2024
PT-02 (680-255318-6)	2408492-06	Water-D	Sample	08/28/2024	08/30/2024
DR-01 (680-255318-7)	2408492-07	Water-D	Sample	08/28/2024	08/30/2024
PT-01 (680-255318-8)	2408492-08	Water-D	Sample	08/28/2024	08/30/2024
MCM-06 (680-255318-9)	2408492-09	Water-D	Sample	08/28/2024	08/30/2024

Batch Summary

Analyte	Lab Matrix	Method	Accred.	Prepared	Analyzed	Batch	Sequence
As(III)	Water	SOP BAL-4100	ISO,TNI	09/09/24	09/10/24	B242198	S240865
As(V)	Water	SOP BAL-4100	ISO,TNI	09/09/24	09/10/24	B242198	S240865
DMAs	Water	SOP BAL-4100	ISO	09/09/24	09/10/24	B242198	S240865
MMAs	Water	SOP BAL-4100	ISO	09/09/24	09/10/24	B242198	S240865
Unk As Sp	Water	SOP BAL-4100		09/09/24	09/10/24	B242198	S240865

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Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
DR-03 (680-255318-1)										
2408492-01	As(III)	Water-D	D	0.289	J	0.200	1.05	µg/L	B242198	S240865
2408492-01	As(V)	Water-D	D	3.77		0.500	1.05	µg/L	B242198	S240865
2408492-01	DMAs	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865
2408492-01	MMAs	Water-D	D	≤ 0.200	U	0.200	1.05	µg/L	B242198	S240865
2408492-01	Unk As Sp	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865
INW-01 (680-255318-2)										
2408492-02	As(III)	Water-D	D	≤ 0.200	U	0.200	1.05	µg/L	B242198	S240865
2408492-02	As(V)	Water-D	D	≤ 0.500	U	0.500	1.05	µg/L	B242198	S240865
2408492-02	DMAs	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865
2408492-02	MMAs	Water-D	D	≤ 0.200	U	0.200	1.05	µg/L	B242198	S240865
2408492-02	Unk As Sp	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865
PT-03 (680-255318-3)										
2408492-03	As(III)	Water-D	D	3.59		0.200	1.05	µg/L	B242198	S240865
2408492-03	As(V)	Water-D	D	3.48		0.500	1.05	µg/L	B242198	S240865
2408492-03	DMAs	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865
2408492-03	MMAs	Water-D	D	≤ 0.200	U	0.200	1.05	µg/L	B242198	S240865
2408492-03	Unk As Sp	Water-D	D	0.441	J	0.250	1.05	µg/L	B242198	S240865
DR-02 (680-255318-4)										
2408492-04	As(III)	Water-D	D	0.658	J	0.200	1.05	µg/L	B242198	S240865
2408492-04	As(V)	Water-D	D	≤ 0.500	U	0.500	1.05	µg/L	B242198	S240865
2408492-04	DMAs	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865
2408492-04	MMAs	Water-D	D	≤ 0.200	U	0.200	1.05	µg/L	B242198	S240865
2408492-04	Unk As Sp	Water-D	D	89.6		0.250	1.05	µg/L	B242198	S240865
FD-01 (680-255318-5)										
2408492-05	As(III)	Water-D	D	0.256	J	0.200	1.05	µg/L	B242198	S240865
2408492-05	As(V)	Water-D	D	3.72		0.500	1.05	µg/L	B242198	S240865
2408492-05	DMAs	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865
2408492-05	MMAs	Water-D	D	≤ 0.200	U	0.200	1.05	µg/L	B242198	S240865
2408492-05	Unk As Sp	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
PT-02 (680-255318-6)										
2408492-06	As(III)	Water-D	D	0.524	J	0.200	1.05	µg/L	B242198	S240865
2408492-06	As(V)	Water-D	D	≤ 0.500	U	0.500	1.05	µg/L	B242198	S240865
2408492-06	DMAs	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865
2408492-06	MMAs	Water-D	D	≤ 0.200	U	0.200	1.05	µg/L	B242198	S240865
2408492-06	Unk As Sp	Water-D	D	9.29		0.250	1.05	µg/L	B242198	S240865
DR-01 (680-255318-7)										
2408492-07	As(III)	Water-D	D	1.54		0.200	1.05	µg/L	B242198	S240865
2408492-07	As(V)	Water-D	D	≤ 0.500	U	0.500	1.05	µg/L	B242198	S240865
2408492-07	DMAs	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865
2408492-07	MMAs	Water-D	D	≤ 0.200	U	0.200	1.05	µg/L	B242198	S240865
2408492-07	Unk As Sp	Water-D	D	57.8		0.250	1.05	µg/L	B242198	S240865
PT-01 (680-255318-8)										
2408492-08	As(III)	Water-D	D	≤ 0.200	U	0.200	1.05	µg/L	B242198	S240865
2408492-08	As(V)	Water-D	D	≤ 0.500	U	0.500	1.05	µg/L	B242198	S240865
2408492-08	DMAs	Water-D	D	≤ 0.250	U	0.250	1.05	µg/L	B242198	S240865
2408492-08	MMAs	Water-D	D	≤ 0.200	U	0.200	1.05	µg/L	B242198	S240865
2408492-08	Unk As Sp	Water-D	D	13.4		0.250	1.05	µg/L	B242198	S240865
MCM-06 (680-255318-9)										
2408492-09	As(III)	Water-D	D	0.920	J	0.800	4.20	µg/L	B242198	S240865
2408492-09	As(V)	Water-D	D	≤ 2.00	U	2.00	4.20	µg/L	B242198	S240865
2408492-09	DMAs	Water-D	D	≤ 1.00	U	1.00	4.20	µg/L	B242198	S240865
2408492-09	MMAs	Water-D	D	≤ 0.800	U	0.800	4.20	µg/L	B242198	S240865
2408492-09	Unk As Sp	Water-D	D	134		1.00	4.20	µg/L	B242198	S240865

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Accuracy & Precision Summary

Batch: B242198
Lab Matrix: Water
Method: SOP BAL-4100

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B242198-BS1	**Blank Spike, (2331029)**						
	As(III)		5.000	5.190	µg/L	104% 75-125	
	As(V)		5.000	4.773	µg/L	95% 75-125	
B242198-BS2	**Blank Spike, (2306015)**						
	DMAs		5.000	5.658	µg/L	113% 75-125	
	MMAs		4.400	4.764	µg/L	108% 75-125	
B242198-DUP2	**Duplicate, (2408492-09)**						
	As(III)	0.920		0.903	µg/L		2% 25
	As(V)	ND		ND	µg/L		N/C 25
	DMAs	ND		ND	µg/L		N/C 25
	MMAs	ND		ND	µg/L		N/C 25
	Unk As Sp	133.5		136.3	µg/L		2% 25
B242198-MS2	**Matrix Spike, (2408492-09)**						
	As(III)	0.920	209.0	221.6	µg/L	106% 75-125	
	As(V)	ND	194.2	216.2	µg/L	111% 75-125	
	DMAs	ND	222.2	241.2	µg/L	109% 75-125	
	MMAs	ND	200.0	218.5	µg/L	109% 75-125	
B242198-MSD2	**Matrix Spike Duplicate, (2408492-09)**						
	As(III)	0.920	209.0	223.9	µg/L	107% 75-125	1% 25
	As(V)	ND	194.2	218.4	µg/L	112% 75-125	1% 25
	DMAs	ND	222.2	243.1	µg/L	109% 75-125	0.8% 25
	MMAs	ND	200.0	221.2	µg/L	111% 75-125	1% 25

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Method Blanks & Reporting Limits

Batch: B242198
Matrix: Water
Method: SOP BAL-4100
Analyte: As(III)

Sample	Result	Units
B242198-BLK1	0.00	µg/L
B242198-BLK2	0.00	µg/L
B242198-BLK3	0.00	µg/L
B242198-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.004
MRL: 0.021

Analyte: As(V)

Sample	Result	Units
B242198-BLK1	-0.0003	µg/L
B242198-BLK2	-0.0005	µg/L
B242198-BLK3	-0.0005	µg/L
B242198-BLK4	0.00007	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.010
MRL: 0.021

Analyte: DMAs

Sample	Result	Units
B242198-BLK1	0.00	µg/L
B242198-BLK2	0.00	µg/L
B242198-BLK3	0.00	µg/L
B242198-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.005
MRL: 0.021

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Method Blanks & Reporting Limits

Analyte: MMAs

Sample	Result	Units
B242198-BLK1	0.00	µg/L
B242198-BLK2	0.00	µg/L
B242198-BLK3	0.00	µg/L
B242198-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.004
MRL: 0.021

Analyte: Unk As Sp

Sample	Result	Units
B242198-BLK1	0.00	µg/L
B242198-BLK2	0.00	µg/L
B242198-BLK3	0.00	µg/L
B242198-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.005
MRL: 0.021

Sample Containers

Lab ID: 2408492-01 **Report Matrix:** Water-D **Collected:** 08/27/2024
Sample: DR-03 (680-255318-1) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492
B	XTRA_VOL	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492

Lab ID: 2408492-02 **Report Matrix:** Water-D **Collected:** 08/27/2024
Sample: INW-01 (680-255318-2) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492
B	XTRA_VOL	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492

Lab ID: 2408492-03 **Report Matrix:** Water-D **Collected:** 08/27/2024
Sample: PT-03 (680-255318-3) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492
B	XTRA_VOL	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492

Lab ID: 2408492-04 **Report Matrix:** Water-D **Collected:** 08/27/2024
Sample: DR-02 (680-255318-4) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492
B	XTRA_VOL	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492

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Sample Containers

Lab ID: 2408492-05 **Report Matrix:** Water-D **Collected:** 08/27/2024
Sample: FD-01 (680-255318-5) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492
B	XTRA_VOL	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492

Lab ID: 2408492-06 **Report Matrix:** Water-D **Collected:** 08/28/2024
Sample: PT-02 (680-255318-6) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492
B	XTRA_VOL	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492

Lab ID: 2408492-07 **Report Matrix:** Water-D **Collected:** 08/28/2024
Sample: DR-01 (680-255318-7) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492
B	XTRA_VOL	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492

Lab ID: 2408492-08 **Report Matrix:** Water-D **Collected:** 08/28/2024
Sample: PT-01 (680-255318-8) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492
B	XTRA_VOL	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492

Project ID: EUR-SV2201
PM: Amy Goodall

Client PM: David Fuller
Client Project: 680-255318-1

Sample Containers

Lab ID: 2408492-09
Sample: MCM-06 (680-255318-9)

Report Matrix: Water-D
Sample Type: Sample

Collected: 08/28/2024
Received: 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492
B	XTRA_VOL	10 mL	24-0060	EDTA (vial)	n/a	n/a	Cooler - 2408492

Shipping Containers

Cooler - 2408492

Received: August 30, 2024 9:48
Tracking No: 6881 2505 6872 via FedEx
Coolant Type: Ice
Temperature: 1.4 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: SCTH-1

Custody seals present? Yes
Custody seals intact? Yes
COC present? Yes

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Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

BAL Report 2408492

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9/16/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-781060.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 1
Company: Brooks Applied Labs LLC		Accreditations Required (See note): State - Georgia		Job #: 680-255318-1
Address: 13751 Lake City Way NE, Suite 108,	Due Date Requested: 9/11/2024	Analysis Requested		Preservation Codes: -
City: Seattle	TAT Requested (days):			
State, Zip: WA, 98125				
Phone:	PO #:			
Email:	WO #:			
Project Name: Plant McManus - Arsenic Speciation	Project #: 68027841			Other:
Site:	SSOW#:			

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)	SUB (Metals Speciation)/ Metals Speciation (Hold)	Total Number of containers	Special Instructions/Note:
			Preservation Code						
DR-03 (680-255318-1)	8/27/24	10:22 Eastern	G	Water			X	2	
INW-01 (680-255318-2)	8/27/24	12:12 Eastern	G	Water			X	2	
PT-03 (680-255318-3)	8/27/24	15:10 Eastern	G	Water			X	2	
DR-02 (680-255318-4)	8/27/24	16:30 Eastern	G	Water			X	2	
FD-01 (680-255318-5)	8/27/24	Eastern	G	Water			X	2	
PT-02 (680-255318-6)	8/28/24	10:12 Eastern	G	Water			X	2	
DR-01 (680-255318-7)	8/28/24	11:46 Eastern	G	Water			X	2	
PT-01 (680-255318-8)	8/28/24	14:10 Eastern	G	Water			X	2	
MCM-06 (680-255318-9)	8/28/24	15:34 Eastern	G	Water			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:

Relinquished by:	Date/Time: 8/29/24 1500	Company	Received by:	Date/Time: 8/30/24 0948	Company BAC
Relinquished by:	Date/Time:	Company	Received by:	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:

BAL Report 2408492

Chain-of-Custody Form

BROOKS APPLIED LABS

Ship samples to:
13751 Lake City Way NE, Suite 108
Seattle, WA 98125

For BAL use only
Received by: [illegible] Date: 08/30/24
Work Order ID: _____ Time: 0948
Project ID: _____

Client: Southwest Companies PO Number: _____ Mailing Address: 1003 Wilkinson Pkwy Suite 320 Woodstock GA 30188
Contact: David Fuller Phone: 470-895-0653
Client Project ID: _____ Email: [illegible] Email Receipt Confirmation? (Yes/No)
Samples Collected By: KMS BAL PM: Amy Goodwill

Requested TAT (business days)
- ☒ 20 (standard)
- ☐ 15*
- ☐ 10*
- ☐ 5*
- ☐ Other ____

*Surcharges may apply to expedited TATs

	Sample ID	Collection: Date	Collection: Time	Client Sample Info: Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO_3/Other	BAL Analyses Required: Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) (inorg, MMA, DMA)	Se Species (specify) Se(IV), Se(VI), SeCN, Uknown	Filtration	Other (specify)	Other (specify)	Comments: Specify Here
1	DR-03	8/27/24	1012	GW	2	Y					X					
2	INW-01	8/27/24	1212	GW	2	Y					X					
3	PT-03	8/27/24	1510	GW	2	Y					X					
4	DR-02	8/27/24	1630	GW	2	Y					X					
5	FD-01	8/27/24	—	GW	2	Y					X					
6	PT-02	8/28/24	1012	GW	2	Y					X					
7	DR-01	8/28/24	1146	GW	2	Y					X					
8	PT-01	8/28/24	1410	GW	2	Y					X					
9	MCM-06	8/28/24	1534	GW	2	Y					X					
10																
	Trip Blank															

Comments: Include Comments for Containers, Preservation, Filtration and Analysis

680-255318 Chain of Custody

Relinquished By: [illegible]	Date: 8/29/24	Time: 1004	Relinquished By: [illegible]	Date: 8/29/24	Time: 1159
Received By:	Date:	Time:	Total Number of Packages:	2.4/2.4	

Page____of____ List Hazardous Contaminants: _____

samples@brooksapplied.com | brooksapplied.com

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-255318-1

Login Number: 255318
List Number: 1
Creator: Johnson, Corey M

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 10/17/2024 3:47:53 PM

JOB DESCRIPTION

Plant McManus - Arsenic Speciation

JOB NUMBER

680-256219-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

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Authorization

Generated
10/17/2024 3:47:53 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Sample Summary

Client: Southern Company
Job ID: 680-256219-1
Project/Site: Plant McManus - Arsenic Speciation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-256219-1	MCM-INW-01	Water	09/17/24 12:22	09/19/24 10:11
680-256219-2	MCM-MCM-06	Water	09/17/24 11:56	09/19/24 10:11
680-256219-3	MCM-PT-01	Water	09/17/24 10:02	09/19/24 10:11
680-256219-4	MCM-PT-02	Water	09/17/24 15:37	09/19/24 10:11
680-256219-5	MCM-PT-03	Water	09/17/24 15:50	09/19/24 10:11
680-256219-6	MCM-DR-03	Water	09/17/24 10:35	09/19/24 10:11
680-256219-7	MCM-FD-01	Water	09/17/24 00:00	09/19/24 10:11
680-256219-8	MCM-DR-02	Water	09/18/24 09:58	09/19/24 10:11
680-256219-9	MCM-DR-01	Water	09/18/24 11:07	09/19/24 10:11

Job Narrative
680-256219-1

Receipt
The samples were received on 9/19/2024 10:11 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 2.7°C.

Subcontract Work
Method Metals Speciation: This method was subcontracted to Brooks Applied Labs LLC. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

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October 16, 2024

Eurofins Savannah
ATTN: David Fuller
5102 LaRoche Avenue
Savannah, GA 31404
david.fuller@et.eurofinsus.com

RE: Project EUR-SV2201 Client Project: Job#680-256219-1

Dear David Fuller,

On September 20, 2024, Brooks Applied Labs (BAL) received nine (9) water samples at a temperature of 1.4°C. The samples were logged-in for the analyses of arsenic speciation [As(III), As(V), DMA, MMA, and unknown As species] according to the chain-of-custody form. All samples were received and stored according to BAL SOPs and EPA methodology.

All samples were field filtered.

Arsenic Speciation Quantitation by IC-ICP-CRC-MS
Arsenic speciation was performed by ion chromatography inductively coupled plasma collision reaction cell mass spectrometry (IC-ICP-CRC-MS). Arsenic species are first chromatographically separated on an ion exchange column and then quantified using inductively coupled plasma collision reaction cell mass spectrometry (ICP-CRC-MS). For more information on this determinative technique, please visit the Interference Reduction Technology section on our website.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (**N/C**).

It should be noted that all Brooks Applied Labs, LLC methods, standard operating procedures, inventions, ideas, processes, improvements, designs, and techniques included or referred to therein, must be considered and treated as Proprietary Information, protected by the Washington State Trade Secret Act, RCW 19.108 et seq., and other laws. All Proprietary Information, written or implied, will not be distributed, copied, or altered in any fashion without prior written consent from Brooks Applied Labs, LLC. All Proprietary Information (including originals, copies, summaries, or other reproductions thereof) shall remain the property of Brooks Applied Labs, LLC at all times and must be returned upon demand. Furthermore, products presented in this document may be protected by Federal Patent laws and infringement will be subject to prosecution in accordance with Title 35 US Code 271.

The results were not method blank corrected, as described in the calculations section of the relevant BAL SOP(s), and were evaluated using reporting limits adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

All data was reported without further qualification and all other associated quality control sample results met the acceptance criteria.

BAL verifies that the reported results of all analyses for which the laboratory is accredited meet the requirements of the accrediting body, unless otherwise noted in the report narrative. For more information regarding accreditations please see the *Report Information* and *Batch Summary* pages. This report must be used in its entirety for interpretation of results.

Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Amy Goodall
Project Manager
Brooks Applied Labs
amy@brooksapplied.com

Report Information

General Disclaimers

Test results are based solely upon the sample submitted to Brooks Applied Labs in the condition it was received . This report shall not be reproduced or copied, except in full, without written approval of the laboratory. Brooks Applied Labs is not responsible for the consequences arising from the use of a partial report.

Laboratory Accreditation

BAL maintains accreditation with various state and national agencies for select test methods. For a current list of BAL accreditations, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. The reported analyte/matrix/method combination shall be considered outside BAL's scopes of accreditation unless otherwise identified as ISO, TNI, or ISO,TNI in the tables. It is the responsibility of the client to verify whether a specific accreditation is required for the intended data use.

ISO: ISO/IEC 17025:2017 accredited test method. Issued by ANSI National Accreditation Board (ANAB), #ADE-1447.02

TNI: NELAP accredited test method. Issued by the State of Florida Department of Health, #E87982.

ISO,TNI: Test method is accredited under both the ISO/IEC 17025:2017 and NELAP accreditations referenced above.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	**MS**	matrix spike
BAL	Brooks Applied Labs	**MSD**	matrix spike duplicate
BLK	method blank	**ND**	non-detect
BS	blank spike	**NR**	non-reportable
CAL	calibration standard	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
CCV	continuing calibration verification	**REC**	percent recovery
COC	chain of custody record	**RPD**	relative percent difference
D	dissolved fraction	**SCV**	secondary calibration verification
DUP	duplicate	**SOP**	standard operating procedure
IBL	instrument blank	**SRM**	reference material
ICV	initial calibration verification	**T**	total fraction
MDL	method detection limit	**TR**	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

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Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
MCM-INW-01 (680-256219-1)	2409339-01	Water	Sample	09/17/2024	08/30/2024
MCM-MCM-06 (680-256219-2)	2409339-02	Water	Sample	09/17/2024	08/30/2024
MCM-PT-01 (680-256219-3)	2409339-03	Water	Sample	09/17/2024	08/30/2024
MCM-PT-02 (680-256219-4)	2409339-04	Water	Sample	09/17/2024	08/30/2024
MCM-PT-03 (680-256219-5)	2409339-05	Water	Sample	09/17/2024	08/30/2024
MCM-DR-03 (680-256219-6)	2409339-06	Water	Sample	09/17/2024	08/30/2024
MCM-FD-01 (680-256219-7)	2409339-07	Water	Field Duplicate	09/17/2024	08/30/2024
MCM-DR-02 (680-256219-8)	2409339-08	Water	Sample	09/18/2024	08/30/2024
MCM-DR-01 (680-256219-9)	2409339-09	Water	Sample	09/18/2024	08/30/2024

Batch Summary

Analyte	Lab Matrix	Method	Accred.	Prepared	Analyzed	Batch	Sequence
As(III)	Water	SOP BAL-4100	ISO,TNI	09/30/24	09/30/24	B242421	S240947
As(V)	Water	SOP BAL-4100	ISO,TNI	09/30/24	09/30/24	B242421	S240947
DMAs	Water	SOP BAL-4100	ISO	09/30/24	09/30/24	B242421	S240947
MMAs	Water	SOP BAL-4100	ISO	09/30/24	09/30/24	B242421	S240947
Unk As Sp	Water	SOP BAL-4100		09/30/24	09/30/24	B242421	S240947

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Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MCM-INW-01 (680-256219-1)										
2409339-01	As(III)	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242421	S240947
2409339-01	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242421	S240947
2409339-01	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242421	S240947
2409339-01	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242421	S240947
2409339-01	Unk As Sp	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242421	S240947
MCM-MCM-06 (680-256219-2)										
2409339-02	As(III)	Water	D	0.865	J	0.800	4.20	µg/L	B242421	S240947
2409339-02	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B242421	S240947
2409339-02	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242421	S240947
2409339-02	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242421	S240947
2409339-02	Unk As Sp	Water	D	146		1.00	4.20	µg/L	B242421	S240947
MCM-PT-01 (680-256219-3)										
2409339-03	As(III)	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242421	S240947
2409339-03	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242421	S240947
2409339-03	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242421	S240947
2409339-03	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242421	S240947
2409339-03	Unk As Sp	Water	D	9.44		0.250	1.05	µg/L	B242421	S240947
MCM-PT-02 (680-256219-4)										
2409339-04	As(III)	Water	D	1.12		0.200	1.05	µg/L	B242421	S240947
2409339-04	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242421	S240947
2409339-04	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242421	S240947
2409339-04	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242421	S240947
2409339-04	Unk As Sp	Water	D	19.2		0.250	1.05	µg/L	B242421	S240947
MCM-PT-03 (680-256219-5)										
2409339-05	As(III)	Water	D	0.414	J	0.200	1.05	µg/L	B242421	S240947
2409339-05	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242421	S240947
2409339-05	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242421	S240947
2409339-05	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242421	S240947
2409339-05	Unk As Sp	Water	D	5.46		0.250	1.05	µg/L	B242421	S240947

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Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MCM-DR-03 (680-256219-6)										
2409339-06	As(III)	Water	D	0.320	J	0.200	1.05	µg/L	B242421	S240947
2409339-06	As(V)	Water	D	1.90		0.500	1.05	µg/L	B242421	S240947
2409339-06	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242421	S240947
2409339-06	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242421	S240947
2409339-06	Unk As Sp	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242421	S240947
MCM-FD-01 (680-256219-7)										
2409339-07	As(III)	Water	D	1.31		0.200	1.05	µg/L	B242421	S240947
2409339-07	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242421	S240947
2409339-07	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242421	S240947
2409339-07	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242421	S240947
2409339-07	Unk As Sp	Water	D	19.8		0.250	1.05	µg/L	B242421	S240947
MCM-DR-02 (680-256219-8)										
2409339-08	As(III)	Water	D	0.604	J	0.200	1.05	µg/L	B242421	S240947
2409339-08	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242421	S240947
2409339-08	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242421	S240947
2409339-08	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242421	S240947
2409339-08	Unk As Sp	Water	D	71.1		0.250	1.05	µg/L	B242421	S240947
MCM-DR-01 (680-256219-9)										
2409339-09	As(III)	Water	D	0.446	J	0.200	1.05	µg/L	B242421	S240947
2409339-09	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242421	S240947
2409339-09	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242421	S240947
2409339-09	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242421	S240947
2409339-09	Unk As Sp	Water	D	25.5		0.250	1.05	µg/L	B242421	S240947

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Accuracy & Precision Summary

Batch: B242421
Lab Matrix: Water
Method: SOP BAL-4100

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B242421-BS1	**Blank Spike, (2331029)**						
	As(III)		5.000	5.419	µg/L	108% 75-125	
	As(V)		5.000	5.140	µg/L	103% 75-125	
B242421-BS2	**Blank Spike, (2306015)**						
	DMAs		5.000	5.733	µg/L	115% 75-125	
	MMAs		4.400	4.857	µg/L	110% 75-125	
B242421-DUP1	**Duplicate, (2409339-02)**						
	As(III)	0.865		1.043	µg/L		19% 25
	As(V)	ND		ND	µg/L		N/C 25
	DMAs	ND		ND	µg/L		N/C 25
	MMAs	ND		ND	µg/L		N/C 25
	Unk As Sp	145.6		147.0	µg/L		1% 25
B242421-MS1	**Matrix Spike, (2409339-02)**						
	As(III)	0.865	209.0	225.3	µg/L	107% 75-125	
	As(V)	ND	194.2	215.3	µg/L	111% 75-125	
	DMAs	ND	222.2	244.8	µg/L	110% 75-125	
	MMAs	ND	200.0	217.8	µg/L	109% 75-125	
B242421-MSD1	**Matrix Spike Duplicate, (2409339-02)**						
	As(III)	0.865	209.0	223.6	µg/L	107% 75-125	0.8% 25
	As(V)	ND	194.2	213.8	µg/L	110% 75-125	0.7% 25
	DMAs	ND	222.2	240.1	µg/L	108% 75-125	2% 25
	MMAs	ND	200.0	214.7	µg/L	107% 75-125	1% 25

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Method Blanks & Reporting Limits

Batch: B242421
Matrix: Water
Method: SOP BAL-4100
Analyte: As(III)

Sample	Result	Units
B242421-BLK1	0.00	µg/L
B242421-BLK2	0.00	µg/L
B242421-BLK3	0.00	µg/L
B242421-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.004
MRL: 0.021

Analyte: As(V)

Sample	Result	Units
B242421-BLK1	0.001	µg/L
B242421-BLK2	0.0009	µg/L
B242421-BLK3	0.0008	µg/L
B242421-BLK4	0.002	µg/L

Average: 0.001
Limit: 0.021
MDL: 0.010
MRL: 0.021

Analyte: DMAs

Sample	Result	Units
B242421-BLK1	0.00	µg/L
B242421-BLK2	0.00	µg/L
B242421-BLK3	0.00	µg/L
B242421-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.005
MRL: 0.021

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Method Blanks & Reporting Limits

Analyte: MMAs

Sample	Result	Units
B242421-BLK1	0.00	µg/L
B242421-BLK2	0.00	µg/L
B242421-BLK3	0.00	µg/L
B242421-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.004
MRL: 0.021

Analyte: Unk As Sp

Sample	Result	Units
B242421-BLK1	0.00	µg/L
B242421-BLK2	0.00	µg/L
B242421-BLK3	0.00	µg/L
B242421-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.005
MRL: 0.021

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Sample Containers

Lab ID: 2409339-01 **Report Matrix:** Water **Collected:** 09/17/2024
Sample: MCM-INW-01 (680-256219-1) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339
B	XTRA_VOL	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339

Lab ID: 2409339-02 **Report Matrix:** Water **Collected:** 09/17/2024
Sample: MCM-MCM-06 (680-256219-2) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339
B	XTRA_VOL	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339

Lab ID: 2409339-03 **Report Matrix:** Water **Collected:** 09/17/2024
Sample: MCM-PT-01 (680-256219-3) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339
B	XTRA_VOL	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339

Lab ID: 2409339-04 **Report Matrix:** Water **Collected:** 09/17/2024
Sample: MCM-PT-02 (680-256219-4) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339
B	XTRA_VOL	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339

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Sample Containers

Lab ID: 2409339-05 **Report Matrix:** Water **Collected:** 09/17/2024
Sample: MCM-PT-03 (680-256219-5) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339
B	XTRA_VOL	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339

Lab ID: 2409339-06 **Report Matrix:** Water **Collected:** 09/17/2024
Sample: MCM-DR-03 (680-256219-6) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339
B	XTRA_VOL	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339

Lab ID: 2409339-07 **Report Matrix:** Water **Collected:** 09/17/2024
Sample: MCM-FD-01 (680-256219-7) **Sample Type:** Field Duplicate **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339
B	XTRA_VOL	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339

Lab ID: 2409339-08 **Report Matrix:** Water **Collected:** 09/18/2024
Sample: MCM-DR-02 (680-256219-8) **Sample Type:** Sample **Received:** 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339
B	XTRA_VOL	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339

Project ID: EUR-SV2201
PM: Amy Goodall

Client PM: David Fuller
Client Project: 680-256219-1

Sample Containers

Lab ID: 2409339-09
Sample: MCM-DR-01 (680-256219-9)

Report Matrix: Water
Sample Type: Sample

Collected: 09/18/2024
Received: 08/30/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339
B	XTRA_VOL	10mL	24-0060	EDTA in vial (PP)	na	na	Cooler - 2409339

Shipping Containers

Cooler - 2409339

Received: August 30, 2024 9:48
Tracking No: 6881 2506 3164 via FedEx
Coolant Type: Ice
Temperature: 1.4 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: R-IR-3

Custody seals present? No
Custody seals intact? No
COC present? Yes

13751 Lake City Way NE, Suite 108, Seattle, WA 98125 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

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BAL Report 2409339

10/17/2024

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-782928.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 1
Company: Brooks Applied Labs LLC		Accreditations Required (See note): State - Georgia		Job #: 680-256219-1
Address: 13751 Lake City Way NE, Suite 108,	Due Date Requested: 10/7/2024			Preservation Codes: -
City: Seattle	TAT Requested (days):			
State, Zip: WA, 98125				
Phone:	PO #:			
Email:	WO #:			
Project Name: Plant McManus - Arsenic Speciation	Project #: 68027841			
Site:	SSOW#:			Other:

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)	SUB (Metals Speciation)/ Metals Speciation	Total Number of containers	Special Instructions/Note:
			Preservation Code						
MCM-INW-01 (680-256219-1)	9/17/24	12:22 Eastern	G	Water			X	2	
MCM-MCM-06 (680-256219-2)	9/17/24	11:56 Eastern	G	Water			X	2	
MCM-PT-01 (680-256219-3)	9/17/24	10:02 Eastern	G	Water			X	2	
MCM-PT-02 (680-256219-4)	9/17/24	15:37 Eastern	G	Water			X	2	
MCM-PT-03 (680-256219-5)	9/17/24	15:50 Eastern	G	Water			X	2	
MCM-DR-03 (680-256219-6)	9/17/24	10:35 Eastern	G	Water			X	2	
MCM-FD-01 (680-256219-7)	9/17/24	Eastern	G	Water			X	2	
MCM-DR-02 (680-256219-8)	9/18/24	09:58 Eastern	G	Water			X	2	
MCM-DR-01 (680-256219-9)	9/18/24	11:07 Eastern	G	Water			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:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		9/19/24 1530			9/20/24 1016	BAL
2	Relinquished by:	Date/Time:	Company	Received by:	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:

Ver: 05/06/2024

Chain-of-Custody Form

BROOKS APPLIED LABS

Ship samples to:
13751 Lake City Way NE. Suite 108
Seattle, WA 98125

For BAL use only
Received by: _____ *Date:* _____
Work Order ID: _____ *Time:* _____
Project ID: _____

Client: Southwest Company
Contact: David Fuller
Client Project ID: _____
Samples Collected By: Brandube / Valentin Popov / Jay Sinnett

PO Number: _____
Phone: 425-395-0653
Email: [illegible]

Mailing Address: 10033 Woodinville Pkwy Suite 320 Woodinville, WA 98077
Email Receipt Confirmation? (Yes/No)
BAL PM: _____

Requested TAT (business days)
- ☐ 20 (standard)
- ☐ 15*
- ☐ 10*
- ☐ 5*
- ☐ Other ____

*Surcharges may apply to expedited TATs

	Sample ID	Collection: Date	Collection: Time	Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO_3/Other	Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) InOrg (IV)(V)/MMA/DMA	Se Species (specify) Se(IV), Se(VI), SeCN, Uknown	Filtration	Other (specify)	Other (specify)	Comments: Specify Here
1	MCM-WW6-01	9/17/24	1222	WG	2	Y					X					
2	MCM-MCM-06	9/17/24	1156	WG	2	Y					X					
3	MCM-PT-01	9/17/24	1502	WG	2	Y					X					
4	MCM-PT-02	9/17/24	1537	WG	2	Y					X					
5	MCM-PT-03	9/17/24	1555	WG	2	Y					X					
6	MCM-DR-03	9/17/24	1035	WG	2	Y					X					
7	MCM-FD-01	9/17/24	–	WG	2	Y					X					
8	MCM-DR-02	9/18/24	0958	WG	2	Y					X					
9	MCM-DR-01	9/18/24	1107	WG	2	Y					X					
10																
	Trip Blank															

680-256219 Chain of Custody

Relinquished By: [signature]	Date: 9/18/24	Time: 1420	Relinquished By: Fed Ex
Received By: [signature]	Date:	Time:	Total Number of Packages:

Date: | Time:
9/19/24 1011 2.7/2.7

Page 1 of 1

List Hazardous Contaminants: _____

samples@brooksapplied.com | brooksapplied.com

Plant McManus Performance Monitoring Sampling Week 4				
Task Code: MCM-CCR-CA-20240916				
Location Code/Label	**Sample Code**	**Matrix Code**	**Sulfide[3] (SM4500)**	**As Speciation[1] (IC-ICP-MS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X
MCM-PT-02	MCM-PT-02-WG	WG	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X
MCM-DR-02	MCM-DR-02 WG-	WG	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X
MCM-AP1-FB-01	MCM-AP1 FB-01-WQ-	WQ	X	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X	
Extra 1			X	
Extra 2			X	

[1]As speciation to be analyzed by Brooks through Eurofins

[3]Sulfide samples to be analyzed by Eurofins

BROOKS APPLIED LABS

13751 Lake City Way NE
Suite 108
Seattle, WA 98125
www.brooksapplied.com

Phone: 206-632-6206
Fax: 206-632-6017
Email: info@brooksapplied.com

10/17/2024

Sample Container Order Form and Packing Slip

Date to ship by: 8/28/2024
Date to Arrive: 9/5/2024

Shipper: FedEx
Service to Use: Ground

Service Changed? ☐ Yes, for _____

Paired with tubing order? no

Project ID: EUR-SV2201
Ship To (Company): Resolute
Contact Name: Attn: Kevin Stephenson
Shipping Address: 1003 Weatherstone Parkway, Suite 320
Woodstock, GA 30188

Date: 8/27/2024
Phone: (470) 895-0653
Fax:
Cell:
Email: kevin.stephenson@resoluteenv.com
BAL PM: Amy Goodall

Bill to: 1 - Sender (BAL)

COPY

Ship Using: ☑ Cooler ☐ Cardboard Box

Comments: Eurofins PM is David Fuller

Quantity Needed	Pre-preserved?	Description	Cleaning Lot Number	Amount per Lot
11	no	**As Speciation (HPLC): 2 x 10mL Vacutainer** *DO NOT USE ACID-CLEANED BOTTLES! - For BAL use* *SC: For vacutainers (10mL Lavendar lid), also need to include per container:* *25mL syringes* ☒ *0.45 µm syringe filters* ☒ *25 gauge needles* ☒ 500 mL *HDPE Sharps Container(s)* ☒ *(Need enough containers to include all syringes/sampling sites)* ***Please check boxes above once items have been packed*** ***Vacutainer Expiration date:*** 12-31-2024 ***(Should be no less than 2 months from today's date)*** *Notes:*	24-0060 N/A ~~N/A~~ 0 N/A 20-0177	11 11 11 11 1

Submitted By: ACG
Assembled By: GHS
Shipped By: EO
Reviewed By: EO

A COPY OF THIS FORM SHOULD BE INCLUDED WITH THE SHIPMENT AS A PACKING SLIP

0 EE GHS 8/27/24
Filter Lot: 24-0024

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-256219-1

Login Number: 256219

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 10/31/2024 5:23:00 PM

JOB DESCRIPTION

Plant McManus - Arsenic Speciation 8 Week Oct.

JOB NUMBER

680-257317-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
10/31/2024 5:23:00 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Sample Summary

Client: Southern Company
Job ID: 680-257317-1
Project/Site: Plant McManus - Arsenic Speciation 8 Week Oct.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-257317-1	MCM-INW-01	Water	10/15/24 14:11	10/17/24 10:09
680-257317-2	MCM-MCM-06	Water	10/15/24 11:41	10/17/24 10:09
680-257317-3	MCM-PT-01	Water	10/15/24 09:55	10/17/24 10:09
680-257317-4	MCM-PT-02	Water	10/15/24 16:01	10/17/24 10:09
680-257317-5	MCM-PT-03	Water	10/15/24 16:46	10/17/24 10:09
680-257317-6	MCM-DR-01	Water	10/15/24 14:18	10/17/24 10:09
680-257317-7	MCM-DR-02	Water	10/15/24 10:16	10/17/24 10:09
680-257317-8	MCM-DR-03	Water	10/15/24 10:30	10/17/24 10:09
680-257317-9	MCM-AP1-FD-01	Water	10/15/24 00:00	10/17/24 10:09

Case Narrative

Client: Southern Company
Job ID: 680-257317-1
Project: Plant McManus - Arsenic Speciation 8 Week Oct.

Job ID: 680-257317-1 — Eurofins Savannah

Job Narrative
680-257317-1

Receipt
The samples were received on 10/17/2024 10:09 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 3.1°C.

Subcontract Work
Method Metals Speciation: This method was subcontracted to Brooks Applied Labs LLC. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

BROOKS APPLIED LABS
13751 Lake City Way NE, Ste 108, Seattle, WA 98125 • USA • T:206-632-6206 • info@brooksapplied.com

October 31, 2024

Eurofins Savannah
ATTN: David Fuller
5102 LaRoche Avenue
Savannah, GA 31404
david.fuller@et.eurofinsus.com

RE: Project EUR-SV2201 Client Project: Job#680-257317-1

Dear David Fuller,

On October 18, 2024, Brooks Applied Labs (BAL) received nine (9) water samples at a temperature of 4.5°C. The samples were logged-in for the analyses of arsenic speciation [As(III), As(V), DMA, MMA, and unknown As species] according to the chain-of-custody form. All samples were received and stored according to BAL SOPs and EPA methodology.

All samples were field filtered.

Arsenic Speciation Quantitation by IC-ICP-CRC-MS
Arsenic speciation was performed by ion chromatography inductively coupled plasma collision reaction cell mass spectrometry (IC-ICP-CRC-MS). Arsenic species are first chromatographically separated on an ion exchange column and then quantified using inductively coupled plasma collision reaction cell mass spectrometry (ICP-CRC-MS). For more information on this determinative technique, please visit the Interference Reduction Technology section on our website.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (**N/C**).

It should be noted that all Brooks Applied Labs, LLC methods, standard operating procedures, inventions, ideas, processes, improvements, designs, and techniques included or referred to therein, must be considered and treated as Proprietary Information, protected by the Washington State Trade Secret Act, RCW 19.108 et seq., and other laws. All Proprietary Information, written or implied, will not be distributed, copied, or altered in any fashion without prior written consent from Brooks Applied Labs, LLC. All Proprietary Information (including originals, copies, summaries, or other reproductions thereof) shall remain the property of Brooks Applied Labs, LLC at all times and must be returned upon demand. Furthermore, products presented in this document may be protected by Federal Patent laws and infringement will be subject to prosecution in accordance with Title 35 US Code 271.

The results were not method blank corrected, as described in the calculations section of the relevant BAL SOP(s), and were evaluated using reporting limits adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

All data was reported without further qualification and all other associated quality control sample results met the acceptance criteria.

BAL verifies that the reported results of all analyses for which the laboratory is accredited meet the requirements of the accrediting body, unless otherwise noted in the report narrative. For more information regarding accreditations please see the *Report Information* and *Batch Summary* pages. This report must be used in its entirety for interpretation of results.

Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Amy Goodall
Project Manager
Brooks Applied Labs
amy@brooksapplied.com

Report Information

General Disclaimers

Test results are based solely upon the sample submitted to Brooks Applied Labs in the condition it was received . This report shall not be reproduced or copied, except in full, without written approval of the laboratory. Brooks Applied Labs is not responsible for the consequences arising from the use of a partial report.

Laboratory Accreditation

BAL maintains accreditation with various state and national agencies for select test methods. For a current list of BAL accreditations, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. The reported analyte/matrix/method combination shall be considered outside BAL's scopes of accreditation unless otherwise identified as ISO, TNI, or ISO,TNI in the tables. It is the responsibility of the client to verify whether a specific accreditation is required for the intended data use.

ISO: ISO/IEC 17025:2017 accredited test method. Issued by ANSI National Accreditation Board (ANAB), #ADE-1447.02

TNI: NELAP accredited test method. Issued by the State of Florida Department of Health, #E87982.

ISO,TNI: Test method is accredited under both the ISO/IEC 17025:2017 and NELAP accreditations referenced above.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	**MS**	matrix spike
BAL	Brooks Applied Labs	**MSD**	matrix spike duplicate
BLK	method blank	**ND**	non-detect
BS	blank spike	**NR**	non-reportable
CAL	calibration standard	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
CCV	continuing calibration verification	**REC**	percent recovery
COC	chain of custody record	**RPD**	relative percent difference
D	dissolved fraction	**SCV**	secondary calibration verification
DUP	duplicate	**SOP**	standard operating procedure
IBL	instrument blank	**SRM**	reference material
ICV	initial calibration verification	**T**	total fraction
MDL	method detection limit	**TR**	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

13751 Lake City Way NE, Suite 108, Seattle, WA 98125 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
MCM-INW-01 (680-257317-1)	2410328-01	Water	Sample	10/15/2024	10/18/2024
MCM-MCM-06 (680-257317-2)	2410328-02	Water	Sample	10/15/2024	10/18/2024
MCM-PT-01 (680-257317-3)	2410328-03	Water	Sample	10/15/2024	10/18/2024
MCM-PT-02 (680-257317-4)	2410328-04	Water	Sample	10/15/2024	10/18/2024
MCM-PT-03 (680-257317-5)	2410328-05	Water	Sample	10/15/2024	10/18/2024
MCM-DR-01 (680-257317-6)	2410328-06	Water	Sample	10/15/2024	10/18/2024
MCM-DR-02 (680-257317-7)	2410328-07	Water	Sample	10/15/2024	10/18/2024
MCM-DR-03 (680-257317-8)	2410328-08	Water	Sample	10/15/2024	10/18/2024
MCM-AP1-FD-01 (680-257317-9)	2410328-09	Water	Sample	10/15/2024	10/18/2024

Batch Summary

Analyte	Lab Matrix	Method	Accred.	Prepared	Analyzed	Batch	Sequence
As(III)	Water	SOP BAL-4100	ISO,TNI	10/23/24	10/24/24	B242684	S241035
As(V)	Water	SOP BAL-4100	ISO,TNI	10/23/24	10/24/24	B242684	S241035
DMAs	Water	SOP BAL-4100	ISO	10/23/24	10/24/24	B242684	S241035
MMAs	Water	SOP BAL-4100	ISO	10/23/24	10/24/24	B242684	S241035
Unk As Sp	Water	SOP BAL-4100		10/23/24	10/24/24	B242684	S241035

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MCM-INW-01 (680-257317-1)										
2410328-01	As(III)	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-01	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B242684	S241035
2410328-01	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035
2410328-01	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-01	Unk As Sp	Water	D	1.12	J	1.00	4.20	µg/L	B242684	S241035
MCM-MCM-06 (680-257317-2)										
2410328-02	As(III)	Water	D	0.837	J	0.800	4.20	µg/L	B242684	S241035
2410328-02	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B242684	S241035
2410328-02	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035
2410328-02	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-02	Unk As Sp	Water	D	143		1.00	4.20	µg/L	B242684	S241035
MCM-PT-01 (680-257317-3)										
2410328-03	As(III)	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-03	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B242684	S241035
2410328-03	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035
2410328-03	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-03	Unk As Sp	Water	D	13.2		1.00	4.20	µg/L	B242684	S241035
MCM-PT-02 (680-257317-4)										
2410328-04	As(III)	Water	D	1.32	J	0.800	4.20	µg/L	B242684	S241035
2410328-04	As(V)	Water	D	23.3		2.00	4.20	µg/L	B242684	S241035
2410328-04	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035
2410328-04	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-04	Unk As Sp	Water	D	9.41		1.00	4.20	µg/L	B242684	S241035
MCM-PT-03 (680-257317-5)										
2410328-05	As(III)	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-05	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B242684	S241035
2410328-05	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035
2410328-05	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-05	Unk As Sp	Water	D	9.19		1.00	4.20	µg/L	B242684	S241035

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Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MCM-DR-01 (680-257317-6)										
2410328-06	As(III)	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-06	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B242684	S241035
2410328-06	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035
2410328-06	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-06	Unk As Sp	Water	D	26.5		1.00	4.20	µg/L	B242684	S241035
MCM-DR-02 (680-257317-7)										
2410328-07	As(III)	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-07	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B242684	S241035
2410328-07	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035
2410328-07	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-07	Unk As Sp	Water	D	79.5		1.00	4.20	µg/L	B242684	S241035
MCM-DR-03 (680-257317-8)										
2410328-08	As(III)	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-08	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B242684	S241035
2410328-08	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035
2410328-08	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-08	Unk As Sp	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035
MCM-AP1-FD-01 (680-257317-9)										
2410328-09	As(III)	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-09	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B242684	S241035
2410328-09	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035
2410328-09	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B242684	S241035
2410328-09	Unk As Sp	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B242684	S241035

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Accuracy & Precision Summary

Batch: B242684
Lab Matrix: Water
Method: SOP BAL-4100

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B242684-BS1	**Blank Spike, (2331029)**						
	As(III)		5.000	5.515	µg/L	110% 75-125	
	As(V)		5.000	5.454	µg/L	109% 75-125	
B242684-BS2	**Blank Spike, (2306015)**						
	DMAs		5.000	5.699	µg/L	114% 75-125	
	MMAs		4.400	4.791	µg/L	109% 75-125	
B242684-DUP2	**Duplicate, (2410328-09)**						
	As(III)	ND		ND	µg/L		N/C 25
	As(V)	ND		ND	µg/L		N/C 25
	DMAs	ND		ND	µg/L		N/C 25
	MMAs	ND		ND	µg/L		N/C 25
	Unk As Sp	ND		ND	µg/L		N/C 25
B242684-MS2	**Matrix Spike, (2410328-09)**						
	As(III)	ND	209.0	232.0	µg/L	111% 75-125	
	As(V)	ND	194.2	220.7	µg/L	114% 75-125	
	DMAs	ND	222.2	246.1	µg/L	111% 75-125	
	MMAs	ND	200.0	222.3	µg/L	111% 75-125	
B242684-MSD2	**Matrix Spike Duplicate, (2410328-09)**						
	As(III)	ND	209.0	234.8	µg/L	112% 75-125	1% 25
	As(V)	ND	194.2	217.8	µg/L	112% 75-125	1% 25
	DMAs	ND	222.2	249.1	µg/L	112% 75-125	1% 25
	MMAs	ND	200.0	221.0	µg/L	110% 75-125	0.6% 25

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Method Blanks & Reporting Limits

Batch: B242684
Matrix: Water
Method: SOP BAL-4100
Analyte: As(III)

Sample	Result	Units
B242684-BLK1	0.00	µg/L
B242684-BLK2	0.00	µg/L
B242684-BLK3	0.00	µg/L
B242684-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.004
MRL: 0.021

Analyte: As(V)

Sample	Result	Units
B242684-BLK1	0.0008	µg/L
B242684-BLK2	0.0004	µg/L
B242684-BLK3	0.0001	µg/L
B242684-BLK4	0.00004	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.010
MRL: 0.021

Analyte: DMAs

Sample	Result	Units
B242684-BLK1	0.00	µg/L
B242684-BLK2	0.00	µg/L
B242684-BLK3	0.00	µg/L
B242684-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.005
MRL: 0.021

Method Blanks & Reporting Limits

Analyte: MMAs

Sample	Result	Units
B242684-BLK1	0.00	µg/L
B242684-BLK2	0.00	µg/L
B242684-BLK3	0.00	µg/L
B242684-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.004
MRL: 0.021

Analyte: Unk As Sp

Sample	Result	Units
B242684-BLK1	0.00	µg/L
B242684-BLK2	0.00	µg/L
B242684-BLK3	0.00	µg/L
B242684-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.005
MRL: 0.021

Sample Containers

Lab ID: 2410328-01 **Report Matrix:** Water **Collected:** 10/15/2024
Sample: MCM-INW-01 (680-257317-1) **Sample Type:** Sample **Received:** 10/18/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328
B	XTRA_VOL	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328

Lab ID: 2410328-02 **Report Matrix:** Water **Collected:** 10/15/2024
Sample: MCM-MCM-06 (680-257317-2) **Sample Type:** Sample **Received:** 10/18/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328
B	XTRA_VOL	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328

Lab ID: 2410328-03 **Report Matrix:** Water **Collected:** 10/15/2024
Sample: MCM-PT-01 (680-257317-3) **Sample Type:** Sample **Received:** 10/18/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328
B	XTRA_VOL	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328

Lab ID: 2410328-04 **Report Matrix:** Water **Collected:** 10/15/2024
Sample: MCM-PT-02 (680-257317-4) **Sample Type:** Sample **Received:** 10/18/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328
B	XTRA_VOL	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328

Sample Containers

Lab ID: 2410328-05 **Report Matrix:** Water **Collected:** 10/15/2024
Sample: MCM-PT-03 (680-257317-5) **Sample Type:** Sample **Received:** 10/18/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328
B	XTRA_VOL	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328

Lab ID: 2410328-06 **Report Matrix:** Water **Collected:** 10/15/2024
Sample: MCM-DR-01 (680-257317-6) **Sample Type:** Sample **Received:** 10/18/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328
B	XTRA_VOL	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328

Lab ID: 2410328-07 **Report Matrix:** Water **Collected:** 10/15/2024
Sample: MCM-DR-02 (680-257317-7) **Sample Type:** Sample **Received:** 10/18/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328
B	XTRA_VOL	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328

Lab ID: 2410328-08 **Report Matrix:** Water **Collected:** 10/15/2024
Sample: MCM-DR-03 (680-257317-8) **Sample Type:** Sample **Received:** 10/18/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328
B	XTRA_VOL	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328

Project ID: EUR-SV2201
PM: Amy Goodall

Client PM: David Fuller
Client Project: 680-257317-1

Sample Containers

Lab ID: 2410328-09
Sample: MCM-AP1-FD-01 (680-257317-9)

Report Matrix: Water
Sample Type: Sample

Collected: 10/15/2024
Received: 10/18/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328
B	XTRA_VOL	10 mL	24-0082	EDTA (vial)	n/a	n/a	Cooler - 2410328

Shipping Containers

Cooler - 2410328

Received: October 18, 2024 10:00
Tracking No: 6881 2506 9644 via FedEx
Coolant Type: Ice
Temperature: 4.5 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: R-IR-6

Custody seals present? No
Custody seals intact? No
COC present? Yes

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Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

BAL Report 2410328

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 680-784943.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 1
Company: Brooks Applied Labs LLC		Accreditations Required (See note): State - Georgia		Job #: 680-257317-1
Address: 13751 Lake City Way NE, Suite 108,	Due Date Requested: 11/6/2024			Preservation Codes:
City: Seattle	TAT Requested (days):			
State, Zip: WA, 98125				
Phone:	PO #:			
Email:	WO #:			
Project Name: Plant McManus Performance Monitoring 8 Week Oct.	Project #: 68027841			
Site:	SSOW#:			Other:

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)	SUB (Metals Speciation)/ Metals Speciation	Total Number of containers	Special Instructions/Note:
			Preservation Code						
MCM-INW-01 (680-257317-1)	10/15/24	14:11 Eastern	G	Water			X	2	
MCM-MCM-06 (680-257317-2)	10/15/24	11:41 Eastern	G	Water			X	2	
MCM-PT-01 (680-257317-3)	10/15/24	09:55 Eastern	G	Water			X	2	
MCM-PT-02 (680-257317-4)	10/15/24	16:01 Eastern	G	Water			X	2	
MCM-PT-03 (680-257317-5)	10/15/24	16:46 Eastern	G	Water			X	2	
MCM-DR-01 (680-257317-6)	10/15/24	14:18 Eastern	G	Water			X	2	
MCM-DR-02 (680-257317-7)	10/15/24	10:16 Eastern	G	Water			X	2	
MCM-DR-03 (680-257317-8)	10/15/24	10:30 Eastern	G	Water			X	2	
MCM-AP1-FD-01 (680-257317-9)	10/15/24	Eastern	G	Water			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:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/17/24 1600		JNT	10/18/24 1000	
2	Relinquished by:	Date/Time:	Company	Received by:	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:

Ver: 05/06/2024

Chain-of-Custody Form

BROOKS APPLIED LABS

Ship samples to:
13751 Lake City Way NE, Suite 108
Seattle, WA 98125

BAL Report 2410328

For BAL use only
Received by: JNT Date: 10/18/24
Work Order ID: Time: 1000
Project ID:

Client: Southern Company
Contact: David Fuller
Client Project ID:
Samples Collected By: Resolute / Natalie Piparo / Jay Siewert

PO Number:
Phone: (908) 797-0335
Email: natalie.piparo@resoluteenv.com

Mailing Address: 1003 Weatherstone Parkway Suite 320 Woodstock GA 30188
Email Receipt Confirmation? (Yes/No)
BAL PM:

Requested TAT (business days)
- ☐ 20 (standard)
- ☐ 15*
- ☐ 10*
- ☐ 5*
- ☐ Other ____

*Surcharges may apply to expedited TATs

	Sample ID	Collection: Date	Collection: Time	Client Sample Info: Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl / HNO_3 / Other	BAL Analyses Required: Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) (Org, III, V, MMA, DMA)	Se-Species (specify) Se(IV), Se(VI), SeCN, Uknown	Filtration	Other (specify)	Other (specify)	Comments: Specify Here
1	MCM-INW-01	10/15/24	1411	WG	2	Y					X					
2	MCM-MCM-06	10/15/24	1141	WG	2	Y					X					
3	MCM-PT-01	10/15/24	0955	WG	2	Y					X					
4	MCM-PT-02	10/15/24	1601	WG	2	Y					X					
5	MCM-PT-03	10/15/24	1646	WG	2	Y					X					
6	MCM-DR-01	10/15/24	1418	WG	2	Y					X					
7	MCM-DR-02	10/16/24	1016	WG	2	Y					X					
8	MCM-DR-03	10/15/24	1031	WG	2	Y					X					
9	MCM-API-FD-01	10/15/24	—	WG	2	Y					X					
10																
	Trip Blank															

650-257317 Chain of Custody

Relinquished By:	Date: 10/16/24	Time: 1200	Relinquished By:	Date:	Time:
Received By: Fed Ex	Date:	Time:	Total Number of Packages:		

Page 1 of 1

List Hazardous Contaminants:

samples@brooksapplied.com | brooksapplied.com

10/17/24 1009 3.1/3.1

Chain-of-Custody Form

BROOKS APPLIED LABS

Ship samples to:
13751 Lake City Way NE, Suite 108
Seattle, WA 98125

For BAL use only
Received by: _____ *Date:* _____
Work Order ID: _____ *Time:* _____
Project ID: _____

Client: Southern Company
Contact: David Fuller
Client Project ID: _____
Samples Collected By: Resolute / Natalie Pisaro / Jay Siewert

PO Number: _____
Phone: (908) 797-0335
Email: natalie.pisaro@resolute-env.com

Mailing Address: 1003 Weatherstone Parkway Suite 320 Woodstock GA 30188
Email Receipt Confirmation? (Yes/No)
BAL PM: _____

Requested TAT (business days)
- ☐ 20 (standard)
- ☐ 15*
- ☐ 10*
- ☐ 5*
- ☐ Other ____

*Surcharges may apply to expedited TATs

	Sample ID	Collection: Date	Collection: Time	Client Sample Info: Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO_3/Other	BAL Analyses Required: Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) (IOrg, III, V, MMA, DMA)	Se Species (specify) Se(IV), Se(VI), SeCN, Uknown	Filtration	Other (specify)	Other (specify)	Comments: Specify Here
1	MCM-INW-01	10/15/24	1411	WG	2	Y					X					
2	MCM-MCM-06	10/15/24	1141	WG	2	Y					X					
3	MCM-PT-01	10/15/24	0955	WG	2	Y					X					
4	MCM-PT-02	10/15/24	1001	WG	2	Y					X					
5	MCM-PT-03	10/15/24	1646	WG	2	Y					X					
6	MCM-DR-01	10/15/24	1418	WG	2	Y					X					
7	MCM-DR-02	10/16/24	1016	WG	2	Y					X					
8	MCM-DR-03	10/15/24	1031	WG	2	Y					X					
9	MCM-API-FD-01	10/15/24	—	WG	2	Y					X					
10																
	Trip Blank															

660-257317 Chain of Custody

Relinquished By:	Date: 10/16/24	Time: 1200	Relinquished By: / Date: / Time:
Received By: Fed Ex	Date:	Time:	Total Number of Packages:

Page 1 of 1

List Hazardous Contaminants: _____

10/17/24 1009 3.1/3.1

samples@brooksapplied.com | brooksapplied.com

Plant McManus Performance Monitoring Sampling Week 8				
Task Code: MCM-CCR-CA-20241014				
Location Code/Label	**Sample Code**	**Matrix Code**	**Sulfide[3] (SM4500)**	**As Speciation[1] (IC-ICP-MS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X	
Extra 1			X	
Extra 2			X	

[1]As speciation to be analyzed by Brooks through Eurofins

[3]Sulfide samples to be analyzed by Eurofins

BROOKS APPLIED LABS

13751 Lake City Way NE
Suite 108
Seattle, WA 98125
www.brooksapplied.com

Phone: 206-632-6206
Fax: 206-632-6017
Email: info@brooksapplied.com

10/31/2024

Sample Container Order Form and Packing Slip

COPY

Date to ship by: 9/27/2024
Date to Arrive: 10/4/2024

Shipper: FedEx
Service to Use: Ground

Service Changed? ☐ Yes, for_____

Paired with tubing order? no

Project ID: EUR-SV2201
Ship To (Company): Resolute
Contact Name: Attn: Natalie Piparo
Shipping Address: 1003 Weatherstone Parkway, Suite 320
Woodstock, GA 30188

Date: 9/23/2024
Phone: (470) 895-0653
Fax:
Cell:
Email: Natalie.piparo@resoluteenv.com
BAL PM: Amy Goodall

Bill to: 1 - Sender (BAL)

Ship Using: ☑ Cooler ☐ Cardboard Box

Comments: Eurofins PM is David Fuller

Quantity Needed	Pre-preserved?	Description	Cleaning Lot Number	Amount per Lot
10	no	**As Speciation (HPLC): 2 x 10mL Vacutainer** *DO NOT USE ACID-CLEANED BOTTLES! - For BAL use*	24-0082	10
		SC: For vacutainers (10mL Lavendar lid), also need to include per container: *25mL syringes* ☑ *0.45 µm syringe filters* ☑ *25 gauge needles* ☑ 1 *HDPE Sharps Container(s)* ☑ *(Need enough containers to include all syringes/sampling sites)* ***Please check boxes above once items have been packed*** ***Vacutainer Expiration date:*** 2/28/25 ***(Should be no less than 2 months from today's date)*** *Notes:*	- NA 23-0113 NA 20-CITY	10 10 10 1

Submitted By: ACG
Assembled By: JT
Shipped By: JT
Reviewed By: BJN

A COPY OF THIS FORM SHOULD BE INCLUDED WITH THE SHIPMENT AS A PACKING SLIP

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-257317-1

Login Number: 257317
List Number: 1
Creator: Johnson, Corey M

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 12/10/2024 9:14:52 AM

JOB DESCRIPTION

Plant McManus - Arsenic Speciation 12 Week Dec.

JOB NUMBER

680-258577-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Authorization

Generated
12/10/2024 9:14:52 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Sample Summary

Client: Southern Company
Job ID: 680-258577-1
Project/Site: Plant McManus - Arsenic Speciation 12 Week Dec.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-258577-1	MCM-INW-01	Water	11/12/24 15:15	11/14/24 09:48
680-258577-2	MCM-MCM-06	Water	11/12/24 10:26	11/14/24 09:48
680-258577-3	MCM-PT-01	Water	11/12/24 12:54	11/14/24 09:48
680-258577-4	MCM-PT-02	Water	11/13/24 09:47	11/14/24 09:48
680-258577-5	MCM-PT-03	Water	11/12/24 12:30	11/14/24 09:48
680-258577-6	MCM-DR-01	Water	11/12/24 15:35	11/14/24 09:48
680-258577-7	MCM-DR-02	Water	11/13/24 09:58	11/14/24 09:48
680-258577-8	MCM-DR-03	Water	11/12/24 10:29	11/14/24 09:48
680-258577-9	MCM-AP1-FD-01	Water	11/12/24 00:00	11/14/24 09:48

Job ID: 680-258577-1 Eurofins Savannah

Job Narrative
680-258577-1

Receipt
The samples were received on 11/14/2024 9:48 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C.

Subcontract Work
Method Metals Speciation: This method was subcontracted to Brooks Applied Labs LLC. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

BROOKS APPLIED LABS
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December 9, 2024

Eurofins Savannah
ATTN: David Fuller
5102 LaRoche Avenue
Savannah, GA 31404
david.fuller@et.eurofinsus.com

RE: Project EUR-SV2201 Client Project: Job#680-258577-1

Dear David Fuller,

On November 15, 2024, Brooks Applied Labs (BAL) received nine (9) water samples at a temperature of 5.9°C. The samples were logged-in for the analyses of arsenic speciation [As(III), As(V), DMA, MMA, and unknown As species] according to the chain-of-custody form. All samples were received and stored according to BAL SOPs and EPA methodology.

All samples were field filtered.

Arsenic Speciation Quantitation by IC-ICP-CRC-MS
Arsenic speciation was performed by ion chromatography inductively coupled plasma collision reaction cell mass spectrometry (IC-ICP-CRC-MS). Arsenic species are first chromatographically separated on an ion exchange column and then quantified using inductively coupled plasma collision reaction cell mass spectrometry (ICP-CRC-MS). For more information on this determinative technique, please visit the Interference Reduction Technology section on our website.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (**N/C**).

It should be noted that all Brooks Applied Labs, LLC methods, standard operating procedures, inventions, ideas, processes, improvements, designs, and techniques included or referred to therein, must be considered and treated as Proprietary Information, protected by the Washington State Trade Secret Act, RCW 19.108 et seq., and other laws. All Proprietary Information, written or implied, will not be distributed, copied, or altered in any fashion without prior written consent from Brooks Applied Labs, LLC. All Proprietary Information (including originals, copies, summaries, or other reproductions thereof) shall remain the property of Brooks Applied Labs, LLC at all times and must be returned upon demand. Furthermore, products presented in this document may be protected by Federal Patent laws and infringement will be subject to prosecution in accordance with Title 35 US Code 271.

The results were not method blank corrected, as described in the calculations section of the relevant BAL SOP(s), and were evaluated using reporting limits adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

All data was reported without further qualification and all other associated quality control sample results met the acceptance criteria.

BAL verifies that the reported results of all analyses for which the laboratory is accredited meet the requirements of the accrediting body, unless otherwise noted in the report narrative. For more information regarding accreditations please see the *Report Information* and *Batch Summary* pages. This report must be used in its entirety for interpretation of results.

Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Amy Goodall
Project Manager
Brooks Applied Labs
amy@brooksapplied.com

Report Information

General Disclaimers

Test results are based solely upon the sample submitted to Brooks Applied Labs in the condition it was received . This report shall not be reproduced or copied, except in full, without written approval of the laboratory. Brooks Applied Labs is not responsible for the consequences arising from the use of a partial report.

Laboratory Accreditation

BAL maintains accreditation with various state and national agencies for select test methods. For a current list of BAL accreditations, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. The reported analyte/matrix/method combination shall be considered outside BAL's scopes of accreditation unless otherwise identified as ISO, TNI, or ISO,TNI in the tables. It is the responsibility of the client to verify whether a specific accreditation is required for the intended data use.

ISO: ISO/IEC 17025:2017 accredited test method. Issued by ANSI National Accreditation Board (ANAB), #ADE-1447.02

TNI: NELAP accredited test method. Issued by the State of Florida Department of Health, #E87982.

ISO,TNI: Test method is accredited under both the ISO/IEC 17025:2017 and NELAP accreditations referenced above.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	**MS**	matrix spike
BAL	Brooks Applied Labs	**MSD**	matrix spike duplicate
BLK	method blank	**ND**	non-detect
BS	blank spike	**NR**	non-reportable
CAL	calibration standard	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
CCV	continuing calibration verification	**REC**	percent recovery
COC	chain of custody record	**RPD**	relative percent difference
D	dissolved fraction	**SCV**	secondary calibration verification
DUP	duplicate	**SOP**	standard operating procedure
IBL	instrument blank	**SRM**	reference material
ICV	initial calibration verification	**T**	total fraction
MDL	method detection limit	**TR**	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

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Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
MCM-INW-01 (680-258577-1)	2411201-01	Water	Sample	11/12/2024	11/15/2024
MCM-MCM-06 (680-258577-2)	2411201-02	Water	Sample	11/12/2024	11/15/2024
MCM-PT-01 (680-258577-3)	2411201-03	Water	Sample	11/12/2024	11/15/2024
MCM-PT-02 (680-258577-4)	2411201-04	Water	Sample	11/13/2024	11/15/2024
MCM-PT-03 (680-258577-5)	2411201-05	Water	Sample	11/12/2024	11/15/2024
MCM-DR-01 (680-258577-6)	2411201-06	Water	Sample	11/12/2024	11/15/2024
MCM-DR-02 (680-258577-7)	2411201-07	Water	Sample	11/13/2024	11/15/2024
MCM-DR-03 (680-258577-8)	2411201-08	Water	Sample	11/12/2024	11/15/2024
MCM-AP1-FD-01 (680-258577-9)	2411201-09	Water	Sample	11/12/2024	11/15/2024

Batch Summary

Analyte	Lab Matrix	Method	Accred.	Prepared	Analyzed	Batch	Sequence
As(III)	Water	SOP BAL-4100	ISO,TNI	11/21/24	11/22/24	B242946	S241142
As(V)	Water	SOP BAL-4100	ISO,TNI	11/21/24	11/22/24	B242946	S241142
DMAs	Water	SOP BAL-4100	ISO	11/21/24	11/22/24	B242946	S241142
MMAs	Water	SOP BAL-4100	ISO	11/21/24	11/22/24	B242946	S241142
Unk As Sp	Water	SOP BAL-4100		11/21/24	11/22/24	B242946	S241142

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Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MCM-INW-01 (680-258577-1)										
2411201-01	As(III)	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-01	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242946	S241142
2411201-01	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
2411201-01	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-01	Unk As Sp	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
MCM-MCM-06 (680-258577-2)										
2411201-02	As(III)	Water	D	0.942	J	0.200	1.05	µg/L	B242946	S241142
2411201-02	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242946	S241142
2411201-02	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
2411201-02	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-02	Unk As Sp	Water	D	163		0.250	1.05	µg/L	B242946	S241142
MCM-PT-01 (680-258577-3)										
2411201-03	As(III)	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-03	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242946	S241142
2411201-03	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
2411201-03	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-03	Unk As Sp	Water	D	14.4		0.250	1.05	µg/L	B242946	S241142
MCM-PT-02 (680-258577-4)										
2411201-04	As(III)	Water	D	0.674	J	0.200	1.05	µg/L	B242946	S241142
2411201-04	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242946	S241142
2411201-04	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
2411201-04	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-04	Unk As Sp	Water	D	12.2		0.250	1.05	µg/L	B242946	S241142
MCM-PT-03 (680-258577-5)										
2411201-05	As(III)	Water	D	0.385	J	0.200	1.05	µg/L	B242946	S241142
2411201-05	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242946	S241142
2411201-05	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
2411201-05	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-05	Unk As Sp	Water	D	13.3		0.250	1.05	µg/L	B242946	S241142

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Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MCM-DR-01 (680-258577-6)										
2411201-06	As(III)	Water	D	0.294	J	0.200	1.05	µg/L	B242946	S241142
2411201-06	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242946	S241142
2411201-06	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
2411201-06	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-06	Unk As Sp	Water	D	29.1		0.250	1.05	µg/L	B242946	S241142
MCM-DR-02 (680-258577-7)										
2411201-07	As(III)	Water	D	0.658	J	0.200	1.05	µg/L	B242946	S241142
2411201-07	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242946	S241142
2411201-07	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
2411201-07	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-07	Unk As Sp	Water	D	80.9		0.250	1.05	µg/L	B242946	S241142
MCM-DR-03 (680-258577-8)										
2411201-08	As(III)	Water	D	0.364	J	0.200	1.05	µg/L	B242946	S241142
2411201-08	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242946	S241142
2411201-08	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
2411201-08	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-08	Unk As Sp	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
MCM-AP1-FD-01 (680-258577-9)										
2411201-09	As(III)	Water	D	0.931	J	0.200	1.05	µg/L	B242946	S241142
2411201-09	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B242946	S241142
2411201-09	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B242946	S241142
2411201-09	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B242946	S241142
2411201-09	Unk As Sp	Water	D	152		0.250	1.05	µg/L	B242946	S241142

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Accuracy & Precision Summary

Batch: B242946
Lab Matrix: Water
Method: SOP BAL-4100

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B242946-BS1	**Blank Spike, (2331029)**						
	As(III)		5.000	4.648	µg/L	93% 75-125	
	As(V)		5.000	4.470	µg/L	89% 75-125	
B242946-BS2	**Blank Spike, (2306015)**						
	DMAs		5.000	4.950	µg/L	99% 75-125	
	MMAs		4.400	4.174	µg/L	95% 75-125	
B242946-DUP5	**Duplicate, (2411201-09)**						
	As(III)	0.931		0.974	µg/L		4% 25
	As(V)	ND		ND	µg/L		N/C 25
	DMAs	ND		ND	µg/L		N/C 25
	MMAs	ND		ND	µg/L		N/C 25
	Unk As Sp	152.1		150.7	µg/L		0.9% 25
B242946-MS5	**Matrix Spike, (2411201-09)**						
	As(III)	0.931	52.25	58.12	µg/L	109% 75-125	
	As(V)	ND	48.55	60.13	µg/L	124% 75-125	
	DMAs	ND	55.55	64.72	µg/L	117% 75-125	
	MMAs	ND	50.00	57.09	µg/L	114% 75-125	
B242946-MSD5	**Matrix Spike Duplicate, (2411201-09)**						
	As(III)	0.931	52.25	55.52	µg/L	104% 75-125	5% 25
	As(V)	ND	48.55	60.51	µg/L	125% 75-125	0.6% 25
	DMAs	ND	55.55	64.99	µg/L	117% 75-125	0.4% 25
	MMAs	ND	50.00	57.49	µg/L	115% 75-125	0.7% 25

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Method Blanks & Reporting Limits

Batch: B242946
Matrix: Water
Method: SOP BAL-4100
Analyte: As(III)

Sample	Result	Units
B242946-BLK1	0.00	µg/L
B242946-BLK2	0.00	µg/L
B242946-BLK3	0.00	µg/L
B242946-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.004
MRL: 0.021

Analyte: As(V)

Sample	Result	Units
B242946-BLK1	0.00	µg/L
B242946-BLK2	0.00	µg/L
B242946-BLK3	0.00	µg/L
B242946-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.010
MRL: 0.021

Analyte: DMAs

Sample	Result	Units
B242946-BLK1	0.00	µg/L
B242946-BLK2	0.00	µg/L
B242946-BLK3	0.00	µg/L
B242946-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.005
MRL: 0.021

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Project ID: EUR-SV2201
PM: Amy Goodall

Client PM: David Fuller
Client Project: 680-258577-1

Method Blanks & Reporting Limits

Analyte: MMAs

Sample	Result	Units
B242946-BLK1	0.00	µg/L
B242946-BLK2	0.00	µg/L
B242946-BLK3	0.00	µg/L
B242946-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.004
MRL: 0.021

Analyte: Unk As Sp

Sample	Result	Units
B242946-BLK1	0.00	µg/L
B242946-BLK2	0.00	µg/L
B242946-BLK3	0.00	µg/L
B242946-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.005
MRL: 0.021

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Sample Containers

Lab ID: 2411201-01 **Report Matrix:** Water **Collected:** 11/12/2024
Sample: MCM-INW-01 (680-258577-1) **Sample Type:** Sample **Received:** 11/15/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201
B	XTRA_VOL	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201

Comments: Misprinted the labels. Home location should be WIR-S07

Lab ID: 2411201-02 **Report Matrix:** Water **Collected:** 11/12/2024
Sample: MCM-MCM-06 (680-258577-2) **Sample Type:** Sample **Received:** 11/15/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201
B	XTRA_VOL	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201

Comments: Misprinted the labels. Home location should be WIR-S07

Lab ID: 2411201-03 **Report Matrix:** Water **Collected:** 11/12/2024
Sample: MCM-PT-01 (680-258577-3) **Sample Type:** Sample **Received:** 11/15/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201
B	XTRA_VOL	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201

Comments: Misprinted the labels. Home location should be WIR-S07

Lab ID: 2411201-04 **Report Matrix:** Water **Collected:** 11/13/2024
Sample: MCM-PT-02 (680-258577-4) **Sample Type:** Sample **Received:** 11/15/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201
B	XTRA_VOL	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201

Comments: Misprinted the labels. Home location should be WIR-S07

13751 Lake City Way NE, Suite 108, Seattle, WA 98125 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Sample Containers

Lab ID: 2411201-05 **Report Matrix:** Water **Collected:** 11/12/2024
Sample: MCM-PT-03 (680-258577-5) **Sample Type:** Sample **Received:** 11/15/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201
B	XTRA_VOL	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201

Comments: Misprinted the labels. Home location should be WIR-S07

Lab ID: 2411201-06 **Report Matrix:** Water **Collected:** 11/12/2024
Sample: MCM-DR-01 (680-258577-6) **Sample Type:** Sample **Received:** 11/15/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201
B	XTRA_VOL	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201

Comments: Misprinted the labels. Home location should be WIR-S07

Lab ID: 2411201-07 **Report Matrix:** Water **Collected:** 11/13/2024
Sample: MCM-DR-02 (680-258577-7) **Sample Type:** Sample **Received:** 11/15/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201
B	XTRA_VOL	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201

Comments: Misprinted the labels. Home location should be WIR-S07

Lab ID: 2411201-08 **Report Matrix:** Water **Collected:** 11/12/2024
Sample: MCM-DR-03 (680-258577-8) **Sample Type:** Sample **Received:** 11/15/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201
B	XTRA_VOL	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201

Comments: Misprinted the labels. Home location should be WIR-S07

Project ID: EUR-SV2201
PM: Amy Goodall

Client PM: David Fuller
Client Project: 680-258577-1

Sample Containers

Lab ID: 2411201-09
Sample: MCM-AP1-FD-01 (680-258577-9)
Report Matrix: Water
Sample Type: Sample
Collected: 11/12/2024
Received: 11/15/2024

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201
B	XTRA_VOL	10 mL	24-0086	EDTA (vial)	n/a	n/a	Cooler - 2411201

Comments: Misprinted the labels. Home location should be WIR-S07

Shipping Containers

Cooler - 2411201

Received: November 15, 2024 10:00
Tracking No: 4260 4475 3264 via FedEx
Coolant Type: Ice
Temperature: 5.9 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: R-IR-3

Custody seals present? No
Custody seals intact? No
COC present? Yes

13751 Lake City Way NE, Suite 108, Seattle, WA 98125 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

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: 680-788067.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 1
Company: Brooks Applied Labs LLC		Accreditations Required (See note): State - Georgia		Job #: 680-258577-1
Address: 13751 Lake City Way NE, Suite 108,	Due Date Requested: 12/4/2024			Preservation Codes: -
City: Seattle	TAT Requested (days): N/A			
State, Zip: WA, 98125				
Phone: N/A	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Plant McManus	Project #: 68027841			
Site: N/A	SSOW#: N/A			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)	SUB (Metals Speciation)	Total Number of containers	Special Instructions/Note:
			Preservation Code						
MCM-INW-01 (680-258577-1)	11/12/24	15:15 Eastern	G	Water			X	2	
MCM-MCM-06 (680-258577-2)	11/12/24	10:26 Eastern	G	Water			X	2	
MCM-PT-01 (680-258577-3)	11/12/24	12:54 Eastern	G	Water			X	2	
MCM-PT-02 (680-258577-4)	11/13/24	09:47 Eastern	G	Water			X	2	
MCM-PT-03 (680-258577-5)	11/12/24	12:30 Eastern	G	Water			X	2	
MCM-DR-01 (680-258577-6)	11/12/24	15:35 Eastern	G	Water			X	2	
MCM-DR-02 (680-258577-7)	11/13/24	09:58 Eastern	G	Water			X	2	
MCM-DR-03 (680-258577-8)	11/12/24	10:29 Eastern	G	Water			X	2	
MCM-AP1-FD-01 (680-258577-9)	11/12/24	Eastern	G	Water			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:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/14/24 1515		BAL	11/15/24 1000	BAL
Relinquished by:	Date/Time:	Company	Received by:	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

Chain-of-Custody Form

BROOKS APPLIED LABS

Ship samples to:
13751 Lake City Way NE, Suite 108
Seattle, WA 98125

For BAL use only
Received by: _____ *Date:* _____
Work Order ID: _____ *Time:* _____
Project ID: _____

Client: Southern Company
Contact: David Fuller
Client Project ID: _____
Samples Collected By: Resolute Env. / William Lacker / Jay Stewart

PO Number: _____
Phone: (908) 797-0335
Email: natalie.piparo@resoluteenv.com

Mailing Address: 1003 Weatherstone Parkway Suite 320
Woodstock, GA 30188
Email Receipt Confirmation? (Yes/No)
BAL PM: _____

Requested TAT (business days)
- ☐ 20 (standard)
- ☐ 15*
- ☐ 10*
- ☐ 5*
- ☐ Other ____

*Surcharges may apply to expedited TATs

	Sample ID	Collection: Date	Collection: Time	Client Sample Info: Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl / HNO_3 / Other	BAL Analyses Required: Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) (InOrg, III), V), MMA, DMA)	Se Species (specify) Se(IV), Se(VI), SeCN, Uknown	Filtration	Other (specify)	Other (specify)	Comments: Specify Here
1	MCM-INW-01	11/12/24	1515	WG	2	Y					X					
2	MCM-MCM-06	11/12/24	1026	WG	2	Y					X					
3	MCM-PT-01	11/12/24	1254	WG	2	Y					X					
4	MCM-PT-02	11/13/24	0947	WG	2	Y					X					
5	MCM-PT-03	11/12/24	1230	WG	2	Y					X					
6	MCM-DR-01	11/12/24	1535	WG	2	Y					X					
7	MCM-DR-02	11/13/24	0958	WG	2	Y					X					
8	MCM-DR-03	11/12/24	1029	WG	2	Y					X					
9	MCM-API-FD-01	11/12/24	—	WG	2	Y					X					
10																
	Trip Blank															

680-258577 Chain of Custody

Relinquished By:	Date: 11/13/24	Time: 1330	Relinquished By: / Date: / Time:
Received By: FedEx	Date: 11/13/24	Time: 1330	Total Number of Packages:

Page 1 of 1
List Hazardous Contaminants: _____

EET Fuight 11/14/24 948 0.1/0.1

samples@brooksapplied.com | brooksapplied.com

12/10/2024

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-258577-1

Login Number: 258577

List Source: Eurofins Savannah

List Number: 1

Creator: Faught, Timothy

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 8/30/2024 4:51:50 PM

JOB DESCRIPTION

Plant McManus Dike 1-Week Sampling August 2024

JOB NUMBER

680-255316-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

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

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8/30/2024 4:51:50 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Client: Southern Company
Job ID: 680-255316-1
Project/Site: Plant McManus Dike 1-Week Sampling August 2024

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: 680-255316-1
Project/Site: Plant McManus Dike 1-Week Sampling August 2024

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-255316-1	MCM-MCM-06	Water	08/28/24 15:34	08/29/24 11:59
680-255316-2	MCM-PT-01	Water	08/28/24 14:10	08/29/24 11:59
680-255316-3	MCM-PT-02	Water	08/28/24 10:12	08/29/24 11:59
680-255316-4	MCM-PT-03	Water	08/27/24 15:10	08/29/24 11:59
680-255316-5	MCM-DR-01	Water	08/28/24 11:46	08/29/24 11:59
680-255316-6	MCM-DR-02	Water	08/27/24 16:30	08/29/24 11:59
680-255316-7	MCM-DR-03	Water	08/27/24 10:22	08/29/24 11:59
680-255316-8	MCM-AP1-FD-01	Water	08/27/24 00:00	08/29/24 11:59
680-255316-9	MCM-AP1-FB-01	Water	08/27/24 17:30	08/29/24 11:59
680-255316-10	MCM-AP1-EB-01	Water	08/27/24 17:36	08/29/24 11:59
680-255316-11	MCM-INW-01	Water	08/27/24 12:12	08/29/24 11:59

Job ID: 680-255316-1 Eurofins Savannah

Job Narrative
680-255316-1

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 8/29/2024 11:59 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 2.4°C.

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: 680-255316-1
Project/Site: Plant McManus Dike 1-Week Sampling August 2024

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-255316-1
Date Collected: 08/28/24 15:34
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	42		0.81	0.81	mg/L			08/30/24 12:51	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-255316-2
Date Collected: 08/28/24 14:10
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	23		0.81	0.81	mg/L			08/30/24 12:51	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-255316-3
Date Collected: 08/28/24 10:12
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	18		0.81	0.81	mg/L			08/30/24 12:51	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-255316-4
Date Collected: 08/27/24 15:10
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	9.9		0.83	0.83	mg/L			08/30/24 12:51	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-255316-5
Date Collected: 08/28/24 11:46
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	31		0.81	0.81	mg/L			08/30/24 12:51	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-255316-6
Date Collected: 08/27/24 16:30
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	35		0.81	0.81	mg/L			08/30/24 12:51	1

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-255316-7
Date Collected: 08/27/24 10:22
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	11		0.81	0.81	mg/L			08/30/24 12:51	1

Client: Southern Company
Job ID: 680-255316-1
Project/Site: Plant McManus Dike 1-Week Sampling August 2024

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-255316-8
Date Collected: 08/27/24 00:00
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**13**		0.81	0.81	mg/L			08/30/24 12:51	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-255316-9
Date Collected: 08/27/24 17:30
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			08/30/24 12:51	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-255316-10
Date Collected: 08/27/24 17:36
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			08/30/24 12:51	1

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-255316-11
Date Collected: 08/27/24 12:12
Matrix: Water
Date Received: 08/29/24 11:59

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**9.6**		0.81	0.81	mg/L			08/30/24 12:51	1

Client: Southern Company
Job ID: 680-255316-1
Project/Site: Plant McManus Dike 1-Week Sampling August 2024

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-854013/1
Matrix: Water
Analysis Batch: 854013
Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			08/30/24 12:51	1

Lab Sample ID: LCS 680-854013/2
Matrix: Water
Analysis Batch: 854013
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	11.7		mg/L		117	75 - 125		

Lab Sample ID: LCSD 680-854013/3
Matrix: Water
Analysis Batch: 854013
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
Sulfide			10.0	11.5		mg/L		115	75 - 125	2	30

Lab Sample ID: 680-255316-4 MS
Matrix: Water
Analysis Batch: 854013
Client Sample ID: MCM-PT-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	9.9		6.94	17.9		mg/L		114	75 - 125		

Lab Sample ID: 680-255316-4 MSD
Matrix: Water
Analysis Batch: 854013
Client Sample ID: MCM-PT-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	9.9		6.94	17.9		mg/L		114	75 - 125	0	30

Lab Sample ID: 680-255316-2 DU
Matrix: Water
Analysis Batch: 854013
Client Sample ID: MCM-PT-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	23			23.9		mg/L				3	30

QC Association Summary

Client: Southern Company
Job ID: 680-255316-1
Project/Site: Plant McManus Dike 1-Week Sampling August 2024

General Chemistry

Analysis Batch: 854013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-255316-1	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-255316-2	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-255316-3	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-255316-4	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-255316-5	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-255316-6	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-255316-7	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-255316-8	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
680-255316-9	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-255316-10	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
680-255316-11	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
MB 680-854013/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-854013/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-854013/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-255316-4 MS	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-255316-4 MSD	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-255316-2 DU	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-255316-1
Project/Site: Plant McManus Dike 1-Week Sampling August 2024

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-255316-1
Date Collected: 08/28/24 15:34
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-255316-2
Date Collected: 08/28/24 14:10
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-255316-3
Date Collected: 08/28/24 10:12
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-255316-4
Date Collected: 08/27/24 15:10
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-255316-5
Date Collected: 08/28/24 11:46
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-255316-6
Date Collected: 08/27/24 16:30
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-255316-1
Project/Site: Plant McManus Dike 1-Week Sampling August 2024

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-255316-7
Date Collected: 08/27/24 10:22
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-255316-8
Date Collected: 08/27/24 00:00
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-255316-9
Date Collected: 08/27/24 17:30
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-255316-10
Date Collected: 08/27/24 17:36
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	854013	08/30/24 12:51	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-255316-11
Date Collected: 08/27/24 12:12
Matrix: Water
Date Received: 08/29/24 11:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	854013	08/30/24 12:51	JAS	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: 680-255316-1
Project/Site: Plant McManus Dike 1-Week Sampling August 2024

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Job ID: 680-255316-1
Project/Site: Plant McManus Dike 1-Week Sampling August 2024

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

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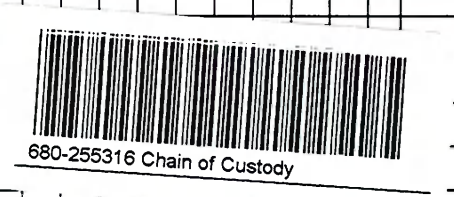
Client Information	Sampler: Jay Siewert, Natalie Piparo (Resolute Env)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:	Analysis Requested		Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			Preservation Codes:
City: Atlanta	TAT Requested (days): Standard			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, Y - Trizma, Z - other (specify)
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			Other:
Project Name: Plant McManus Dike 1-Week Sampling August 2024	Project #:			
Site:	SSOW#:			Task_Code: MCM-CCR-CA-20240826

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				CB		
MCM-MCM-06	8/28/24	1534	G	WG	N		X		
MCM-PT-01	8/28/24	1410	G	WG	N		X		
MCM-PT-02	8/28/24	1012	G	WG	N		X		
MCM-PT-03	8/27/24	1510	G	WG	N		X		
MCM-DR-01	8/28/24	1146	G	WG	N		X		
MCM-DR-02	8/27/24	1630	G	WG	N		X		
MCM-DR-03	8/27/24	1022	G	WG	N		X		
MCM-AP1-FD-01	8/22/24	—	G	WG	N		X		
MCM-AP1-FB-01	8/27/24	1735	G	WG	N		X		
MCM-AP1-EB-01	8/27/24	1736	G	WQ	N		X		
MCM-INW-01	8/27/24	1212	G	WQ	N		X		



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
	8/29/24 1159			8/29/24 1159	
Relinquished by:	Date/Time:	Company	Received by:	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:
		2.4/2.4

Plant McManus Performance Monitoring Sampling Week 1				
Task Code: MCM-CCR-CA-20240826				
Location Code/Label	**Sample Code**	**Matrix Code**	**Sulfide[3] (SM4500)**	**As Speciation[1] (IC-ICP-MS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X	
Extra 1				
Extra 2				

[1]As speciation to be analyzed by Brooks through Eurofins

[3]Sulfide samples to be analyzed by Eurofins

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-255316-1

Login Number: 255316

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 9/11/2024 8:34:20 AM

JOB DESCRIPTION

Plant McManus Performance Monitoring 2-Week Sept

JOB NUMBER

680-255624-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

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
9/11/2024 8:34:20 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-255624-1
Project/Site: Plant McManus Performance Monitoring 2-Week
Sept

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: 680-255624-1
Project/Site: Plant McManus Performance Monitoring 2-Week
Sept

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-255624-1	MCM-INW-01	Water	09/05/24 11:46	09/06/24 10:34
680-255624-2	MCM-MCM-06	Water	09/05/24 15:38	09/06/24 10:34
680-255624-3	MCM-PT-01	Water	09/05/24 09:25	09/06/24 10:34
680-255624-4	MCM-PT-02	Water	09/05/24 14:17	09/06/24 10:34
680-255624-5	MCM-PT-03	Water	09/05/24 14:22	09/06/24 10:34
680-255624-6	MCM-DR-01	Water	09/05/24 11:39	09/06/24 10:34
680-255624-7	MCM-DR-02	Water	09/05/24 15:54	09/06/24 10:34
680-255624-8	MCM-DR-03	Water	09/05/24 09:22	09/06/24 10:34
680-255624-9	MCM-AP1-FD-01	Water	09/05/24 00:00	09/06/24 10:34
680-255624-10	MCM-AP1-FB-01	Water	09/05/24 16:48	09/06/24 10:34
680-255624-11	MCM-AP1-EB-01	Water	09/05/24 16:58	09/06/24 10:34

Job ID: 680-255624-1 Eurofins Savannah

Job Narrative
680-255624-1

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 9/6/2024 10:35 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 1.4°C.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Southern Company
Job ID: 680-255624-1
Project/Site: Plant McManus Performance Monitoring 2-Week
Sept

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-255624-1
Date Collected: 09/05/24 11:46
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	11		0.81	0.81	mg/L			09/10/24 13:15	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-255624-2
Date Collected: 09/05/24 15:38
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	42		0.81	0.81	mg/L			09/10/24 13:15	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-255624-3
Date Collected: 09/05/24 09:25
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	20		0.81	0.81	mg/L			09/10/24 13:15	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-255624-4
Date Collected: 09/05/24 14:17
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	13		0.81	0.81	mg/L			09/10/24 13:15	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-255624-5
Date Collected: 09/05/24 14:22
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	12		0.81	0.81	mg/L			09/10/24 13:15	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-255624-6
Date Collected: 09/05/24 11:39
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	24		0.81	0.81	mg/L			09/10/24 13:15	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-255624-7
Date Collected: 09/05/24 15:54
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	30		0.81	0.81	mg/L			09/10/24 13:15	1

Client Sample Results

Client: Southern Company
Job ID: 680-255624-1
Project/Site: Plant McManus Performance Monitoring 2-Week
Sept

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-255624-8
Date Collected: 09/05/24 09:22
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**12**		0.81	0.81	mg/L			09/10/24 13:15	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-255624-9
Date Collected: 09/05/24 00:00
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**12**		0.81	0.81	mg/L			09/10/24 13:15	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-255624-10
Date Collected: 09/05/24 16:48
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			09/10/24 13:15	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-255624-11
Date Collected: 09/05/24 16:58
Matrix: Water
Date Received: 09/06/24 10:34

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			09/10/24 13:15	1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-855208/1
Matrix: Water
Analysis Batch: 855208

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			09/10/24 13:15	1

Lab Sample ID: LCS 680-855208/2
Matrix: Water
Analysis Batch: 855208

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.14		mg/L		91	75 - 125		

Lab Sample ID: LCSD 680-855208/3
Matrix: Water
Analysis Batch: 855208

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
Sulfide			10.0	9.06		mg/L		91	75 - 125	1	30

Lab Sample ID: 680-255624-3 MS
Matrix: Water
Analysis Batch: 855208

Client Sample ID: MCM-PT-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	20		6.50	27.0		mg/L		108	75 - 125		

Lab Sample ID: 680-255624-3 MSD
Matrix: Water
Analysis Batch: 855208

Client Sample ID: MCM-PT-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	20		6.50	27.0		mg/L		108	75 - 125	0	30

Lab Sample ID: 680-255624-1 DU
Matrix: Water
Analysis Batch: 855208

Client Sample ID: MCM-INW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	11			11.2		mg/L				0.9	30

QC Association Summary

Client: Southern Company
Job ID: 680-255624-1
Project/Site: Plant McManus Performance Monitoring 2-Week
Sept

General Chemistry

Analysis Batch: 855208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-255624-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-255624-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-255624-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-255624-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-255624-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-255624-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-255624-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-255624-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-255624-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
680-255624-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-255624-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-855208/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-855208/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-855208/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-255624-3 MS	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-255624-3 MSD	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-255624-1 DU	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-255624-1
Project/Site: Plant McManus Performance Monitoring 2-Week
Sept

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-255624-1
Date Collected: 09/05/24 11:46
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-255624-2
Date Collected: 09/05/24 15:38
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-255624-3
Date Collected: 09/05/24 09:25
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-255624-4
Date Collected: 09/05/24 14:17
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-255624-5
Date Collected: 09/05/24 14:22
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-255624-6
Date Collected: 09/05/24 11:39
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-255624-1
Project/Site: Plant McManus Performance Monitoring 2-Week
Sept

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-255624-7
Date Collected: 09/05/24 15:54
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-255624-8
Date Collected: 09/05/24 09:22
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-255624-9
Date Collected: 09/05/24 00:00
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-255624-10
Date Collected: 09/05/24 16:48
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	855208	09/10/24 13:15	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-255624-11
Date Collected: 09/05/24 16:58
Matrix: Water
Date Received: 09/06/24 10:34

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	855208	09/10/24 13:15	JAS	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: 680-255624-1
Project/Site: Plant McManus Performance Monitoring 2-Week Sept

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Job ID: 680-255624-1
Project/Site: Plant McManus Performance Monitoring 2-Week
Sept

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

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Client Information	Sampler: Kevin Stephenson, Natalie Piparo (Resolute Env)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:	Analysis Requested		Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date 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, Y - Trizma, Z - other (specify), Other:
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Performance Monitoring 2-Week Sampling September 2024	Project #:			
Site:	SSOW#:			Task_Code: MCM-CCR-CA-20240902

680-255624 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				CB		
MCM-INW-01	9/5/24	1146	G	WG	N		X	2	
MCM-MCM-06	9/5/24	1538	G	WG	N		X	2	
MCM-PT-01	9/5/24	0925	G	WG	N		X	2	
MCM-PT-02	9/5/24	1417	G	WG	N		X	2	
MCM-PT-03	9/5/24	1422	G	WG	N		X	2	
MCM-DR-01	9/5/24	1139	G	WG	N		X	2	
MCM-DR-02	9/5/24	1554	G	WG	N		X	2	
MCM-DR-03	9/5/24	0922	G	WG	N		X	2	
MCM-AP1-FD-01	9/5/24	—	G	WG	N		X	2	
MCM-AP1-FB-01	9/5/24	1648	G	WQ	N		X	2	
MCM-AP1-EB-01	9/5/24	1658	G	WQ	N		X	2	

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	[signature]	9/6/24 @ 1034				
2				[signature]		
3				[signature]	9/6/24 1034	Eurofins

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.4/1.4

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-255624-1

Login Number: 255624
List Number: 1
Creator: Lincoln, Alyssa

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 9/20/2024 1:32:17 PM

JOB DESCRIPTION

Plant McManus Performance Monitoring 3-Week Sept

JOB NUMBER

680-255934-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

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

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week
Sept

Qualifiers

General Chemistry

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: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week Sept

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-255934-1	MCM-INW-01	Water	09/12/24 12:10	09/13/24 10:12
680-255934-2	MCM-MCM-06	Water	09/12/24 10:12	09/13/24 10:12
680-255934-3	MCM-PT-01	Water	09/12/24 11:57	09/13/24 10:12
680-255934-4	MCM-PT-02	Water	09/12/24 14:31	09/13/24 10:12
680-255934-5	MCM-PT-03	Water	09/12/24 13:50	09/13/24 10:12
680-255934-6	MCM-DR-01	Water	09/12/24 13:24	09/13/24 10:12
680-255934-7	MCM-DR-02	Water	09/12/24 15:08	09/13/24 10:12
680-255934-8	MCM-DR-03	Water	09/12/24 10:47	09/13/24 10:12
680-255934-9	MCM-AP1-FD-01	Water	09/12/24 00:00	09/13/24 10:12
680-255934-10	MCM-AP1-FB-01	Water	09/12/24 13:10	09/13/24 10:12
680-255934-11	MCM-AP1-EB-01	Water	09/12/24 13:14	09/13/24 10:12

Job ID: 680-255934-1 Eurofins Savannah

Job Narrative
680-255934-1

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 9/13/2024 10:12 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 4.1°C.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week
Sept

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-255934-1
Date Collected: 09/12/24 12:10
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	2.8		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-255934-2
Date Collected: 09/12/24 10:12
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	47		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-255934-3
Date Collected: 09/12/24 11:57
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	24		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-255934-4
Date Collected: 09/12/24 14:31
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	25		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-255934-5
Date Collected: 09/12/24 13:50
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	13		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-255934-6
Date Collected: 09/12/24 13:24
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	27		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-255934-7
Date Collected: 09/12/24 15:08
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	33		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample Results

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week
Sept

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-255934-8
Date Collected: 09/12/24 10:47
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**11**		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-255934-9
Date Collected: 09/12/24 00:00
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**24**		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-255934-10
Date Collected: 09/12/24 13:10
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			09/19/24 11:23	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-255934-11
Date Collected: 09/12/24 13:14
Matrix: Water
Date Received: 09/13/24 10:12

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			09/19/24 11:23	1

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week
Sept

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-856653/1
Matrix: Water
Analysis Batch: 856653

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			09/19/24 11:23	1

Lab Sample ID: LCS 680-856653/2
Matrix: Water
Analysis Batch: 856653

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.80		mg/L		98	75 - 125		

Lab Sample ID: LCSD 680-856653/3
Matrix: Water
Analysis Batch: 856653

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
Sulfide			10.0	9.75		mg/L		98	75 - 125	0	30

Lab Sample ID: 680-255934-2 MS
Matrix: Water
Analysis Batch: 856653

Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	47		6.50	48.3	4	mg/L		25	75 - 125		

Lab Sample ID: 680-255934-2 MSD
Matrix: Water
Analysis Batch: 856653

Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	47		6.50	48.3	4	mg/L		25	75 - 125	0	30

Lab Sample ID: 680-255934-1 DU
Matrix: Water
Analysis Batch: 856653

Client Sample ID: MCM-INW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	2.8			2.68		mg/L				5	30

QC Association Summary

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week Sept

General Chemistry

Analysis Batch: 856653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-255934-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-255934-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-255934-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-255934-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-255934-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-255934-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-255934-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-255934-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-255934-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
680-255934-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-255934-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-856653/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-856653/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-856653/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-255934-2 MS	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-255934-2 MSD	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-255934-1 DU	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week Sept

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-255934-1
Date Collected: 09/12/24 12:10
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-255934-2
Date Collected: 09/12/24 10:12
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-255934-3
Date Collected: 09/12/24 11:57
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-255934-4
Date Collected: 09/12/24 14:31
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-255934-5
Date Collected: 09/12/24 13:50
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-255934-6
Date Collected: 09/12/24 13:24
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week Sept

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-255934-7
Date Collected: 09/12/24 15:08
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-255934-8
Date Collected: 09/12/24 10:47
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-255934-9
Date Collected: 09/12/24 00:00
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-255934-10
Date Collected: 09/12/24 13:10
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-255934-11
Date Collected: 09/12/24 13:14
Matrix: Water
Date Received: 09/13/24 10:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	856653	09/19/24 11:23	JAS	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: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week Sept

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Job ID: 680-255934-1
Project/Site: Plant McManus Performance Monitoring 3-Week Sept

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

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Client Information	Sampler: Kevin Stephenson, Natalie Piparo, Jay Siewert, William Lasker (Resolute Env)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:	Analysis Requested		Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date 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, Y - Trizma, Z - other (specify), Other:
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Performance Monitoring 3-Week Sampling September 2024	Project #:			
Site:	SSOW#:			Task_Code: MCM-CCR-CA-20240909

680-255934 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total	Special Instructions/Note:
			Preservation Code:				CB		
MCM-INW-01	9/12/24	1210	G	WG	N		X	2	
MCM-MCM-06	9/12/24	1012	G	WG	N		X	2	
MCM-PT-01	9/12/24	1157	G	WG	N		X	2	
MCM-PT-02	9/12/24	1431	G	WG	N		X	2	
MCM-PT-03	9/12/24	1350	G	WG	N		X	2	
MCM-DR-01	9/12/24	1324	G	WG	N		X	2	
MCM-DR-02	9/12/24	1558	G	WG	N		X	2	
MCM-DR-03	9/12/24	1047	G	WG	N		X	2	
MCM-AP1-FD-01	9/12/24	—	G	WG	N		X	2	
MCM-AP1-FB-01	9/12/24	1310	G	WQ	N		X	2	
MCM-AP1-EB-01	9/12/24	1314	G	WQ	N		X	2	

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
FedEx 9/12/24 1640					
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9/13/24 1012	Company ECHOFIELD

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.1/4.1

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-255934-1

Login Number: 255934

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 9/24/2024 8:54:26 AM

JOB DESCRIPTION

Plant McManus Performance Monitoring 4-Week Sept

JOB NUMBER

680-256211-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

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
9/24/2024 8:54:26 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-256211-1
Project/Site: Plant McManus Performance Monitoring 4-Week
Sept

Qualifiers

General Chemistry

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: 680-256211-1
Project/Site: Plant McManus Performance Monitoring 4-Week
Sept

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-256211-1	MCM-INW-01	Water	09/17/24 12:22	09/19/24 10:11
680-256211-2	MCM-MCM-06	Water	09/17/24 11:56	09/19/24 10:11
680-256211-3	MCM-PT-01	Water	09/17/24 10:02	09/19/24 10:11
680-256211-4	MCM-PT-02	Water	09/17/24 15:37	09/19/24 10:11
680-256211-5	MCM-PT-03	Water	09/17/24 15:50	09/19/24 10:11
680-256211-6	MCM-DR-01	Water	09/18/24 11:07	09/19/24 10:11
680-256211-7	MCM-DR-02	Water	09/18/24 09:58	09/19/24 10:11
680-256211-8	MCM-DR-03	Water	09/17/24 10:35	09/19/24 10:11
680-256211-9	MCM-AP1-FD-01	Water	09/17/24 00:00	09/19/24 10:11
680-256211-10	MCM-AP1-FB-01	Water	09/18/24 12:58	09/19/24 10:11
680-256211-11	MCM-AP1-EB-01	Water	09/18/24 13:08	09/19/24 10:11

Job ID: 680-256211-1 Eurofins Savannah

Job Narrative
680-256211-1

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 9/19/2024 10:11 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 2.7°C.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Southern Company
Job ID: 680-256211-1
Project/Site: Plant McManus Performance Monitoring 4-Week
Sept

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-256211-1
Date Collected: 09/17/24 12:22
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	2.7		0.81	0.81	mg/L			09/23/24 14:14	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-256211-2
Date Collected: 09/17/24 11:56
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	43		0.81	0.81	mg/L			09/23/24 14:14	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-256211-3
Date Collected: 09/17/24 10:02
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	21		0.81	0.81	mg/L			09/23/24 14:14	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-256211-4
Date Collected: 09/17/24 15:37
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	17		0.81	0.81	mg/L			09/23/24 14:14	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-256211-5
Date Collected: 09/17/24 15:50
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	16		0.81	0.81	mg/L			09/23/24 14:14	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-256211-6
Date Collected: 09/18/24 11:07
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	23		0.81	0.81	mg/L			09/23/24 14:14	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-256211-7
Date Collected: 09/18/24 09:58
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	8.5		0.81	0.81	mg/L			09/23/24 14:14	1

Client Sample Results

Client: Southern Company
Job ID: 680-256211-1
Project/Site: Plant McManus Performance Monitoring 4-Week
Sept

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-256211-8
Date Collected: 09/17/24 10:35
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	12		0.81	0.81	mg/L			09/23/24 14:14	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-256211-9
Date Collected: 09/17/24 00:00
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	18		0.81	0.81	mg/L			09/23/24 14:14	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-256211-10
Date Collected: 09/18/24 12:58
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			09/23/24 14:14	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-256211-11
Date Collected: 09/18/24 13:08
Matrix: Water
Date Received: 09/19/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	0.84		0.81	0.81	mg/L			09/23/24 14:14	1

Client: Southern Company
Job ID: 680-256211-1
Project/Site: Plant McManus Performance Monitoring 4-Week
Sept

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-857190/1
Matrix: Water
Analysis Batch: 857190

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			09/23/24 14:14	1

Lab Sample ID: LCS 680-857190/2
Matrix: Water
Analysis Batch: 857190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.48		mg/L		95	75 - 125		

Lab Sample ID: LCSD 680-857190/3
Matrix: Water
Analysis Batch: 857190

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
Sulfide			10.0	9.85		mg/L		98	75 - 125	4	30

Lab Sample ID: 680-256211-2 MS
Matrix: Water
Analysis Batch: 857190

Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	43		6.50	47.5	4	mg/L		75	75 - 125		

Lab Sample ID: 680-256211-2 MSD
Matrix: Water
Analysis Batch: 857190

Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	43		6.50	47.5	4	mg/L		75	75 - 125	0	30

Lab Sample ID: 680-256211-1 DU
Matrix: Water
Analysis Batch: 857190

Client Sample ID: MCM-INW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	2.7			2.92		mg/L				8	30

QC Association Summary

Client: Southern Company
Job ID: 680-256211-1
Project/Site: Plant McManus Performance Monitoring 4-Week
Sept

General Chemistry

Analysis Batch: 857190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256211-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-256211-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-256211-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-256211-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-256211-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-256211-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-256211-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-256211-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-256211-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
680-256211-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-256211-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-857190/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-857190/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-857190/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-256211-2 MS	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-256211-2 MSD	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-256211-1 DU	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-256211-1
Project/Site: Plant McManus Performance Monitoring 4-Week
Sept

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-256211-1
Date Collected: 09/17/24 12:22
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-256211-2
Date Collected: 09/17/24 11:56
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-256211-3
Date Collected: 09/17/24 10:02
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-256211-4
Date Collected: 09/17/24 15:37
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-256211-5
Date Collected: 09/17/24 15:50
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-256211-6
Date Collected: 09/18/24 11:07
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-256211-1
Project/Site: Plant McManus Performance Monitoring 4-Week
Sept

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-256211-7
Date Collected: 09/18/24 09:58
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-256211-8
Date Collected: 09/17/24 10:35
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-256211-9
Date Collected: 09/17/24 00:00
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-256211-10
Date Collected: 09/18/24 12:58
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-256211-11
Date Collected: 09/18/24 13:08
Matrix: Water
Date Received: 09/19/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	857190	09/23/24 14:14	JAS	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: 680-256211-1
Project/Site: Plant McManus Performance Monitoring 4-Week
Sept

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Job ID: 680-256211-1
Project/Site: Plant McManus Performance Monitoring 4-Week
Sept

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

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Client Information	Sampler: Jay Siewert, Natalie Piparo, William Laaker, Kevin Stephenson	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:			Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Performance Monitoring 4-Week Sampling September 2024	Project #:			
Site:	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, Other:
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, Y - Trizma, Z - other (specify)

Task_Code: MCM-CCR-CA-20240916

Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total Number of containers
			Preservation Code:				CB	
MCM-INW-01	9/17/24	1222	G	WG	N		X	2
MCM-MCM-06	9/17/24	1156	G	WG	N		X	2
MCM-PT-01	9/17/24	1003	G	WG	N		X	2
MCM-PT-02	9/17/24	1537	G	WG	N		X	2
MCM-PT-03	9/17/24	1550	G	WG	N		X	2
MCM-DR-01	9/18/24	1107	G	WG	N		X	2
MCM-DR-02	9/18/24	0958	G	WG	N		X	2
MCM-DR-03	9/17/24	1035	G	WG	N		X	2
MCM-AP1-FD-01	9/17/24	—	G	WG	N		X	2
MCM-AP1-FB-01	9/18/24	1258	G	WQ	N		X	2
MCM-AP1-EB-01	9/18/24	1308	G	WQ	N		X	2

680-256211 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		9/18/24 1420	Resolute	Fed Ex	9/19/24	
2					9/19/24 1011	
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.7/2.7

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-256211-1

Login Number: 256211

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 10/17/2024 9:06:12 AM

JOB DESCRIPTION

Plant McManus Performance Monitoring 6 Week Oct.

JOB NUMBER

680-256774-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

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
10/17/2024 9:06:12 AM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-256774-1
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

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: 680-256774-1
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-256774-1	MCM-INW-01	Water	10/02/24 10:16	10/03/24 20:10
680-256774-2	MCM-MCM-06	Water	10/01/24 11:10	10/03/24 20:10
680-256774-3	MCM-PT-01	Water	10/01/24 12:58	10/03/24 20:10
680-256774-4	MCM-PT-02	Water	10/02/24 10:12	10/03/24 20:10
680-256774-5	MCM-PT-03	Water	10/01/24 13:36	10/03/24 20:10
680-256774-6	MCM-DR-01	Water	10/01/24 16:43	10/03/24 20:10
680-256774-7	MCM-DR-02	Water	10/01/24 16:37	10/03/24 20:10
680-256774-8	MCM-DR-03	Water	10/01/24 11:47	10/03/24 20:10
680-256774-9	MCM-AP1-FD-01	Water	10/01/24 00:00	10/03/24 20:10
680-256774-10	MCM-AP1-FB-01	Water	10/02/24 07:55	10/03/24 20:10
680-256774-11	MCM-AP1-EB-01	Water	10/02/24 08:02	10/03/24 20:10

Job ID: 680-256774-1 Eurofins Savannah

Job Narrative
680-256774-1

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.

Project Manager Comments
These samples were transferred up to Eurofins Atlanta by lab courier due to lingering affects caused by Hurricane Helene on the facility's power at the Savannah laboratory.

Receipt
The samples were received on 10/3/2024 8:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Southern Company
Job ID: 680-256774-1
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-256774-1
Date Collected: 10/02/24 10:16
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<1.0		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-256774-2
Date Collected: 10/01/24 11:10
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	67		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-256774-3
Date Collected: 10/01/24 12:58
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	36		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-256774-4
Date Collected: 10/02/24 10:12
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	35		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-256774-5
Date Collected: 10/01/24 13:36
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	31		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-256774-6
Date Collected: 10/01/24 16:43
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	40		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-256774-7
Date Collected: 10/01/24 16:37
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	64		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Client Sample Results

Client: Southern Company
Job ID: 680-256774-1
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-256774-8
Date Collected: 10/01/24 11:47
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<1.0		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-256774-9
Date Collected: 10/01/24 00:00
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**68**		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-256774-10
Date Collected: 10/02/24 07:55
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<1.0		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-256774-11
Date Collected: 10/02/24 08:02
Matrix: Water
Date Received: 10/03/24 20:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<1.0		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

Job ID: 680-256774-1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 705-15542/1-A
Matrix: Water
Analysis Batch: 15792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15542

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L		10/07/24 14:23	10/08/24 16:21	1

Lab Sample ID: LCS 705-15542/2-A
Matrix: Water
Analysis Batch: 15792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15542

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	16.4	16.4		mg/L		100	90 - 110

Lab Sample ID: 680-256774-1 MS
Matrix: Water
Analysis Batch: 15792

Client Sample ID: MCM-INW-01
Prep Type: Total/NA
Prep Batch: 15542

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<1.0		16.4	18.4		mg/L		112	80 - 120

Lab Sample ID: 680-256774-1 MSD
Matrix: Water
Analysis Batch: 15792

Client Sample ID: MCM-INW-01
Prep Type: Total/NA
Prep Batch: 15542

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<1.0		16.4	18.0		mg/L		110	80 - 120	2	20

QC Association Summary

Client: Southern Company
Job ID: 680-256774-1
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

General Chemistry

Prep Batch: 15542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256774-1	MCM-INW-01	Total/NA	Water	SM 4500 S2 C	
680-256774-2	MCM-MCM-06	Total/NA	Water	SM 4500 S2 C	
680-256774-3	MCM-PT-01	Total/NA	Water	SM 4500 S2 C	
680-256774-4	MCM-PT-02	Total/NA	Water	SM 4500 S2 C	
680-256774-5	MCM-PT-03	Total/NA	Water	SM 4500 S2 C	
680-256774-6	MCM-DR-01	Total/NA	Water	SM 4500 S2 C	
680-256774-7	MCM-DR-02	Total/NA	Water	SM 4500 S2 C	
680-256774-8	MCM-DR-03	Total/NA	Water	SM 4500 S2 C	
680-256774-9	MCM-AP1-FD-01	Total/NA	Water	SM 4500 S2 C	
680-256774-10	MCM-AP1-FB-01	Total/NA	Water	SM 4500 S2 C	
680-256774-11	MCM-AP1-EB-01	Total/NA	Water	SM 4500 S2 C	
MB 705-15542/1-A	Method Blank	Total/NA	Water	SM 4500 S2 C	
LCS 705-15542/2-A	Lab Control Sample	Total/NA	Water	SM 4500 S2 C	
680-256774-1 MS	MCM-INW-01	Total/NA	Water	SM 4500 S2 C	
680-256774-1 MSD	MCM-INW-01	Total/NA	Water	SM 4500 S2 C	

Analysis Batch: 15792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-256774-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	15542
680-256774-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	15542
680-256774-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	15542
680-256774-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	15542
680-256774-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	15542
680-256774-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	15542
680-256774-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	15542
680-256774-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	15542
680-256774-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	15542
680-256774-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	15542
680-256774-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	15542
MB 705-15542/1-A	Method Blank	Total/NA	Water	4500 S2 F-2011	15542
LCS 705-15542/2-A	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	15542
680-256774-1 MS	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	15542
680-256774-1 MSD	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	15542

Lab Chronicle

Client: Southern Company
Job ID: 680-256774-1
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-256774-1
Date Collected: 10/02/24 10:16
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-256774-2
Date Collected: 10/01/24 11:10
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-256774-3
Date Collected: 10/01/24 12:58
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-256774-4
Date Collected: 10/02/24 10:12
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-256774-5
Date Collected: 10/01/24 13:36
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Job ID: 680-256774-1
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-256774-6
Date Collected: 10/01/24 16:43
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-256774-7
Date Collected: 10/01/24 16:37
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-256774-8
Date Collected: 10/01/24 11:47
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-256774-9
Date Collected: 10/01/24 00:00
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-256774-10
Date Collected: 10/02/24 07:55
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Job ID: 680-256774-1
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-256774-11

Date Collected: 10/02/24 08:02
Matrix: Water
Date Received: 10/03/24 20:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SM 4500 S2 C			50 mL	50 mL	15542	10/07/24 14:23	GD	EET ATL
Total/NA	Analysis	4500 S2 F-2011		1			15792	10/08/24 16:21	GD	EET ATL
	Instrument ID: NOEQUIP									

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-256774-1
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

Laboratory: Eurofins Atlanta

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
AIHA LAP, LLC	Environmental Lead Laboratory Accreditation Program (ELLAP)	LAP-100671	11-01-25
AIHA LAP, LLC	Industrial Hygiene Laboratory Accreditation Program (IHLAP)	LAP-100671	11-01-25
Florida	NELAP	E87582	06-30-25
Georgia	State	E87582	06-30-25
Georgia (DW)	State	800	04-25-26
Kentucky (UST)	State	123046	06-30-25
North Carolina (WW/SW)	State	562	12-31-24
South Carolina	State	98016	06-30-25

Method Summary

Client: Southern Company
Job ID: 680-256774-1
Project/Site: Plant McManus Performance Monitoring 6 Week Oct.

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET ATL
SM 4500 S2 C	Sulfide, Sample Pretreatment/Concentration	SM	EET ATL

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

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Client Information	Sampler: Kevin Stephenson, Natalie Pipero, Jay Siewert (Resolute Env)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:			Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus 6 Week Sampling October 2024	Project #:			
Site:	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, Y - Trizma, Z - other (specify)
Other:

Task_Code: MCM-CCR-CA-20240930

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				CB		
MCM-INW-01	10/02/24	1016	G	WG	N		X	2	
MCM-MCM-06	10/01/24	1110	G	WG	N		X	2	
MCM-PT-01	10/01/24	1258	G	WG	N		X	2	
MCM-PT-02	10/02/24	1012	G	WG	N		X	2	
MCM-PT-03	10/01/24	1336	G	WG	N		X	2	
MCM-DR-01	10/01/24	1643	G	WG	N		X	2	
MCM-DR-02	10/01/24	1637	G	WG	N		X	2	
MCM-DR-03	10/01/24	1147	G	WG	N		X	2	
MCM-AP1-FD-01	10/01/24	—	G	WG	N		X	2	
MCM-AP1-FB-01	10/02/24	0755	G	WQ	N		X	2	
MCM-AP1-EB-01	10/02/24	0802	G	WQ	N		X	2	

680-256774 COC

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
[signature] ~~10/2/24 13:00~~	10/2/24 13:00	Resolute	Fed Ex		
[signature]	10-3 810	[illegible]	[signature]	10-3 550	[illegible]
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			[signature]	10/3/24 20:10	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		1.9°#2645

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-256774-1

Login Number: 256774
List Number: 2
Creator: Smith, Brittany

List Source: Eurofins Atlanta
List Creation: 10/07/24 11:28 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 10/22/2024 6:05:26 PM

JOB DESCRIPTION

Plant McManus Performance Monitoring 8 Week Oct.

JOB NUMBER

680-257288-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

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
10/22/2024 6:05:26 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-257288-1
Project/Site: Plant McManus Performance Monitoring 8 Week Oct.

Qualifiers

General Chemistry

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: 680-257288-1
Project/Site: Plant McManus Performance Monitoring 8 Week Oct.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-257288-1	MCM-INW-01	Water	10/15/24 14:11	10/17/24 10:09
680-257288-2	MCM-MCM-06	Water	10/15/24 11:41	10/17/24 10:09
680-257288-3	MCM-PT-01	Water	10/15/24 09:55	10/17/24 10:09
680-257288-4	MCM-PT-02	Water	10/15/24 16:01	10/17/24 10:09
680-257288-5	MCM-PT-03	Water	10/15/24 16:46	10/17/24 10:09
680-257288-6	MCM-DR-01	Water	10/15/24 14:18	10/17/24 10:09
680-257288-7	MCM-DR-02	Water	10/16/24 10:16	10/17/24 10:09
680-257288-8	MCM-DR-03	Water	10/15/24 10:31	10/17/24 10:09
680-257288-9	MCM-AP1-FD-01	Water	10/15/24 00:00	10/17/24 10:09
680-257288-10	MCM-AP1-FB-01	Water	10/16/24 08:30	10/17/24 10:09
680-257288-11	MCM-AP1-EB-01	Water	10/16/24 08:41	10/17/24 10:09

Job ID: 680-257288-1 Eurofins Savannah

Job Narrative
680-257288-1

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 10/17/2024 10:09 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 4.3°C.

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: 680-257288-1
Project/Site: Plant McManus Performance Monitoring 8 Week Oct.

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-257288-1
Date Collected: 10/15/24 14:11
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.83		0.83	0.83	mg/L			10/21/24 16:23	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-257288-2
Date Collected: 10/15/24 11:41
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	40		0.83	0.83	mg/L			10/21/24 16:23	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-257288-3
Date Collected: 10/15/24 09:55
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	21		0.83	0.83	mg/L			10/21/24 16:24	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-257288-4
Date Collected: 10/15/24 16:01
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	15		0.83	0.83	mg/L			10/21/24 16:24	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-257288-5
Date Collected: 10/15/24 16:46
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	26		0.83	0.83	mg/L			10/21/24 16:24	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-257288-6
Date Collected: 10/15/24 14:18
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	24		0.83	0.83	mg/L			10/21/24 16:24	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-257288-7
Date Collected: 10/16/24 10:16
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	27		0.83	0.83	mg/L			10/21/24 16:24	1

Client Sample Results

Client: Southern Company
Job ID: 680-257288-1
Project/Site: Plant McManus Performance Monitoring 8 Week Oct.

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-257288-8
Date Collected: 10/15/24 10:31
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	4.2		0.83	0.83	mg/L			10/21/24 16:24	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-257288-9
Date Collected: 10/15/24 00:00
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	4.2		0.83	0.83	mg/L			10/21/24 16:24	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-257288-10
Date Collected: 10/16/24 08:30
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			10/22/24 12:39	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-257288-11
Date Collected: 10/16/24 08:41
Matrix: Water
Date Received: 10/17/24 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			10/22/24 12:39	1

Client: Southern Company
Job ID: 680-257288-1
Project/Site: Plant McManus Performance Monitoring 8 Week Oct.

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-860529/1
Matrix: Water
Analysis Batch: 860529
Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			10/21/24 16:23	1

Lab Sample ID: LCS 680-860529/2
Matrix: Water
Analysis Batch: 860529
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	10.0	9.08		mg/L		91	75 - 125

Lab Sample ID: LCSD 680-860529/3
Matrix: Water
Analysis Batch: 860529
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
Sulfide	10.0	9.01		mg/L		90	75 - 125	1	30

Lab Sample ID: 680-257288-2 MS
Matrix: Water
Analysis Batch: 860529
Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	40		6.94	46.3	4	mg/L		89	75 - 125

Lab Sample ID: 680-257288-2 MSD
Matrix: Water
Analysis Batch: 860529
Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	40		6.94	46.3	4	mg/L		89	75 - 125	0	30

Lab Sample ID: 680-257288-1 DU
Matrix: Water
Analysis Batch: 860529
Client Sample ID: MCM-INW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	<0.83		<0.83		mg/L		NC	30

Lab Sample ID: MB 680-860659/1
Matrix: Water
Analysis Batch: 860659
Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			10/22/24 12:39	1

Method: 4500 S2 F-2011 - Sulfide, Total (Continued)

Lab Sample ID: LCS 680-860659/2
Matrix: Water
Analysis Batch: 860659

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	8.87		mg/L		89	75 - 125		

Lab Sample ID: LCSD 680-860659/3
Matrix: Water
Analysis Batch: 860659

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
Sulfide			10.0	8.95		mg/L		90	75 - 125	1	30

Lab Sample ID: 680-257288-11 MS
Matrix: Water
Analysis Batch: 860659

Client Sample ID: MCM-AP1-EB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	<0.81		6.50	5.24		mg/L		81	75 - 125		

Lab Sample ID: 680-257288-11 MSD
Matrix: Water
Analysis Batch: 860659

Client Sample ID: MCM-AP1-EB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<0.81		6.50	5.24		mg/L		81	75 - 125	0	30

Lab Sample ID: 680-257288-10 DU
Matrix: Water
Analysis Batch: 860659

Client Sample ID: MCM-AP1-FB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	<0.81			<0.81		mg/L				NC	30

QC Association Summary

Client: Southern Company
Job ID: 680-257288-1
Project/Site: Plant McManus Performance Monitoring 8 Week Oct.

General Chemistry

Analysis Batch: 860529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257288-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-257288-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-257288-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-257288-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-257288-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-257288-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-257288-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-257288-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-257288-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
MB 680-860529/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-860529/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-860529/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-257288-2 MS	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-257288-2 MSD	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-257288-1 DU	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 860659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257288-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-257288-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-860659/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-860659/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-860659/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-257288-11 MS	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
680-257288-11 MSD	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
680-257288-10 DU	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-257288-1
Project/Site: Plant McManus Performance Monitoring 8 Week Oct.

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-257288-1
Date Collected: 10/15/24 14:11
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	860529	10/21/24 16:23	AF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-257288-2
Date Collected: 10/15/24 11:41
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	860529	10/21/24 16:23	AF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-257288-3
Date Collected: 10/15/24 09:55
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	860529	10/21/24 16:24	AF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-257288-4
Date Collected: 10/15/24 16:01
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	860529	10/21/24 16:24	AF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-257288-5
Date Collected: 10/15/24 16:46
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	860529	10/21/24 16:24	AF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-257288-6
Date Collected: 10/15/24 14:18
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	860529	10/21/24 16:24	AF	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-257288-1
Project/Site: Plant McManus Performance Monitoring 8 Week Oct.

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-257288-7
Date Collected: 10/16/24 10:16
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	860529	10/21/24 16:24	AF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-257288-8
Date Collected: 10/15/24 10:31
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	860529	10/21/24 16:24	AF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-257288-9
Date Collected: 10/15/24 00:00
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	860529	10/21/24 16:24	AF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-257288-10
Date Collected: 10/16/24 08:30
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	860659	10/22/24 12:39	AF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-257288-11
Date Collected: 10/16/24 08:41
Matrix: Water
Date Received: 10/17/24 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	860659	10/22/24 12:39	AF	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: 680-257288-1
Project/Site: Plant McManus Performance Monitoring 8 Week Oct.

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Job ID: 680-257288-1
Project/Site: Plant McManus Performance Monitoring 8 Week Oct.

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

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Environment Testing

Client Information	Sampler: Jay Siewert, Natalie Piparo, Kevin Stephenson (Resolute Env)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:			Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Performance Monitoring 8-Week Sampling October 2024	Project #:			
Site:	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, Y Trizma, Z other (specify)
Other:

Task_Code: MCM-CCR-CA-20241014
Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_S2_F Sulfide (FILL COMPLETELY)	Total Number of containers
			Preservation Code:				CB	
MCM-INW-01	10/15/24	411	G	WG	N		X	2
MCM-MCM-06	10/15/24	1141	G	WG	N		X	2
MCM-PT-01	10/15/24	0955	G	WG	N		X	2
MCM-PT-02	10/15/24	1601	G	WG	N		X	2
MCM-PT-03	10/15/24	1640	G	WG	N		X	2
MCM-DR-01	10/15/24	1418	G	WG	N		X	2
MCM-DR-02	10/16/24	1016	G	WG	N		X	2
MCM-DR-03	10/15/24	1031	G	WG	N		X	2
MCM-AP1-FD-01	10/15/24	—	G	WG	N		X	2
MCM-AP1-FB-01	10/16/24	0830	G	WQ	N		X	2
MCM-AP1-EB-01	10/16/24	0841	G	WQ	N		X	2

680-257288 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
		10/16/24 1206	Resolute	FedEx		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10/17/24 1009	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: 4.3/4.3

Plant McManus Performance Monitoring Sampling Week 8				
Task Code: MCM-CCR-CA-20241014				
Location Code/Label	**Sample Code**	**Matrix Code**	**Sulfide[3] (SM4500)**	**As Speciation[1] (IC-ICP-MS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X	
Extra 1			X	
Extra 2			X	

[1]As speciation to be analyzed by Brooks through Eurofins

[3]Sulfide samples to be analyzed by Eurofins

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-257288-1

Login Number: 257288

List Source: Eurofins Savannah

List Number: 1

Creator: Johnson, Corey M

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

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JOB DESCRIPTION

Plant McManus Performance Monitoring 10 Week Oct.

JOB NUMBER

680-257942-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Job Notes

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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

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-257942-1
Project/Site: Plant McManus Performance Monitoring 10 Week
Oct.

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: 680-257942-1
Project/Site: Plant McManus Performance Monitoring 10 Week Oct.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-257942-1	MCM-INW-01	Water	10/29/24 11:52	10/31/24 10:11
680-257942-2	MCM-MCM-06	Water	10/29/24 09:46	10/31/24 10:11
680-257942-3	MCM-PT-01	Water	10/29/24 15:36	10/31/24 10:11
680-257942-4	MCM-PT-02	Water	10/29/24 14:08	10/31/24 10:11
680-257942-5	MCM-PT-03	Water	10/29/24 14:33	10/31/24 10:11
680-257942-6	MCM-DR-01	Water	10/29/24 11:21	10/31/24 10:11
680-257942-7	MCM-DR-02	Water	10/29/24 16:12	10/31/24 10:11
680-257942-8	MCM-DR-03	Water	10/29/24 09:35	10/31/24 10:11
680-257942-9	MCM-AP1-FD-01	Water	10/29/24 00:00	10/31/24 10:11
680-257942-10	MCM-AP1-FB-01	Water	10/30/24 08:17	10/31/24 10:11
680-257942-11	MCM-AP1-EB-01	Water	10/30/24 08:21	10/31/24 10:11

Job ID: 680-257942-1 Eurofins Savannah

Job Narrative
680-257942-1

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 10/31/2024 10:11 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 4.1°C.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Southern Company
Job ID: 680-257942-1
Project/Site: Plant McManus Performance Monitoring 10 Week Oct.

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-257942-1
Date Collected: 10/29/24 11:52
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/01/24 10:46	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-257942-2
Date Collected: 10/29/24 09:46
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	35		0.81	0.81	mg/L			11/01/24 10:46	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-257942-3
Date Collected: 10/29/24 15:36
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	15		0.81	0.81	mg/L			11/01/24 10:46	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-257942-4
Date Collected: 10/29/24 14:08
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	13		0.81	0.81	mg/L			11/01/24 10:46	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-257942-5
Date Collected: 10/29/24 14:33
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	16		0.81	0.81	mg/L			11/01/24 10:46	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-257942-6
Date Collected: 10/29/24 11:21
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	18		0.81	0.81	mg/L			11/01/24 10:46	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-257942-7
Date Collected: 10/29/24 16:12
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	28		0.81	0.81	mg/L			11/01/24 10:46	1

Client Sample Results

Client: Southern Company
Job ID: 680-257942-1
Project/Site: Plant McManus Performance Monitoring 10 Week
Oct.

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-257942-8
Date Collected: 10/29/24 09:35
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**3.1**		0.81	0.81	mg/L			11/01/24 10:46	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-257942-9
Date Collected: 10/29/24 00:00
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**19**		0.81	0.81	mg/L			11/01/24 10:46	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-257942-10
Date Collected: 10/30/24 08:17
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/01/24 10:46	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-257942-11
Date Collected: 10/30/24 08:21
Matrix: Water
Date Received: 10/31/24 10:11

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/01/24 10:46	1

Client: Southern Company
Job ID: 680-257942-1
Project/Site: Plant McManus Performance Monitoring 10 Week Oct.

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-862422/1
Matrix: Water
Analysis Batch: 862422
Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			11/01/24 10:46	1

Lab Sample ID: LCS 680-862422/2
Matrix: Water
Analysis Batch: 862422
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.12		mg/L		91	75 - 125		

Lab Sample ID: LCSD 680-862422/3
Matrix: Water
Analysis Batch: 862422
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
Sulfide			10.0	9.02		mg/L		90	75 - 125	1	30

Lab Sample ID: 680-257942-6 MS
Matrix: Water
Analysis Batch: 862422
Client Sample ID: MCM-DR-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	18		6.50	24.1		mg/L		93	75 - 125		

Lab Sample ID: 680-257942-6 MSD
Matrix: Water
Analysis Batch: 862422
Client Sample ID: MCM-DR-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	18		6.50	24.1		mg/L		93	75 - 125	0	30

Lab Sample ID: 680-257843-I-1 DU
Matrix: Water
Analysis Batch: 862422
Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	<0.81			<0.81		mg/L				NC	30

QC Association Summary

Client: Southern Company
Job ID: 680-257942-1
Project/Site: Plant McManus Performance Monitoring 10 Week Oct.

General Chemistry

Analysis Batch: 862422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-257942-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-257942-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-257942-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-257942-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-257942-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-257942-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-257942-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-257942-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-257942-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
680-257942-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-257942-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-862422/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-862422/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-862422/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-257942-6 MS	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-257942-6 MSD	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-257843-I-1 DU	Duplicate	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-257942-1
Project/Site: Plant McManus Performance Monitoring 10 Week Oct.

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-257942-1
Date Collected: 10/29/24 11:52
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-257942-2
Date Collected: 10/29/24 09:46
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-257942-3
Date Collected: 10/29/24 15:36
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-257942-4
Date Collected: 10/29/24 14:08
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-257942-5
Date Collected: 10/29/24 14:33
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-257942-6
Date Collected: 10/29/24 11:21
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-257942-1
Project/Site: Plant McManus Performance Monitoring 10 Week Oct.

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-257942-7
Date Collected: 10/29/24 16:12
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-257942-8
Date Collected: 10/29/24 09:35
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-257942-9
Date Collected: 10/29/24 00:00
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-257942-10
Date Collected: 10/30/24 08:17
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-257942-11
Date Collected: 10/30/24 08:21
Matrix: Water
Date Received: 10/31/24 10:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	862422	11/01/24 10:46	NVF	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: 680-257942-1
Project/Site: Plant McManus Performance Monitoring 10 Week Oct.

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Job ID: 680-257942-1
Project/Site: Plant McManus Performance Monitoring 10 Week Oct.

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

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Client Information	Sampler: Natalie Piparo, Jay Stewart (Resolute Env)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:	Analysis Requested		Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date 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, Y - Trizma, Z - other (specify), Other:
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus 10 Week Sampling October 2024	Project #:			Task_Code: MCM-CCR-CA-20241028
Site: Plant McManus	SSOW#:			Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total Number of containers
			Preservation Code:		X		CB	X
MCM-INW-01	10/29/24	1152	G	WG	N		X	2
MCM-MCM-06	10/29/24	0946	G	WG	N		X	2
MCM-PT-01	10/29/24	1536	G	WG	N		X	2
MCM-PT-02	10/29/24	1408	G	WG	N		X	2
MCM-PT-03	10/29/24	1433	G	WG	N		X	2
MCM-DR-01	10/29/24	1121	G	WG	N		X	2
MCM-DR-02	10/29/24	1612	G	WG	N		X	2
MCM-DR-03	10/29/24	0935	G	WG	N		X	2
MCM-AP1-FD-01	10/29/24	—	G	WG	N		X	2
MCM-AP1-FB-01	10/30/24	0817	G	WQ	N		X	2
MCM-AP1-EB-01	10/30/24	0821	G	WQ	N		X	2

680-257942 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:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Jay Stewart	10/30/24 0945	Resolute	FedEx	10/30/24 0945	FedEx
Relinquished by:	Date/Time:	Company	Received by:	10-31-24 1011	
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: 4.1/4.1

Plant McManus Performance Monitoring Sampling Week 10			
Task Code: MCM-CCR-CA-20241028			
Location Code/Label	**Sample Code**	**Matrix Code**	**Sulfide[3] (SM4500)**
MCM-INW-01	MCM-INW-01-WG-	WG	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X
MCM-PT-01	MCM-PT-01-WG-	WG	X
MCM-PT-02	MCM-PT-02-WG-	WG	X
MCM-PT-03	MCM-PT-03-WG-	WG	X
MCM-DR-01	MCM-DR-01-WG-	WG	X
MCM-DR-02	MCM-DR-02-WG-	WG	X
MCM-DR-03	MCM-DR-03-WG-	WG	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X
Extra 1			X
Extra 2			X

[3]Sulfide samples to be analyzed by Eurofins

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-257942-1

Login Number: 257942

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 11/20/2024 6:03:35 PM

JOB DESCRIPTION

Plant McManus Performance Monitoring 12 Week Dec.

JOB NUMBER

680-258574-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

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

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11/20/2024 6:03:35 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Client: Southern Company
Job ID: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week
Dec.

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: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week
Dec.

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-258574-1	MCM-INW-01	Water	11/12/24 15:15	11/14/24 09:48
680-258574-2	MCM-MCM-06	Water	11/12/24 10:26	11/14/24 09:48
680-258574-3	MCM-PT-01	Water	11/12/24 12:54	11/14/24 09:48
680-258574-4	MCM-PT-02	Water	11/13/24 09:47	11/14/24 09:48
680-258574-5	MCM-PT-03	Water	11/12/24 12:30	11/14/24 09:48
680-258574-6	MCM-DR-01	Water	11/12/24 15:35	11/14/24 09:48
680-258574-7	MCM-DR-02	Water	11/13/24 09:58	11/14/24 09:48
680-258574-8	MCM-DR-03	Water	11/12/24 10:29	11/14/24 09:48
680-258574-9	MCM-AP1-FD-01	Water	11/12/24 00:00	11/14/24 09:48
680-258574-10	MCM-AP1-FB-01	Water	11/13/24 11:34	11/14/24 09:48
680-258574-11	MCM-AP1-EB-01	Water	11/13/24 11:23	11/14/24 09:48

Job ID: 680-258574-1 Eurofins Savannah

Job Narrative
680-258574-1

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 11/14/2024 9:48 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Southern Company
Job ID: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week
Dec.

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-258574-1
Date Collected: 11/12/24 15:15
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	1.8		0.81	0.81	mg/L			11/18/24 13:25	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-258574-2
Date Collected: 11/12/24 10:26
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	36		0.81	0.81	mg/L			11/18/24 13:25	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-258574-3
Date Collected: 11/12/24 12:54
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	20		0.81	0.81	mg/L			11/18/24 13:25	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-258574-4
Date Collected: 11/13/24 09:47
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	13		0.81	0.81	mg/L			11/18/24 13:25	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-258574-5
Date Collected: 11/12/24 12:30
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	18		0.81	0.81	mg/L			11/18/24 13:25	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-258574-6
Date Collected: 11/12/24 15:35
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	23		0.81	0.81	mg/L			11/18/24 13:25	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-258574-7
Date Collected: 11/13/24 09:58
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	33		0.81	0.81	mg/L			11/18/24 13:25	1

Client Sample Results

Client: Southern Company
Job ID: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week
Dec.

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-258574-8
Date Collected: 11/12/24 10:29
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**9.4**		0.81	0.81	mg/L			11/18/24 13:25	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-258574-9
Date Collected: 11/12/24 00:00
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**40**		0.81	0.81	mg/L			11/18/24 13:25	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-258574-10
Date Collected: 11/13/24 11:34
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/20/24 08:56	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-258574-11
Date Collected: 11/13/24 11:23
Matrix: Water
Date Received: 11/14/24 09:48

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			11/20/24 08:56	1

Client: Southern Company
Job ID: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week
Dec.

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-865037/1
Matrix: Water
Analysis Batch: 865037
Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			11/18/24 13:25	1

Lab Sample ID: LCS 680-865037/2
Matrix: Water
Analysis Batch: 865037
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	8.74		mg/L		87	75 - 125		

Lab Sample ID: LCSD 680-865037/3
Matrix: Water
Analysis Batch: 865037
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
Sulfide			10.0	9.16		mg/L		92	75 - 125	5	30

Lab Sample ID: 680-258683-C-15 MS
Matrix: Water
Analysis Batch: 865037
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		
Sulfide	<0.81		6.50	7.19		mg/L		111	75 - 125		

Lab Sample ID: 680-258683-C-15 MSD
Matrix: Water
Analysis Batch: 865037
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
Sulfide	<0.81		6.50	7.57		mg/L		116	75 - 125	5	30

Lab Sample ID: 680-258574-1 DU
Matrix: Water
Analysis Batch: 865037
Client Sample ID: MCM-INW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	1.8			1.65		mg/L				7	30

Lab Sample ID: MB 680-865356/1
Matrix: Water
Analysis Batch: 865356
Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			11/20/24 08:56	1

Client: Southern Company
Job ID: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week
Dec.

Method: 4500 S2 F-2011 - Sulfide, Total (Continued)

Lab Sample ID: LCS 680-865356/2
Matrix: Water
Analysis Batch: 865356

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	8.90		mg/L		89	75 - 125		

Lab Sample ID: LCSD 680-865356/3
Matrix: Water
Analysis Batch: 865356

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
Sulfide			10.0	9.03		mg/L		90	75 - 125	1	30

Lab Sample ID: 680-258723-M-1 MS
Matrix: Water
Analysis Batch: 865356

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		
Sulfide	<0.83		6.94	7.31		mg/L		105	75 - 125		

Lab Sample ID: 680-258723-M-1 MSD
Matrix: Water
Analysis Batch: 865356

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
Sulfide	<0.83		6.94	7.31		mg/L		105	75 - 125	0	30

Lab Sample ID: 680-258574-10 DU
Matrix: Water
Analysis Batch: 865356

Client Sample ID: MCM-AP1-FB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	<0.81			<0.81		mg/L				NC	30

QC Association Summary

Client: Southern Company
Job ID: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week
Dec.

General Chemistry

Analysis Batch: 865037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258574-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-258574-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-258574-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-258574-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-258574-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-258574-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-258574-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-258574-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-258574-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
MB 680-865037/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-865037/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-865037/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-258683-C-15 MS	Matrix Spike	Total/NA	Water	4500 S2 F-2011	
680-258683-C-15 MSD	Matrix Spike Duplicate	Total/NA	Water	4500 S2 F-2011	
680-258574-1 DU	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 865356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-258574-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-258574-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-865356/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-865356/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-865356/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-258723-M-1 MS	Matrix Spike	Total/NA	Water	4500 S2 F-2011	
680-258723-M-1 MSD	Matrix Spike Duplicate	Total/NA	Water	4500 S2 F-2011	
680-258574-10 DU	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week
Dec.

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-258574-1
Date Collected: 11/12/24 15:15
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-258574-2
Date Collected: 11/12/24 10:26
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-258574-3
Date Collected: 11/12/24 12:54
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-258574-4
Date Collected: 11/13/24 09:47
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-258574-5
Date Collected: 11/12/24 12:30
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-258574-6
Date Collected: 11/12/24 15:35
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week
Dec.

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-258574-7
Date Collected: 11/13/24 09:58
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-258574-8
Date Collected: 11/12/24 10:29
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-258574-9
Date Collected: 11/12/24 00:00
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865037	11/18/24 13:25	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-258574-10
Date Collected: 11/13/24 11:34
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865356	11/20/24 08:56	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-258574-11
Date Collected: 11/13/24 11:23
Matrix: Water
Date Received: 11/14/24 09:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	865356	11/20/24 08:56	JAS	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: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week
Dec.

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Job ID: 680-258574-1
Project/Site: Plant McManus Performance Monitoring 12 Week
Dec.

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jay Siewert, Will Laaker (Resolute Env)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:	Analysis Requested		Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Performance Monitoring 12-Week Sampling November 2024	Project #:			
Site: Plant McManus	SSOW#:			

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, Y - Trizma, Z - other (specify), Other:

Task_Code: MCM-CCR-CA-20241111

Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total Number of containers
			Preservation Code:				CB	
MCM-INW-01	11/12/24	1515	G	WG	N		X	2
MCM-MCM-06	11/12/24	1026	G	WG	N		X	2
MCM-PT-01	11/12/24	1254	G	WG	N		X	2
MCM-PT-02	11/13/24	0947	G	WG	N		X	2
MCM-PT-03	11/12/24	1230	G	WG	N		X	2
MCM-DR-01	11/12/24	1535	G	WG	N		X	2
MCM-DR-02	11/13/24	0958	G	WG	N		X	2
MCM-DR-03	11/12/24	1029	G	WG	N		X	2
MCM-AP1-FD-01	11/12/24	—	G	WG	N		X	2
MCM-AP1-FB-01	11/13/24	1134	G	WQ	N		X	2
MCM-AP1-EB-01	11/13/24	1123	G	WQ	N		X	2

680-258574 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	Resolute Env.	11/13/24 1330	Resolute Env	Fedex	11/13/24 1330	Fedex
2					11/14 948	
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.1 / 0.1

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-258574-1

Login Number: 258574

List Source: Eurofins Savannah

List Number: 1

Creator: Faught, Timothy

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	

Appendix B

Well Installation Reports

WELL INSTALLATION REPORT

Plant McManus Former Ash Pond 1
Brunswick, Georgia

August 26, 2022

Well Installation Report

Plant McManus – Former Ash Pond 1
Brunswick, Georgia

August 26, 2022

Prepared By:
Arcadis U.S., Inc.
2839 Paces Ferry Road, Suite 900
Atlanta
Georgia 30339
Phone: 770 431 8666
Fax: 770 435 2666

Prepared For:
Georgia Power Company

Mathew Webb
Senior Geologist

Geoffrey Gay, PE
Technical Expert (Eng)

Professional Engineer Certification

I certify that I am a qualified groundwater scientist in accordance with the Georgia Rules of Solid Waste Management 391-3-4.-01 and 40 CFR Part 258.50(g) who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and have sufficient training and experience in groundwater hydrology and related fields as demonstrated by state registration and completion of accredited university courses that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this report was prepared by me or by a subordinate working under my direction.

8.26.22

J. Geoffrey Gay, P.E.
Technical Expert
Georgia Registration No. 27801

Date

Contents

1 Introduction 1
2 Drilling and Well Installation 1
2.1 Drilling Method 1
2.2 Screened Interval 1
2.3 Well Construction Materials 1
2.3.1 Filter Pack 2
2.3.2 Annular seal 2
2.3.3 Cap and Protective Seal 2
3 Well Development 2
4 Survey 2
5 References 3

Tables

Table 1. Well Completion Details

Figures

Figure 1. Site Map and Compliance Monitoring Well Network

Figure 2. Well Location Map

Appendices

A Well Driller Performance Bond
B Boring Logs and Well Construction Details
C Well Development Logs
D Survey Report

Introduction

This report documents the installation of five piezometers (DR-01, DR-02, PT-01, PT-02, and PT-03) screened at similar depth and lithology to compliance monitoring well MCM-06 and installed in accordance with the Permit No. 063-030D(CCR) groundwater monitoring plan (GWMP). An additional piezometer (PT-04D) was installed across the dike from the existing delineation well DPZ-02 (36 to 41 feet below ground surface [ft bgs]). The piezometers were installed for evaluation of assessment of corrective measures, and additional details will be presented in the upcoming Draft Remedy Selection Report to be submitted to EPD under separate cover in February 2023.

Drilling and Well Installation

The piezometer locations are shown on **Figure 2**. The installation date, location, elevation, screen interval, and designations for the installed wells are provided in the following sections. Boring logs with well construction details are provided in **Appendix A**. A summary of well construction details is provided in **Table 1**.

Drilling Method

The wells were installed by Cascade Environmental under contract with Southern Company Services (SCS) Field Services. Cascade had a current and valid bond with the Water Wells Standards Advisory Council for the state of Georgia at the time of drilling and well installation, provided in **Appendix A**. The well installations were performed under the oversight and direction of a Georgia Registered Professional Engineer with Arcadis. Borehole advancement drilling was completed using rotosonic drilling techniques. A Boart-Longyear Mini Sonic was used to drill the boreholes where the wells were installed. During the drilling, continuous core samples were logged in the field for lithologic properties.

Screened Interval

The DR and PT piezometers were installed with pre-packed well screens, the screen intervals are provided along with the construction details in **Table 1**. The screen was placed near the bottom of the borehole with a flush-threaded PVC end cap placed on the bottom of each screen to provide a 0.4-foot sump/sediment trap. DR piezometers were constructed with 15 ft wells screens (16-31 ft bgs) to have the capability to support potential pilot study activities as part of assessment of corrective measures and remedy selection process.

Well Construction Materials

The piezometers were designed and constructed to: (1) allow sufficient groundwater flow to the well for sampling; (2) minimize the passage of formation materials (turbidity) into the wells; and (3) ensure sufficient structural integrity to prevent collapse of the well. The wells were constructed of 2-inch inside diameter Schedule 40 polyvinyl chloride (PVC) casing affixed to a dual-wall slotted U-Pack® PVC screen. The U-Pack® well screens consist of a 3-inch diameter outer PVC well screen and a 2-inch centralized inner PVC well screen in one integrated unit. Factory slotted 0.010-inch screens were used. The construction materials are ink-free, National Science Foundation (NSF) approved, and do not contain glues or solvents. The casing and screen sections are flush-threaded (ASTM-F-480).

Filter Pack

Following placement of the well screen and casing, the annular space around the screen and casing was filled with Southern Products and Silica 20/30 filter pack sand from the base of the borehole 2 to 3 feet above the top of the screen, followed by 2 to 3 more feet of a Standard Sand & Silica Co. fine sand (30/65 filter sand). Approximately 7.5 50-lb bags of filter sand were used for DR-01 and DR-02 each; four bags were used for PT-04D; and 5.5 bags were used for PT-01, PT-02, and PT-03.

After placing the filter pack and prior to installing the annular seal, the well was pumped for at least 30 minutes to ensure proper settlement of the filter pack. Prior to installing the annular seal, the depth to the filter pack was remeasured to ensure a minimum of two feet was present above the screen. Well construction and boring logs are provided in **Appendix B**.

Annular seal

An annular seal composed of non-coated, bentonite pellets was placed on top of the filter pack by slowly pouring the material down the borehole and tamping it into place with a tremie pipe. Bentonite pellets were placed from the top of the fine sand extending up to approximately 5 ft bgs in order to prevent grout contamination into the water-bearing zone. Approximately 1.5 50-lb bucket of bentonite pellets were placed in each well except for PT-04D where approximately seven 50-lb buckets were used. The bentonite was allowed hydrate and the remainder of the annular space was then filled with neat Portland Cement up to ground surface. Approximately 6.2 gallons of cement grout was used in each piezometer.

Cap and Protective Seal

At the surface, the well casings were secured with a locking J-plug cap within a 6-inch flush mounted, steel manhole cover in a 2-foot by 2-foot concrete pad. Pea gravel was placed inside the protective casing between the riser pipe and the outer casing. The protective cap guards the casing from damage and the locking cap serves as a security device to prevent well tampering.

Well Development

The newly installed piezometers were initially developed using a combination of surging and pumping with a Proactive Tornado submersible pump to minimize turbidity during groundwater sampling by Resolute Environmental & Water Resources Consulting. Turbidity, pH, temperature, and conductivity measurements ensured that the well was fully developed. Final turbidity measurements following development were less than 10 NTUs. The development forms are included in **Appendix C**.

Survey

The vertical and horizontal locations were surveyed by Jackson Surveying, Inc. Horizontal survey locations are relative to the Georgia State Plane Coordinate System, East Zone, NAD83, US Survey Feet. All horizontal locations meet or exceed an accuracy of 0.5 foot. Vertical elevations are referenced to NAVD88, US Survey Feet and meet an accuracy standard of 0.01 foot. The ground surface was surveyed at the well pad. A survey report is included in **Appendix D.**

References

Arcadis. 2022. 2022 Semiannual Remedy Selection and Design Progress Report, Plant McManus – Former Ash Pond 1, Brunswick, Georgia. July 29, 2022.

Tables

Table 1 - Well Completion Details
Georgia Power Company
Plant McManus
Brunswick, Georgia

Well ID	Installation Date	Northing [1] (feet)	Easting [1] (feet)	Ground Surface Elevation [2]	Top of Casing Elevation [2]	Total Depth (feet bgs)	Screened Interval (feet bgs)	
							Top	Bottom
DR-01	5/26/2022	444,407.62	850,777.93	7.86	7.58	31.0	16.0	31.0
DR-02	5/26/2022	444,411.68	850,784.46	7.90	7.49	31.0	16.0	31.0
PT-01	5/26/2022	444,408.70	850,768.53	7.82	7.49	25.0	15.0	25.0
PT-02	5/31/2022	444,414.19	850,777.91	7.91	7.64	25.0	14.5	24.5
PT-03	6/1/2022	444,418.92	850,785.95	7.93	7.45	25.2	15.2	25.2
PT-04D	5/25/2022	444,400.23	850,753.07	7.80	7.51	41.0	36.0	41.0

Notes:
1 - All horizontal locations surveyed to the Georgia State Plane Coordinate System, East Zone, NAD83
2 - Vertical elevations surveyed relative to NAVD88 (U.S. Survey Feet)

Acronyms & Abbreviations:
bgs - below ground surface
NAD83 - North American Datum of 1983
NAVD88 - North American Vertical Datum of 1988

Figures

Legend

- PROPERTY BOUNDARY
- PERMITTED CCR BOUNDARY
- COMPLIANCE MONITORING WELL
- DELINEATION WELL

0 600 1,200
Feet
1 inch = 600 feet

GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

SITE MAP AND COMPLIANCE MONITORING WELL NETWORK

ARCADIS

FIGURE
1

Legend

- Permitted CCR boundary
- Compliance Monitoring Well
- Delineation Well
- Dewatering Well
- Piezometers

0 20 40

Feet

GEORGIA POWER
PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

WELL LOCATION MAP

ARCADIS

FIGURE
2

Appendix A

Well Driller Performance Bond

Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Deanna M. French, Susan B. Larson, Elizabeth R. Hahn, Jana M. Roy, Scott McGilvray, Mindee L. Rankin, Ronald J. Lange, John R. Claeys, Roger Kaltenbach, Guy Armfield, Scott Fisher, Andrew P. Larsen, Nicholas Fredrickson, William M. Smith, Derek Sabo, Charla M. Boadle**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this twenty-seventh day of April, 2020.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

By _____
Paul J. Brehm, Senior Vice President

STATE OF MINNESOTA
HENNEPIN COUNTY

On this twenty-seventh day of April, 2020, before me personally came Paul J. Brehm, Senior Vice President of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and he acknowledged the execution of the same, and being by me duly sworn, that he is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.

ALISON DWAN NASH-TROUT
NOTARY PUBLIC - MINNESOTA
My Commission Expires
January 31, 2025

_____
Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 12 day of April, 2021.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

This Power of Attorney expires
January 31, 2025

_____
Kara Barrow, Secretary

Please direct bond verifications to surety@intactinsurance.com

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company , Surety upon

a certain Bond No. 800033976

dated effective 09/27/2017
(MONTH-DAY-YEAR)

on behalf of Ricky Davis / Cascade Drilling, L.P.
(PRINCIPAL)

and in favor of Department of Natural Resources, State of Georgia
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on 06/30/2021
(MONTH-DAY-YEAR)

and ending on 06/30/2023
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and 00/100 Dollars ($30,000.00)

Description of bond Performance Bond for Water Well Contractors

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on April 12th , 2021
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By Andrew P. Larsen
Attorney-in-Fact Andrew P. Larsen

Parker, Smith & Feek, Inc.
Agent

2233 112th Ave NE Bellevue, WA 98004
Address of Agent

425-709-3600
Telephone Number of Agent

S-0157/GE 8/08

XDP

Appendix B

Boring Logs and Well Construction Details

ARCADIS

Soil Boring and Construction Log

Boring No.: DR-01

Sheet: 1 of 2

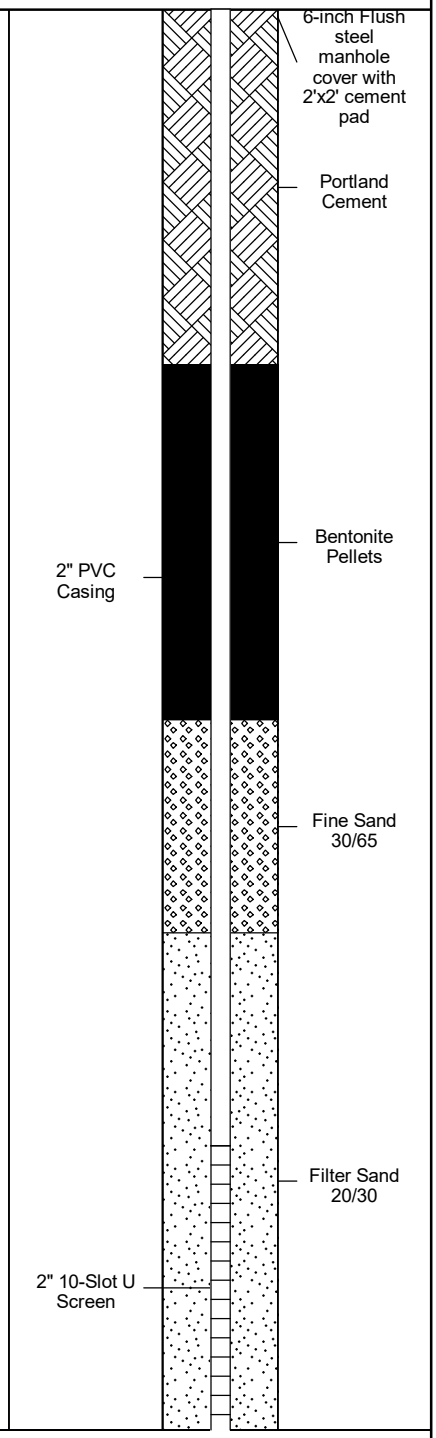
Client Name: McManus
Project Number: 30050105
Project Name: Brunswick, GA

Date Started: 05-26-2022
Date Completed: 05-26-2022
Total Depth: 31.0 ft bgs

Logger: C. Lawson
Reviewer:

Depth (feet)	Sample ID	Rec. (ft)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
0					(0.0-0.5 ft) Gravel.	(0 ft) Drilling fluid of potable water-used approximately 150 gallons
1					(0.5-11 ft) Silty Sand: fine-grained sand (75%), silt (25%), tan to brown; Fill.	
5					(5.0-11 ft) Density soft, no visual porosity.	
11					(11-14.5 ft) Clay: 50% clay, 40% fine-grained sand, 10% silt, consistency firm, moist, no visual porosity, dark gray.	
14.5					(14.5-17 ft) Silty Sand: 60% silt, 20% fine-grained sand, 20% clay, consistency soft, moist, no visual porosity. (15-17 ft) Mixture of silty sand to poorly sorted fine-grained sand, density soft, saturated, no shell fragments, dark gray to black.	
17					(17-31 ft) Poorly Sorted Sand: 95% fine-grained sand, density soft, moist, poor visual porosity, no clay, dark gray to black	

Construction Details



Drilling Company: Cascade Drilling
Driller: J. Reynolds
Drilling Method: Rotosonic
Drill Rig:
Remarks: bgs = below ground surface; ft = feet; PID = photo-ionization detector; ppm = parts per million; Rec. = recovery.

Sampling Method: Sonic Core Barrel
Sampling Dimensions: 5' x 6"
First Encountered Water (ft bgs): NA
Static Water Level (ft bgs): 4.37
Top of Casing Elevation: 7.58
Surface Elevation: 7.86
North Coordinate: 444407.62
East Coordinate: 850777.93

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\MCMANUS\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 8/23/22

ARCADIS

Soil Boring and Construction Log

Boring No.: DR-01

Sheet: 2 of 2

Client Name: McManus
Project Number: 30050105
Project Name: Brunswick, GA

Date Started: 05-26-2022
Date Completed: 05-26-2022
Total Depth: 31.0 ft bgs

Logger: C. Lawson
Reviewer:

Depth (feet)	Sample ID	Rec. (ft)	Blow Counts	Graphic	Description	Drilling Fluid and Notes	Construction Details
21					(17-31 ft) Poorly Sorted Sand: 95% fine-grained sand, density soft, moist, poor visual porosity, no clay, dark gray to black		
22							
23							
24							
25					(25-31 ft) Small shell fragments.		2" 10-Slot U Screen — Filter Sand 20/30
26							
27							
28							
29							
30							
31					31 ft. bgs End of Boring		
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							

Remarks: bgs = below ground surface; ft = feet; PID = photo-ionization detector; ppm = parts per million; Rec. = recovery.

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\MCMANUS\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 8/23/22

ARCADIS

Soil Boring and Construction Log

Boring No.: DR-02

Sheet: 1 of 2

Client Name: McManus
Project Number: 30050105
Project Name: Brunswick, GA

Date Started: 05-26-2022
Date Completed: 05-26-2022
Total Depth: 31.0 ft bgs

Logger: C. Lawson
Reviewer:

Depth (feet)	Sample ID	Rec. (ft)	Blow Counts	Graphic	Description	Drilling Fluid and Notes	Construction Details
0					(0.0-0.5 ft) Gravel.	(0 ft) Drilling fluid of potable water-used approximately 150 gallons	6-inch Flush steel manhole cover with 2'x2' cement pad
1					(0.5-13 ft) Silty Sand: 75% fine-grained sand, 25% silt, density soft, brown to tan, moist to very moist at 5-6 ft; Fill.		Portland Cement
2							
3							
4							
5							
6							
7							Bentonite Pellets
8							2" PVC Casing
9					(9.0-13 ft) Increase to 10% clay.		
10							
11							
12							Fine Sand 30/65
13					(13-15 ft) Clay: 80% clay, consistency firm, moist, no visual porosity, 2.5YR 3/1 dark gray to black.		
14							
15					(15-18 ft) Silty Sand: 60% silt, 20% fine-grained sand, 20% clay, density soft, very moist, no visual porosity, 2.5YR 3/1 dark gray to black.		
16							Filter Sand 20/30
17							
18							2" 10-Slot U Screen
19					(18-31 ft) Poorly Sorted Sand: 90% fine-grained sand, 10% silt, density firm, no visual porosity, 2.5YR 3/1 dark gray to black.		
20							

Drilling Company: Cascade Drilling
Driller: J. Reynolds
Drilling Method: Rotosonic
Drill Rig:
Remarks: bgs = below ground surface; ft = feet; PID = photo-ionization detector; ppm = parts per million; Rec. = recovery.

Sampling Method: Sonic Core Barrel
Sampling Dimensions: 5' x 6"
First Encountered Water (ft bgs): NA
Static Water Level (ft bgs): 4.24
Top of Casing Elevation: 7.49
Surface Elevation: 7.90
North Coordinate: 444411.68
East Coordinate: 850784.46

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\MCMANUS\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 8/23/22

ARCADIS

Soil Boring and Construction Log

Boring No.: DR-02

Sheet: 2 of 2

Client Name: McManus
Project Number: 30050105
Project Name: Brunswick, GA

Date Started: 05-26-2022
Date Completed: 05-26-2022
Total Depth: 31.0 ft bgs

Logger: C. Lawson
Reviewer:

Depth (feet)	Sample ID	Rec. (ft)	Blow Counts	Graphic	Description	Drilling Fluid and Notes	Construction Details
21					(18-31 ft) Poorly Sorted Sand: 90% fine-grained sand, 10% silt, density firm, no visual porosity, 2.5YR 3/1 dark gray to black. (20-25 ft) Density soft, very moist, poor visual porosity, GLEY2 5/1 blueish gray.		
22							
23							
24							
25					(25-31 ft) Increase to 100% fine-grained sand.		2" 10-Slot U Screen — Filter Sand 20/30
26							
27							
28							
29							
30							
31					31 ft. bgs End of Boring		
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							

Remarks: bgs = below ground surface; ft = feet; PID = photo-ionization detector; ppm = parts per million; Rec. = recovery.

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\MCMANUS\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 8/23/22

ARCADIS

Soil Boring and Construction Log

Boring No.: PT-01

Sheet: 1 of 2

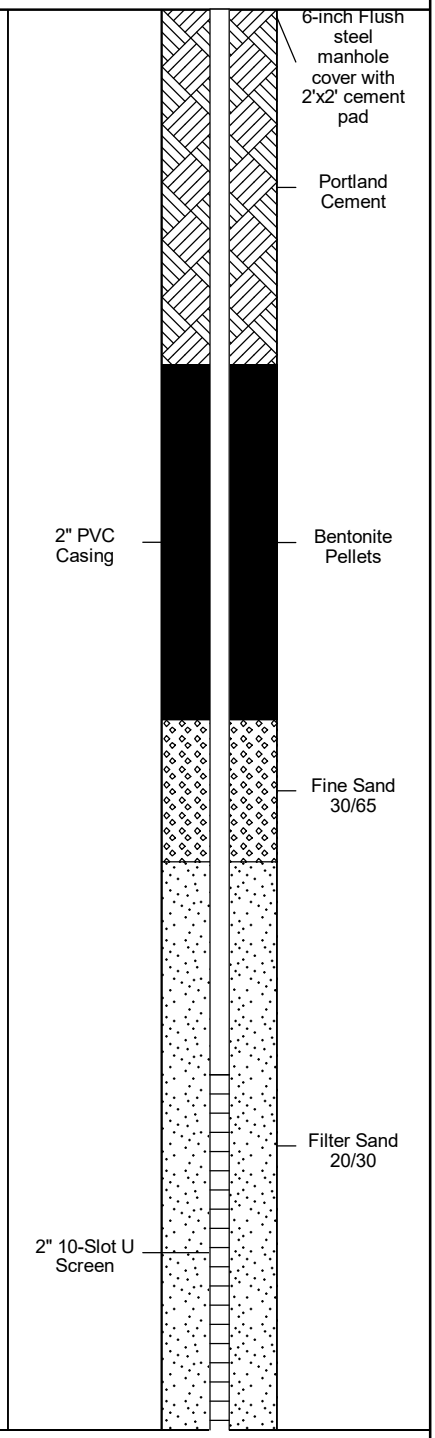
Client Name: McManus
Project Number: 30050105
Project Name: Brunswick, GA

Date Started: 05-26-2022
Date Completed: 05-26-2022
Total Depth: 25.0 ft bgs

Logger: C. Lawson
Reviewer:

Depth (feet)	Sample ID	Rec. (ft)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
0					(0.0-0.5 ft) Gravel.	(0 ft) Drilling fluid of potable water-used approximately 75 gallons
1					(0.5-12 ft) Silty Sand: 75% fine-grained sand, 25% silt, density soft, moist, 2.5YR 5/8 tan to brown; Fill.	
2						
3						
4						
5					(5.0-12 ft) Increase to 5% clay, consistency soft, no visual porosity.	
6						
7						
8						
9						
10						
11						
12					(12-17 ft) Silty Clay: 50% clay, 50% silt, consistency firm, moist, no visual porosity, 5Y 3/1 dark gray to black, no fines, no shell fragments, more of a silty sand at 17 ft with less clay.	
13						
14						
15						
16						
17					(17-25 ft) Poorly Sorted Sand: 90% fine-grained sand, density soft, moist, poor visual porosity, 5Y 3/1 dark gray to black.	
18						
19						
20						

Construction Details



Drilling Company: Cascade Drilling
Driller: J. Reynolds
Drilling Method: Rotosonic
Drill Rig:
Remarks: bgs = below ground surface; ft = feet; PID = photo-ionization detector; ppm = parts per million; Rec. = recovery.

Sampling Method: Sonic Core Barrel
Sampling Dimensions: 5' x 6"
First Encountered Water (ft bgs): NA
Static Water Level (ft bgs): 4.38
Top of Casing Elevation: 7.49
Surface Elevation: 7.82
North Coordinate: 444408.70
East Coordinate: 850768.53

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\MCMANUS\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 8/23/22

ARCADIS

Soil Boring and Construction Log

Boring No.: PT-01

Sheet: 2 of 2

Client Name: McManus
Project Number: 30050105
Project Name: Brunswick, GA

Date Started: 05-26-2022
Date Completed: 05-26-2022
Total Depth: 25.0 ft bgs

Logger: C. Lawson
Reviewer:

Depth (feet)	Sample ID	Rec. (ft)	Blow Counts	Graphic	Description	Drilling Fluid and Notes	Construction Details
21					(17-25 ft) Poorly Sorted Sand: 90% fine-grained sand, density soft, moist, poor visual porosity, 5Y 3/1 dark gray to black.		2" 10-Slot U Screen; Filter Sand 20/30
22							
23							
24							
25					25 ft. bgs End of Boring		
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							

Remarks: bgs = below ground surface; ft = feet; PID = photo-ionization detector; ppm = parts per million; Rec. = recovery.

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\MCMANUS\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 8/23/22

ARCADIS

Soil Boring and Construction Log

Boring No.: PT-02

Sheet: 1 of 2

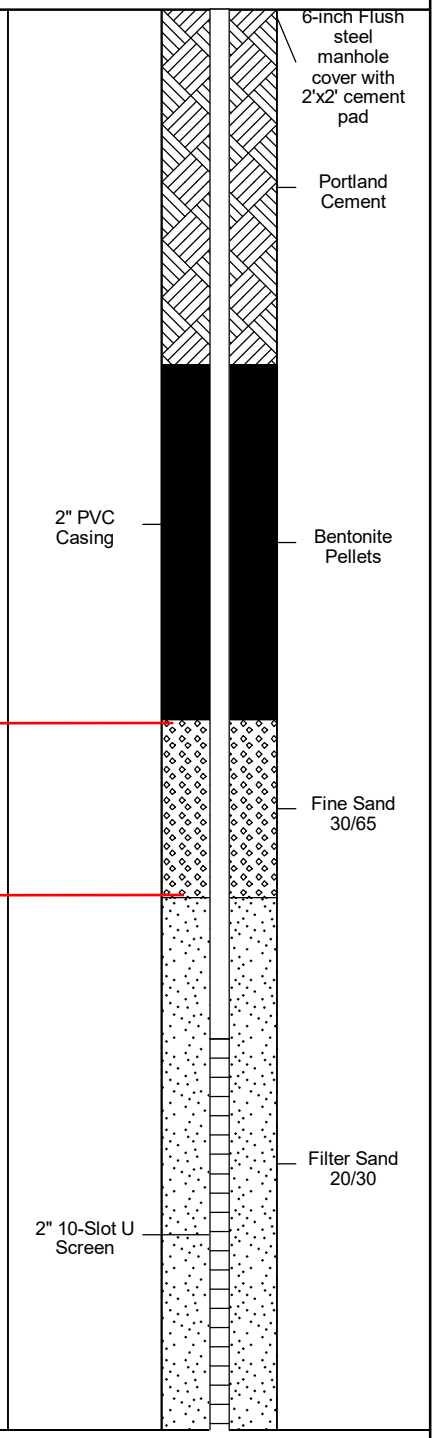
Client Name: McManus
Project Number: 30050105
Project Name: Brunswick, GA

Date Started: 05-27-2022
Date Completed: 05-31-2022
Total Depth: 25.0 ft bgs

Logger: C. Lawson
Reviewer:

Depth (feet)	Sample ID	Rec. (ft)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
0					(0.0-0.5 ft) Gravel.	(0 ft) Drilling fluid of potable water-used approximately 100 gallons
1					(0.5-8.0 ft) Silty Sand: fine-grained sand, tan to brown, moist; Fill.	
8					(8.0-17 ft) Clayey Sand: 40% silt, 30% clay, 30% fine-grained sand, consistency firm, moist, no visual porosity, tan to brown.	
10					(10-17 ft) Clay content slightly higher, no hard clay present.	
17					(17-18 ft) Silty Sand: 75% fine-grained sand, 25% silt, density firm, moist, no visual porosity, dark gray to black.	
18					(18-25 ft) Poorly Sorted Sand: 95% fine-grained sand, density soft, moist, poor visual porosity, dark gray to black.	

Construction Details



Drilling Company: Cascade Drilling
Driller: J. Reynolds
Drilling Method: Rotosonic
Drill Rig:
Remarks: bgs = below ground surface; ft = feet; PID = photo-ionization detector; ppm = parts per million; Rec. = recovery.

Sampling Method: Sonic Core Barrel
Sampling Dimensions: 5' x 6"
First Encountered Water (ft bgs): NA
Static Water Level (ft bgs): 4.56
Top of Casing Elevation: 7.64
Surface Elevation: 7.91
North Coordinate: 444414.19
East Coordinate: 850777.91

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\MCMANUS\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 8/23/22

ARCADIS

Soil Boring and Construction Log

Boring No.: PT-02

Sheet: 2 of 2

Client Name: McManus
Project Number: 30050105
Project Name: Brunswick, GA

Date Started: 05-27-2022
Date Completed: 05-31-2022
Total Depth: 25.0 ft bgs

Logger: C. Lawson
Reviewer:

Depth (feet)	Sample ID	Rec. (ft)	Blow Counts	Graphic	Description	Drilling Fluid and Notes	Construction Details
21					(18-25 ft) Poorly Sorted Sand: 95% fine-grained sand, density soft, moist, poor visual porosity, dark gray to black.		2" 10-Slot U Screen; Filter Sand 20/30
22							
23							
24							
25					25 ft. bgs End of Boring		
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							

Remarks: bgs = below ground surface; ft = feet; PID = photo-ionization detector; ppm = parts per million; Rec. = recovery.

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\MCMANUS\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 8/23/22

ARCADIS

Soil Boring and Construction Log

Boring No.: PT-03

Sheet: 1 of 2

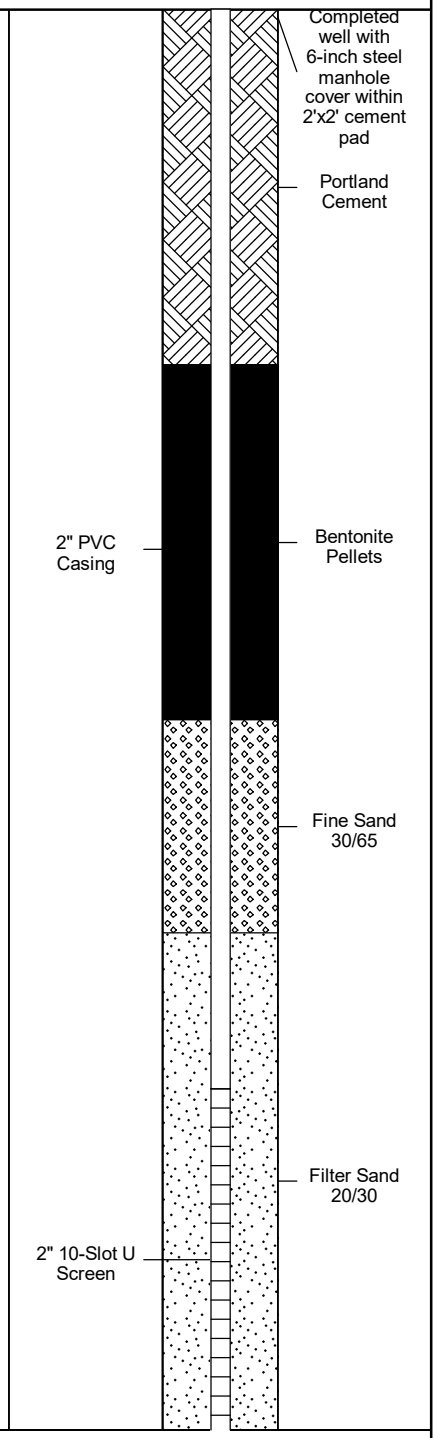
Client Name: McManus
Project Number: 30050105
Project Name: Brunswick, GA

Date Started: 06-01-2022
Date Completed: 06-01-2022
Total Depth: 25.2 ft bgs

Logger: C. Lawson
Reviewer:

Depth (feet)	Sample ID	Rec. (ft)	Blow Counts	Graphic	Description	Drilling Fluid and Notes
0					(0.0-0.5 ft) Gravel.	(0 ft) Drilling fluid of potable water-used approximately 75 gallons
1					(0.5-8.0 ft) Silty Sand: 75% fine-grained sand, 25% silt, density soft, dry; Fill.	
5					(5.0-8.0 ft) Tan to brown.	
8					(8.0-13 ft) Silty Sand with Clay: 50% fine-grained sand, 40% silt, 10% clay, consistency soft, moist, poor visual porosity.	
10					(10-13 ft) Increase to 15% clay.	
13					(13-15.5 ft) Clay: 90% stiff clay, 10% fine-grained sand, consistency firm, moist, no visual porosity, black to dark gray.	
15.5					(15.5-16 ft) Silty Sand: 75% sand, 15% silt, 10% clay, density firm, moist, no visual porosity, dark gray to black.	
16					(16-25 ft) Poorly Sorted Sands: 90% sand, density soft, saturated, dark gray to black.	
17					(17-17.3 ft) Small lends of silty sand.	

Construction Details



Drilling Company: Cascade Drilling
Driller: J. Reynolds
Drilling Method: Rotosonic
Drill Rig:
Remarks: bgs = below ground surface; ft = feet; PID = photo-ionization detector; ppm = parts per million; Rec. = recovery.

Sampling Method: Sonic Core Barrel
Sampling Dimensions: 5' x 6"
First Encountered Water (ft bgs): NA
Static Water Level (ft bgs): 4.17
Top of Casing Elevation: 7.45
Surface Elevation: 7.93
North Coordinate: 444418.92
East Coordinate: 850785.95

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\MCMANUS\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 8/23/22

ARCADIS

Soil Boring and Construction Log

Boring No.: PT-03

Sheet: 2 of 2

Client Name: McManus
Project Number: 30050105
Project Name: Brunswick, GA

Date Started: 06-01-2022
Date Completed: 06-01-2022
Total Depth: 25.2 ft bgs

Logger: C. Lawson
Reviewer:

Depth (feet)	Sample ID	Rec. (ft)	Blow Counts	Graphic	Description	Drilling Fluid and Notes	Construction Details
21					(16-25 ft) Poorly Sorted Sands: 90% sand, density soft, saturated, dark gray to black.		2" 10-Slot U Screen; Filter Sand 20/30
22							
23							
24							
25							
					25.2 ft. bgs End of Boring		
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							

Remarks: bgs = below ground surface; ft = feet; PID = photo-ionization detector; ppm = parts per million; Rec. = recovery.

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\MCMANUS\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 8/23/22

ARCADIS

Soil Boring and Construction Log

Boring No.: PT-04D

Sheet: 1 of 2

Client Name: McManus
Project Number: 30050105
Project Name: Brunswick, GA

Date Started: 05-25-2022
Date Completed: 05-25-2022
Total Depth: 41.0 ft bgs

Logger: C. Lawson
Reviewer:

Depth (feet)	Sample ID	Rec. (ft)	Blow Counts	Graphic	Description	Drilling Fluid and Notes	Construction Details
0					(0.0-0.5 ft) Mainly gravel.	(0-5 ft) Hand auger. Drilling fluid of potable water-used approximately 150 gallons.	Completed well with 6-inch steel manhole cover within 2'x2' cement pad
1					(0.5-12 ft) Silty Sand: 75% sand, 20% silt, 5% clay, consistency firm, brown to tan, very moist; Fill.		Portland Cement
2							
3							
4							
5					(5.0-12 ft) Increase to 90% fine-grained sand, density soft, 5YR 6/6 light tan.		
6							
7							
8							
9							
10							2" PVC Casing
11							
12					(12-15.5 ft) Silty Clay: 40% silt, 40% fine-grained sand, 20% clay, consistency soft, no visual porosity, 5YR 2/3 dark gray.		Bentonite Pellets
13							
14							
15							
16					(15.5-19 ft) Silty Sand: 80% fine-grained sand, 10% silt, 10% clay, density firm, no visual porosity, 5YR 2/3 dark gray to black.		
17							
18							
19							
20							

Drilling Company: Cascade Drilling
Driller: J. Reynolds
Drilling Method: Mini Sonic
Drill Rig:
Remarks: bgs = below ground surface; ft = feet; PID = photo-ionization detector; ppm = parts per million; Rec. = recovery.

Sampling Method: Sonic Core Barrel
Sampling Dimensions: 5' x 6"
First Encountered Water (ft bgs): NA
Static Water Level (ft bgs): 4.39
Top of Casing Elevation: 7.51
Surface Elevation: 7.80
North Coordinate: 444400.23
East Coordinate: 850753.07

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\MCMANUS\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 8/23/22

ARCADIS

Soil Boring and Construction Log

Boring No.: PT-04D

Sheet: 2 of 2

Client Name: McManus
Project Number: 30050105
Project Name: Brunswick, GA

Date Started: 05-25-2022
Date Completed: 05-25-2022
Total Depth: 41.0 ft bgs

Logger: C. Lawson
Reviewer:

Depth (feet)	Sample ID	Rec. (ft)	Blow Counts	Graphic	Description	Drilling Fluid and Notes	Construction Details
21					(19-28 ft) Poorly Sorted Sand: 95% fine-grained sand, density soft, poor visual porosity, large piece of woods at depth, top foot of sample has shell fragments ~1/8 to 1/4 inch.		
22					(20-28 ft) Increase to 100% fine-grained sand, moist, GLEY2 0/1 blueish to light brown, no clays.		
23							
24					(24 ft) Shell fragments.		
25							Bentonite Pellets
26							
27							
28					(28-28.4 ft) Silty Sand: minor clay, consistency firm, moist.		2" PVC Casing
29					(28.4-41 ft) Poorly Sorted Sand: 100% sand with shell fragments, density soft, moderate visual porosity, GLEY2 3/1 dark gray to black gray, no clays, shell fragments only at 24 ft.		
30					(30-35 ft) Shell fragments throughout.		
31							
32							Fine Sand 30/65
33							
34							
35					(35-41 ft) Shell fragments are large to ~1 inch, density firm, poor visual porosity.		
36							
37							Filter Sand 20/30
38							
39							2" 10-Slot U Screen
40							
41					41 ft. bgs End of Boring		
42							

Remarks: bgs = below ground surface; ft = feet; PID = photo-ionization detector; ppm = parts per million; Rec. = recovery.

SOIL BORING AND CONSTRUCTION LOG C:\USERS\LWOODS\ONEDRIVE - ARCADIS\FULCRUM-GINT PROJECTS\MCMANUS\GINT PROJECT.GPJ GINT DATA TEMPLATE.GDT 8/23/22

Appendix C

Well Development Logs

Low-Flow Test Report:

Test Date / Time: 6/15/2022 9:32:41 AM
Project: McManus Dike Well Development
Operator Name: Meredith Duncan

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.32 ft** **Total Depth: 30.32 ft** **Initial Depth to Water: 5.25 ft**	**Pump Type: Proactive 12V** **Tubing Type: PVC** **Pump Intake From TOC: 22.82 ft** **Estimated Total Volume Pumped: 80000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 4000 ml/min** **Final Draw Down: 0.00 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 893479**

Test Notes: Pre-purged 210 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	
6/15/2022 9:32 AM	00:00	7.56 pH	21.91 °C	17,412 µS/cm	0.02 mg/L	12.60 NTU	-277.6 mV	5.25 ft	4,000.0 ml/min
6/15/2022 9:36 AM	04:00	7.29 pH	21.74 °C	16,821 µS/cm	0.01 mg/L	14.30 NTU	-285.0 mV	5.21 ft	4,000.0 ml/min
6/15/2022 9:40 AM	08:00	7.28 pH	21.74 °C	16,789 µS/cm	0.00 mg/L	12.40 NTU	-291.5 mV	5.20 ft	4,000.0 ml/min
6/15/2022 9:44 AM	12:00	7.28 pH	21.76 °C	16,889 µS/cm	0.00 mg/L	7.30 NTU	-295.1 mV	5.15 ft	4,000.0 ml/min
6/15/2022 9:48 AM	16:00	7.28 pH	21.78 °C	16,889 µS/cm	0.00 mg/L	4.61 NTU	-296.2 mV	5.09 ft	4,000.0 ml/min
6/15/2022 9:52 AM	20:00	7.29 pH	21.78 °C	16,708 µS/cm	0.00 mg/L	3.14 NTU	-295.7 mV	5.06 ft	4,000.0 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/14/2022 1:48:08 PM
Project: McManus Dike Well Development
Operator Name: Kevin Stephenson

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 14.59 ft** **Total Depth: 29.59 ft** **Initial Depth to Water: 5.18 ft**	**Pump Type: Proactive 12V** **Tubing Type: LDPE** **Pump Intake From TOC: 22.09 ft** **Estimated Total Volume Pumped: 96000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 4000 ml/min** **Final Draw Down: 1.14 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789317**

Test Notes:
Pre-purged 135 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 1000 %	+/- 10	+/- 1000 %	+/- 0.5	+/- 1000 %	
6/14/2022 1:48 PM	00:00	7.56 pH	73.10 °F	19,282 µS/cm	0.01 mg/L	9.55 NTU	-223.8 mV	6.16 ft	11.62 PSU	4,000.0 ml/min
6/14/2022 1:52 PM	04:00	7.32 pH	71.81 °F	19,146 µS/cm	0.01 mg/L	9.22 NTU	-271.8 mV	6.28 ft	11.52 PSU	4,000.0 ml/min
6/14/2022 1:56 PM	08:00	7.30 pH	71.80 °F	19,060 µS/cm	0.00 mg/L	13.20 NTU	-233.1 mV	6.28 ft	11.47 PSU	4,000.0 ml/min
6/14/2022 2:00 PM	12:00	7.27 pH	71.72 °F	19,322 µS/cm	0.00 mg/L	7.45 NTU	-216.2 mV	6.28 ft	11.64 PSU	4,000.0 ml/min
6/14/2022 2:04 PM	16:00	7.27 pH	71.74 °F	19,281 µS/cm	0.00 mg/L	9.92 NTU	-231.1 mV	6.32 ft	11.61 PSU	4,000.0 ml/min
6/14/2022 2:08 PM	20:00	7.26 pH	71.75 °F	19,135 µS/cm	0.00 mg/L	8.13 NTU	-213.4 mV	6.32 ft	11.52 PSU	4,000.0 ml/min
6/14/2022 2:12 PM	24:00	7.26 pH	71.78 °F	19,374 µS/cm	0.00 mg/L	9.07 NTU	-241.2 mV	6.32 ft	11.67 PSU	4,000.0 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 6/14/2022 1:50:58 PM
Project: McManus Dike Well Development
Operator Name: Meredith Duncan

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.2 ft** **Total Depth: 24.2 ft** **Initial Depth to Water: 9.5 ft**	**Pump Type: Proactive 12V** **Tubing Type: PVC** **Pump Intake From TOC: 19.2 ft** **Estimated Total Volume Pumped: 80000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 4000 ml/min** **Final Draw Down: 0.33 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 893479**

Test Notes: Pre-purged 98 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	
6/14/2022 1:50 PM	00:00	7.50 pH	23.30 °C	11,687 µS/cm	0.01 mg/L	1.20 NTU	-283.5 mV	9.50 ft	4,000.0 ml/min
6/14/2022 1:54 PM	04:00	7.38 pH	22.01 °C	12,264 µS/cm	0.00 mg/L	0.66 NTU	-360.9 mV	9.73 ft	4,000.0 ml/min
6/14/2022 1:58 PM	08:00	7.36 pH	21.92 °C	12,231 µS/cm	0.00 mg/L	0.57 NTU	-399.9 mV	9.76 ft	4,000.0 ml/min
6/14/2022 2:02 PM	12:00	7.35 pH	21.94 °C	12,297 µS/cm	0.00 mg/L	0.74 NTU	-424.0 mV	9.79 ft	4,000.0 ml/min
6/14/2022 2:06 PM	16:00	7.34 pH	21.92 °C	12,328 µS/cm	0.00 mg/L	0.58 NTU	-439.3 mV	9.82 ft	4,000.0 ml/min
6/14/2022 2:10 PM	20:00	7.33 pH	21.96 °C	12,481 µS/cm	0.00 mg/L	0.40 NTU	-449.1 mV	9.83 ft	4,000.0 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/14/2022 11:18:11 AM
Project: McManus Dike Well Development
Operator Name: Kevin Stephenson

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.35 ft** **Total Depth: 24.35 ft** **Initial Depth to Water: 4.31 ft**	**Pump Type: Proactive 12V** **Tubing Type: LDPE** **Pump Intake From TOC: 19.35 ft** **Estimated Total Volume Pumped: 56000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 3500 ml/min** **Final Draw Down: 2.67 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789317**

Test Notes:
Pre-purged 105 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 1000 %	+/- 10	+/- 1000 %	+/- 0.5	+/- 1000 %	
6/14/2022 11:18 AM	00:00	7.46 pH	73.35 °F	9,649.5 µS/cm	0.01 mg/L	1.95 NTU	-141.0 mV	7.04 ft	5.50 PSU	3,500.0 ml/min
6/14/2022 11:22 AM	04:00	7.35 pH	71.93 °F	9,793.0 µS/cm	0.00 mg/L	1.22 NTU	-143.2 mV	6.98 ft	5.58 PSU	3,500.0 ml/min
6/14/2022 11:26 AM	08:00	7.34 pH	71.90 °F	9,843.3 µS/cm	-0.01 mg/L	0.70 NTU	-151.8 mV	6.97 ft	5.61 PSU	3,500.0 ml/min
6/14/2022 11:30 AM	12:00	7.32 pH	71.89 °F	9,999.0 µS/cm	-0.01 mg/L	0.59 NTU	-164.1 mV	6.97 ft	5.71 PSU	3,500.0 ml/min
6/14/2022 11:34 AM	16:00	7.31 pH	71.89 °F	10,082 µS/cm	-0.01 mg/L	0.53 NTU	-180.6 mV	6.98 ft	5.76 PSU	3,500.0 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/15/2022 9:48:17 AM
Project: McManus Dike Well Development
Operator Name: Kevin Stephenson

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.36 ft** **Total Depth: 25.36 ft** **Initial Depth to Water: 4.71 ft**	**Pump Type: Proactive 12V** **Tubing Type: LDPE** **Pump Intake From TOC: 20.36 ft** **Estimated Total Volume Pumped: 60000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 3000 ml/min** **Final Draw Down: 0.16 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789317**

Test Notes:
Pre-purged 168 liters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 1000 %	+/- 10	+/- 1000 %	+/- 0.5	+/- 1000 %	
6/15/2022 9:48 AM	00:00	7.41 pH	71.90 °F	9,053.5 µS/cm	0.02 mg/L	12.60 NTU	-137.6 mV	5.17 ft	5.13 PSU	3,000.0 ml/min
6/15/2022 9:52 AM	04:00	7.27 pH	71.77 °F	9,279.7 µS/cm	0.01 mg/L	11.80 NTU	-140.4 mV	5.16 ft	5.27 PSU	3,000.0 ml/min
6/15/2022 9:56 AM	08:00	7.28 pH	71.86 °F	9,400.5 µS/cm	0.00 mg/L	9.70 NTU	-143.2 mV	5.02 ft	5.34 PSU	3,000.0 ml/min
6/15/2022 10:00 AM	12:00	7.28 pH	71.84 °F	9,504.4 µS/cm	0.00 mg/L	9.22 NTU	-144.6 mV	4.94 ft	5.40 PSU	3,000.0 ml/min
6/15/2022 10:04 AM	16:00	7.28 pH	71.82 °F	9,516.6 µS/cm	0.00 mg/L	8.27 NTU	-145.1 mV	4.91 ft	5.41 PSU	3,000.0 ml/min
6/15/2022 10:08 AM	20:00	7.28 pH	71.80 °F	9,566.9 µS/cm	0.00 mg/L	7.17 NTU	-145.8 mV	4.87 ft	5.44 PSU	3,000.0 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 6/14/2022 11:07:15 AM
Project: McManus Dike Well Development
Operator Name: Meredith Duncan

Location Name: PT-04D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 30.83 ft** **Total Depth: 40.83 ft** **Initial Depth to Water: 14.05 ft**	**Pump Type: Proactive 12V** **Tubing Type: PVC** **Pump Intake From TOC: 35.83 ft** **Estimated Total Volume Pumped: 64000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 4000 ml/min** **Final Draw Down: 0.54 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 893479**

Test Notes: Pre-purged 168 liters

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	
6/14/2022 11:07 AM	00:00	7.29 pH	22.77 °C	20,150 µS/cm	0.02 mg/L	1.09 NTU	-235.8 mV	14.05 ft	4,000.0 ml/min
6/14/2022 11:11 AM	04:00	7.24 pH	22.14 °C	20,450 µS/cm	0.01 mg/L	0.33 NTU	-267.3 mV	14.46 ft	4,000.0 ml/min
6/14/2022 11:15 AM	08:00	7.23 pH	22.12 °C	20,368 µS/cm	0.00 mg/L	0.24 NTU	-291.3 mV	14.53 ft	4,000.0 ml/min
6/14/2022 11:19 AM	12:00	7.22 pH	22.10 °C	20,260 µS/cm	0.00 mg/L	0.35 NTU	-307.3 mV	14.54 ft	4,000.0 ml/min
6/14/2022 11:23 AM	16:00	7.21 pH	22.11 °C	20,189 µS/cm	0.00 mg/L	0.42 NTU	-319.4 mV	14.59 ft	4,000.0 ml/min

Samples

Sample ID:	Description:

Appendix D

Survey Report

CHART TO SHOW SELECT TEST WELL LOCATIONS OF

GEORGIA POWER COMPANY,
PLANT McMANUS,
1356th G.M.D., GLYNN COUNTY, GEORGIA

FOR: RESOLUTE ENVIRONMENTAL

TEST WELL LOCATIONS					
LOCATION DESIGNATION	NORTHING	EASTING	PVC TOP MARK	MAG NAIL ELEVATION	TYPE
DR 01	444407.62	850777.93	7.58'	7.86'	FLUSH
DR 02	444411.68	850784.46	7.49'	7.90'	FLUSH
PT 01	444408.70	850768.53	7.49'	7.82'	FLUSH
PT 02	444414.19	850777.91	7.64'	7.91'	FLUSH
PT 03	444418.92	850785.95	7.45'	7.93'	FLUSH
PT 04 D	444400.23	850753.07	7.51'	7.80'	FLUSH

NOTES:

1. BEARINGS SHOWN HEREON ARE BASED ON GRID NORTH-NAD83 COORDINATE DATUM FOR THE GEORGIA EAST ZONE UTILIZING THE TRIMBLE VRS NETWORK.

2. ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) UTILIZING THE TRIMBLE VRS NETWORK.

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION OF MAG NAIL IN THE CONCRETE PAD FOR THE WELL
DATE OF FIELD SURVEY & INSPECTION: JUNE 27, 2022
FIELD SURVEY TOLERANCE = 0.10 FEET HORIZONTAL - NAD 83 & 0.01 FEET VERTICAL - NAVD88
EQUIPMENT USED TO RECORD DATA: CHAMPION WR1 GPS RECEIVER, TRIMBLE S5 TOTAL STATION, SOKKIA AUTO LEVEL

DATE OF FIELD SURVEY: JUNE 27, 2022

APPROVED BY:

GEORGIA PROFESSIONAL LAND SURVEYOR No. 3395 DAVID E. DOWDY

DAVID E. DOWDY
GA. PROFESSIONAL SURVEYOR No. 3395

JACKSON SURVEYING, INC.
Surveyors and Land Planners

207 ROSE DRIVE
BRUNSWICK, GEORGIA 31520

Ofc. (912) 265-3856

DWN. BY: DED

CKD. BY: PJ

FB. 122, PG. 46

Z:\JSI Public\Dwgs\Glynn County\Plant McManus\WELLSV12.DWG, 7/6/2022 8:04:42 AM, 1:1

Arcadis U.S., Inc.
2839 Paces Ferry Road, Suite 900
Atlanta
Georgia 30339
Phone: 770 431 8666
Fax: 770 435 2666
www.arcadis.com

Well Installation Report

Plant McManus Former Ash Pond 1

Brunswick, Georgia

September 27, 2024

Well Installation Report

Plant McManus Former Ash Pond 1

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September 27, 2024

Prepared By:
Arcadis U.S., Inc.
2839 Paces Ferry Road
Suite 900
Atlanta, GA 30339
United States
Phone: 770 431 8666
Fax: 770 435 2666

Prepared For:
Georgia Power Company
Brunswick, Georgia

Our Ref:
30180421.00009

David Prouty, P.G.
Project Geologist

Geoff Gay, P.E.
Technical Expert, Vice President

Contents

Certification iv
1 Introduction 1
2 Drilling and Well Installation 1
2.1 Drilling Method 1
2.2 Screened Interval 1
2.3 Well Construction Materials 1
2.3.1 Filter Pack 2
2.3.2 Annular Seal 2
3 Well Development 2
4 Survey 3
5 References 3

Tables

Table 1. Well Completion Details

Figures

Figure 1. Site Map and Compliance Monitoring Well Network
Figure 2. Well Location Map – Pilot Study Area

Appendices

A Boring Logs and Well Construction Details
B Well Driller Performance Bond
C Well Development Logs
D Survey Report

Certification

I, Geoffrey Gay, am a professional engineer and licensed in the State of Georgia. I hereby certify that this report was prepared by, or under the direct supervision of, a Qualified Groundwater Scientist, in accordance with the Georgia Environmental Protection Division Rules of Solid Waste Management. According to 391-3-4-.01, a Qualified Groundwater Scientist is “a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action.” By affixing my professional seal and signature, I hereby acknowledge that this report has been prepared in conformance with the United States Environmental Protection Agency coal combustion residual rule [40 Code of Federal Regulations (CFR) 257 Subpart D] and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10.

09-27-2024

J. Geoffrey Gay, P.E. (PE 27801)
Technical Expert (Eng), Vice President

Date

1 Introduction

This report documents the installation of two piezometers at Georgia Power Company (Georgia Power) Plant McManus Former Ash Pond 1 (AP-1). One injection well (INW-01) and one dose response well (DR-03), screened at similar depth and lithology to detection well MCM-06 and in general accordance with the Permit No. 063-030D(CCR) groundwater monitoring plan [GWMP] (Resolute 2021) were installed. Exceptions to the design presented in the GWMP are associated with the purpose of the wells (injection and dose response monitoring) in support of an approved Injection Pilot Study Workplan (Arcadis 2024, GEOS ID 836675).

2 Drilling and Well Installation

The piezometer locations are shown in **Figure 1**. The installation date, location, elevation, screen interval, and designations for the installed wells are provided in the following sections. Boring logs with well construction details are provided in **Appendix A**. A summary of well construction details is provided in **Table 1**.

2.1 Drilling Method

The wells were installed by Cascade Environmental under contract with Southern Company Services (SCS) Field Services. Cascade had a current and valid bond with the Water Wells Standards Advisory Council for the state of Georgia at the time of drilling and well installation, provided in **Appendix B**. The well installations were performed under the oversight and direction of a Georgia Registered Professional Engineer with Arcadis. Borehole advancement drilling was completed using rotosonic drilling techniques. A Terra Sonic 150CC Compact Crawler sonic rig was used to drill the boreholes where the wells were installed. During the drilling, continuous core samples were logged in the field for lithologic properties.

2.2 Screened Interval

Injection well INW-01 is constructed with 15 feet of 4-inch diameter well screen placed at an interval of 15.95 feet to 30.95 feet below ground surface (bgs) with a flush-threaded polyvinyl chloride (PVC) end cap placed on the bottom 0.1-foot sump/sediment trap.

Dose response well DR-03 is constructed with 15 feet of 2-inch diameter well screen placed at an interval of 15.90 feet to 30.90 feet bgs with a flush-threaded PVC end cap placed on the bottom 0.6-foot sump/sediment trap.

The screen intervals are provided along with the construction details in **Table 1**.

2.3 Well Construction Materials

The wells were designed and constructed to: (1) allow sufficient groundwater flow to the well for sampling and injection in the case of INW-01; (2) minimize the passage of formation materials (turbidity) into the wells; and (3) ensure sufficient structural integrity to prevent collapse of the well. The dose response well was constructed of 2-inch diameter Schedule 40 PVC casing affixed to a slotted PVC screen. The injection well was constructed of 4-inch diameter Schedule 40 PVC casing affixed to a slotted PVC screen. Factory machine slotted 0.010-inch

screens were used. The construction materials are ink-free, National Science Foundation (NSF) approved, and do not contain glues or solvents. The casing and screen sections are flush-threaded (ASTM-F-480).

2.3.1 Filter Pack

Following placement of the well screen and casing at INW-01, the annular space around the screen and casing was filled with Standard Sand and Silica 20/30 filter pack sand from the base of the borehole to a minimum of 2 feet above the top of the screen. Approximately 4.5 cubic feet of filter sand were used for INW-01.

Following placement of the well screen and casing at DR-03, the annular space around the screen and casing was filled with Standard Sand and Silica 20/30 filter pack sand from the base of the borehole to approximately 3 feet above the top of the screen. Approximately 2.5 cubic feet of bags of filter sand were used for DR-03.

After placing the filter pack and prior to installing the annular seal, each well was pumped for at least 30 minutes to ensure proper settlement of the filter pack. Prior to installing the annular seal, the depth to the filter pack was remeasured to ensure a minimum of two feet was present above the screen. Well construction and boring logs are provided in **Appendix A**.

2.3.2 Annular Seal and Well Completion

For INW-01, an annular seal composed of approximately 12 feet of neat cement grout (approximately 9 cubic feet) was placed on top of 2 feet of Standard Sand & Silica Co. fine sand (30/65 filter sand) and tremie-grouted to surface. Approximately 0.5 cubic feet of 30/65 filter sand was used as an annular seal for INW-01. The monitoring well surface completion consists of a 12-inch bolt down manhole and a four-foot by four-foot by six-inch concrete pad.

For DR-03, an annular seal composed of 3/8-inch Baroid Holeplug® non-coated, bentonite chips was placed on top of the filter pack by slowly pouring the material down the borehole and tamping it into place with a tremie pipe. Bentonite chips were placed from the top of the 20/30 sand to a thickness of approximately 2 feet in order to prevent grout contamination into the water-bearing zone. Approximately 0.5 cubic feet of bentonite chips were used. Following hydration of the bentonite, the remaining annular space was filled to approximately 4.9 feet bgs with Sand & Silica Co. fine sand (30/65 filter sand) to top of the water table (approximately 1 cubic foot) and tremie-grouted to surface with approximately 0.5 cubic feet of cement bentonite grout. The monitoring well surface completion consists of a 6-inch diameter bolt down manhole and a two-foot by two-foot by six-inch concrete pad.

3 Well Development

Injection well INW-01 was developed on June 4, 2024, using a 12-volt Proactive submersible pump. The well was surged continuously across the entire well screen in 2-foot strokes with the Proactive submersible pump from top to bottom and over-pumped to remove fines resulting from the well installation activities. Turbidity, pH, temperature, and conductivity measurements ensured that the well was fully developed. The final turbidity measurement following development was 1.43 nephelometric turbidity units (NTU).

Dose response well DR-03 was developed on June 3, 2024, using a Geotech Reclaimer submersible pump. The well was surged continuously across the entire well screen in 2-foot strokes with the submersible pump from top to bottom and over-pumped to remove fines resulting from the well installation activities. Turbidity, pH,

temperature, and conductivity measurements ensured that the well was fully developed. The final turbidity measurement following development was 9.19 nephelometric turbidity units (NTU).

The well development forms are included in **Appendix C**.

4 Survey

The monitoring well locations and top of casing (TOC) elevations were surveyed by Shupe Surveying Company, P.C. on June 27, 2024 using a Carlson BRX-7 Global Positioning System (GPS) and Geomax Model Zone 20-HV Laser Level. A re-survey was performed on August 28, 2024 to achieve the requisite vertical accuracy. Horizontal survey locations are relative to the Georgia State Plane Coordinate System, East Zone, North American Datum of 1983 (NAD83), US Survey Feet. All horizontal locations meet or exceed an accuracy of 0.5-foot. Vertical elevations are referenced to North American Vertical Datum of 1988 (NAVD1988), US Survey Feet and meet an accuracy standard of 0.01 foot. A detailed survey report is included in **Appendix D**.

5 References

Arcadis. 2024. MCM-06 Pilot Study Work Plan – Plant McManus Former Ash Pond 1. Prepared for Georgia Power. April 30.

Georgia Environmental Protection Division, Georgia Department of Natural Resources. Manual for Groundwater Monitoring, September 1991.

Resolute. 2021. Groundwater Monitoring Plan – Plant McManus Former Ash Pond 1. Prepared for Georgia Power.

United States Environmental Protection Agency (USEPA), Science and Ecosystem Support Division (SESD). Design and Installation of Monitoring Wells SESDGUID-101-R2, January 16, 2018.

Tables

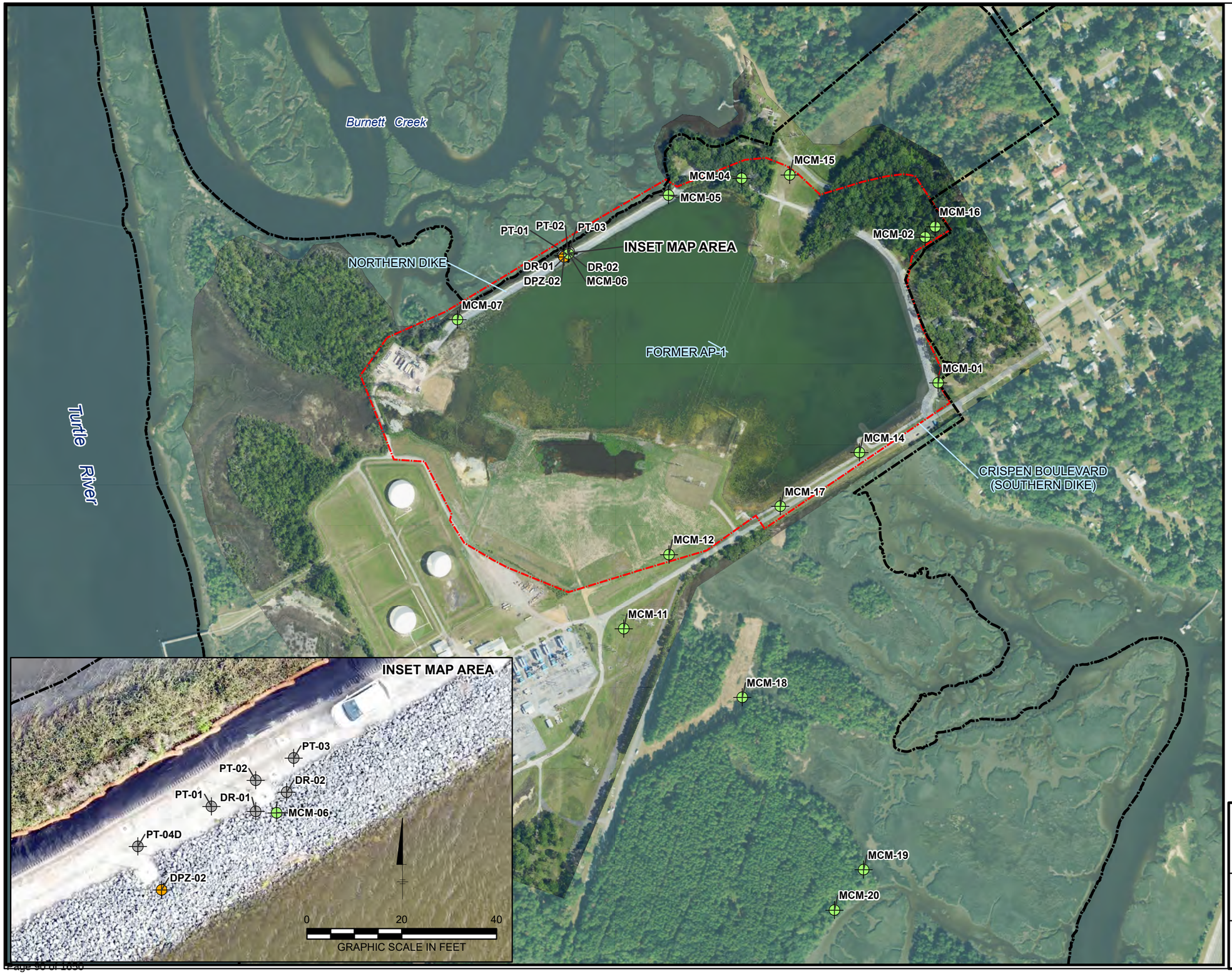
Table 1 - Well Completion Details
Georgia Power Company
Plant McManus
Brunswick, Georgia

Well ID	Installation Date	Northing [1] (feet)	Easting [1] (feet)	Ground Surface Elevation [2]	Top of Casing Elevation [2]	Total Depth (feet bgs)	Depth of Well (feet bTOC)	Screened Interval (feet bgs)	
								Top	Bottom
INW-01	6/1/2024	444,418.01	850,792.41	7.50	7.18	31.05	30.73	15.95	30.95
DR-03	6/1/2024	444,422.02	850,792.49	7.65	7.40	31.50	31.25	15.90	30.90

Notes:
1 - All horizontal locations surveyed to the Georgia State Plane Coordinate System, East Zone, NAD83
2 - Vertical elevations surveyed relative to NAVD88 (U.S. Survey Feet)
3 - Total Depth includes well sump (0.1 ft for INW-01 and 0.6 ft for DR-03)

Acronyms & Abbreviations:
bgs - below ground surface
bTOC - below top of casing
NAD83 - North American Datum of 1983
NAVD88 - North American Vertical Datum of 1988

Figures



LEGEND

- PROPERTY BOUNDARY
- PERMITTED CCR BOUNDARY
- DETECTION WELL
- ASSESSMENT WELL
- PIEZOMETER

NOTE:
1. CCR - COAL COMBUSTION RESIDUALS

0 500 1,000
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATE PLANE GEORGIA EAST FIPS 1001 FEET
IMAGERY FROM MCMANUS DRONE SURVEY IMAGERY

Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

SITE MAP AND MONITORING WELL NETWORK

ARCADIS

FIGURE
1

LEGEND

- PIEZOMETER
- DETECTION WELL
- ASSESSMENT WELL
- INJECTION WELL

0 10 20

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATE PLANE
GEORGIA EAST FIPS 1001 FEET
IMAGERY FROM MCMANUS DRONE SURVEY IMAGERY

Georgia Power

PLANT MCMANUS FORMER ASH POND 1
BRUNSWICK, GEORGIA

**WELL LOCATION MAP -
PILOT STUDY AREA**

ARCADIS

FIGURE
2

Appendix A

Boring Logs and Well Construction Details

RECORD OF BOREHOLE INW-01

SHEET 1 of 1

PROJECT: Georgia Power Plant McManus
PROJECT NUMBER: 30180421
DRILLED DEPTH: 33.0 ft
LOCATION: Brunswick, GA

DRILL RIG: TerraSonic 150CC
DATE STARTED: 5/30/2024
DATE COMPLETED: 6/1/2024

NORTHING: 444418.01
EASTING: 850792.41
GS ELEVATION: 7.50
TOC ELEVATION: 7.18

DEPTH W.L.: 5.94
ELEVATION W.L.: 1.24
DATE W.L.:
TIME W.L.:

DEPTH (ft)	DESCRIPTION	USCS	GRAPHIC LOG	DEPTH (ft)	SAMPLE NO.	PHOTO	REC
	0.0 - 1.0 Gravel	FILL		0.0			
	1.0 - 10.8 (SP) SAND; 7.5YR 7/6; loose; fine grained; well sorted; subangular; moist; FILL.			1.0			
5					1		7.5 10.0
	Grading to 10YR 8/4.	SP					
10							
	10.8 - 14.6 (CLS) Sandy CLAY; 7.5 YR 4/1; soft; medium to high plasticity; wet.	CLS		10.8			
15	14.6 - 16.8 (SP) SAND; 7.5YR 5/1; loose; fine grained; poorly sorted; subangular; wet; odor.	SP		14.6	2		9.0 10.0
20	Grading to 7.5YR 5/2.						
					3		8.5 10.0
25							
30	grading some shell fragments; GLEY1 5/N				4		3.0 3.0
	Boring terminated at 33 feet bgs.						

INW-01 MONITORING WELL DIAGRAM and NOTES

ANNULUS SEAL
Interval: 0.5'-12'
Type: Quickrete Portland Type I/II Neat Cement Grout
Quantity: 9.0 cf

FILTER PACK SEAL
Interval: 12'-14'
Type: 30/65 Standard Sand and Silica
Quantity: 0.5 cf

FILTER PACK
Interval: 14'-33'
Type: 20/30 Standard Sand and Silica
Quantity: 4.5 cf

WELL CONSTRUCTION DETAILS

SURFACE COMPLETION
Protection: 12" Cast Iron
Pad: 4'x4' Concrete
Lock: Yes

WELL CASING
Interval: 0'-15.95'
Material: Schedule 40 PVC
Diameter: 4"
Joint Type: Threaded

WELL SCREEN
Interval: 15.95'-30.95'
Material: Schedule 40 PVC
Diameter: 4"
Slot Size: 0.010"

DRILLING COMPANY: Cascade
DRILLER: Jason Williams

CHECKED BY: David Prouty
DATE: 7/31/2024

ARCADIS

RECORD OF BOREHOLE DR-03

SHEET 1 of 1

PROJECT: Georgia Power Plant McManus
PROJECT NUMBER: 30180421
DRILLED DEPTH: 33.0 ft
LOCATION: Brunswick, GA

DRILL RIG: TerraSonic 150CC
DATE STARTED: 5/31/2024
DATE COMPLETED: 6/1/2024

NORTHING: 444422.02
EASTING: 850792.49
GS ELEVATION: 7.65
TOC ELEVATION: 7.40

DEPTH W.L.: 6.67
ELEVATION W.L.: 0.75
DATE W.L.: 6/3/2024
TIME W.L.: 12:45:00 PM

DEPTH (ft)	DESCRIPTION	USCS	GRAPHIC LOG	DEPTH (ft)	SAMPLE NO.	PHOTO	REC	DR-03 MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
	0.0 - 0.8 Gravel	FILL		0.0				ANNULUS SEAL Interval: 0.5'-4.9' Type: Quickrete Portland Type I/II Cement Bentonite Grout Quantity: 0.5 cf	SURFACE COMPLETION Protection: 6" Cast Iron Pad: 2'x2' Concrete Lock: Yes
	0.8 - 11.5 (SP) SAND; 7.5YR 7/4; loose; well sorted; fine grained; subangular; moist; FILL.			0.8					WELL CASING Interval: 0'-15.90' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded
5	Grading to 7.5YR 7/2.				1		8.5 10.0		
	Grading to 7.5YR 7/3.	SP						FILTER PACK SEAL Interval: 4.9'-11.1' Type: 30/65 Standard Sand and Silica Quantity: 1.0 cf	
	Grading to 10YR 6/1.								
10									
	11.5 - 13.0 (CL) CLAY; GLEY1 5/N; soft; high plasticity; moist.	CL		11.5				FILTER PACK SEAL Interval: 11.1'-13.1' Type: 3/8" Hole Plug Bentonite Chips Quantity: 0.5 cf	
	13.0 - 13.5 (CLS) Sandy CLAY; GLEY1 5/N; soft; high plasticity; moist.	CLS		13.0					
	13.5 - 33.0 (SP) SAND; GLEY1 5/10Y; well sorted; fine grained; subangular to subrounded; wey.			13.5	2		10.0 10.0		WELL SCREEN Interval: 15.90'-30.90' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010"
15									
20	Grading to very fine grained; very wet; GLEY2 5/10BG.								
		SP						FILTER PACK Interval: 13.1'-32' Type: 20/30 Standard Sand and Silica Quantity: 2.5 cf	
25	Grading fine grained; subrounded; less wet.				3		9.0 10.0		
30	grading some shell fragments GLEY1 5/N.				4		3.0 3.0		
	Boring terminated at 33 feet bgs.								

DRILLING COMPANY: Cascade
DRILLER: Jason Williams

CHECKED BY: David Prouty
DATE: 7/31/2024

ARCADIS

Appendix B

Well Driller Performance Bond

CONTINUATION CERTIFICATE

Atlantic Specialty Insurance Company , Surety upon

a certain Bond No. 800033976

dated effective September 27, 2017
(MONTH-DAY-YEAR)

on behalf of Ricky Davis / Cascade Drilling, L.P.
(PRINCIPAL)

and in favor of Department of Natural Resources, State of Georgia
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2023
(MONTH-DAY-YEAR)

and ending on June 30, 2025
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and 00/100 Dollars ($30,000.00)

Description of bond Performance Bond for Water Well Contractors

Premium:

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on April 13, 2023
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By _____
ATTORNEY-IN-FACT Carlos A. Albelo

intact INSURANCE

Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Megan Sivley, Melissa Haddick, Sandra Parker, Orlando Aguirre, Stacy Killebrew, Carlos A. Albelo**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this first day of January, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

By _____
Sarah A. Kolar, General Counsel

STATE OF MINNESOTA
HENNEPIN COUNTY

On this first day of January, 2023, before me personally came Sarah A. Kolar, General Counsel of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and she acknowledged the execution of the same, and being by me duly sworn, that she is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.

ALISON DWAN NASH-TROUT
NOTARY PUBLIC - MINNESOTA
My Commission Expires
January 31, 2026

_____
Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 13th day of April, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

This Power of Attorney expires
January 31, 2025

_____
Kara Barrow, Secretary

Please direct bond verifications to surety@intactinsurance.com

Appendix C

Well Development Logs

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 6/3/24

Calibrated By: Jay Siewert

Field Conditions: 86°/48°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	789310
Turbidity Meter	LaMotte 2020	2042-3818

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24004517	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24000085	12/2024	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24005593	12/2024	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	12/2024	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	1502	Time Finish	1523		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	100.72	36.46	± 10%	NA
Specific Conductance (µS/cm)	4,490	4313.1	34.29	± 10% of standard	EPA 2023
pH (SU)	4.00	3.81	34.38	± 0.1	GWMP
pH (SU)	7.00	6.74	32.59	± 0.1	GWMP
pH (SU)	10.00	9.70	31.78	± 0.1	GWMP
ORP (mV)	228.0	216.0	31.37	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.92		
	10.00	10.38		

Calibration Check					
Time Start	1842	Time Finish	1850		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4805.9	31.02	± 10% of standard	EPA 2023
pH (SU)	4.00	3.94	30.79	± 0.1	GWMP
pH (SU)	7.00	~~7.23~~ 7.35	30.32	± 0.1	GWMP
pH (SU)	10.00	10.23	29.26	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	10.58		

Notes:

Site Name: Plant McManus

Field Instrumentation Calibration Form

Date: 6/4/24

Calibrated By: Jay Stewart

Field Conditions: 86° / 75°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	789310
Turbidity Meter	LaMotte 2020	7042-3818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24005593	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24004517	12/2024	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24000085	12/2024	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24005593	12/2024	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	12/2024	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	832	**Time Finish**	845		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	97.77	25.73	± 10%	NA
Specific Conductance (µS/cm)	4,490	4568.6	25.45	± 10% of standard	EPA 2023
pH (SU)	4.00	4.14	25.58	± 0.1	GWMP
pH (SU)	7.00	7.05	25.21	± 0.1	GWMP
pH (SU)	10.00	10.13	25.58	± 0.1	GWMP
ORP (mV)	228.0	236.3	25.42	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.92		
	10.00	10.63		

Calibration Check					
Time Start	1535	**Time Finish**	1541		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4592.3	31.51	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	31.36	± 0.1	GWMP
pH (SU)	7.00	~~8.90~~ 7.28	32.07	± 0.1	GWMP
pH (SU)	10.00	10.07	31.15	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.00	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	10.28		

Notes:

Low-Flow Test Report:

Test Date / Time: 6/4/2024 2:14:19 PM
Project: Plant McManus Dike Development June 2024
Operator Name: Jay Siewert

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.77 ft** **Total Depth: 30.77 ft** **Initial Depth to Water: 5.94 ft**	**Pump Type: 12V Proactive** **Tubing Type: LDPE** **Pump Intake From TOC: 23.27 ft** **Estimated Total Volume Pumped: 480000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 8000 ml/min** **Final Draw Down: 4.86 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789310**

Test Notes: Pre-purged for 5 hours and 1,968 L prior to trolling. Gray/black purge water on initial pumping. 6.25ft of drawdown observed at 2.5GPM. Hydraulic surging performed across full length of the screen. Pumping performed at each foot of screen length for approximatley 10 minutes and an average of 20gals. 5.41ft of drawdown observed before termination of pumping at 2.5 GPM. Final Depth: 30.78ft.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
6/4/2024 2:14 PM	00:00	7.44 pH	24.67 °C	7,993.4 µS/cm	0.00 mg/L	1.03 NTU	-104.7 mV	10.45 ft	4.49 PSU	8,000.0 ml/min
6/4/2024 2:19 PM	05:00	7.49 pH	22.43 °C	8,199.3 µS/cm	0.01 mg/L	1.23 NTU	-258.0 mV	10.10 ft	4.61 PSU	8,000.0 ml/min
6/4/2024 2:24 PM	10:00	7.47 pH	22.42 °C	8,249.2 µS/cm	0.00 mg/L	0.97 NTU	-157.9 mV	10.74 ft	4.64 PSU	8,000.0 ml/min
6/4/2024 2:29 PM	15:00	7.47 pH	22.39 °C	8,314.6 µS/cm	0.00 mg/L	0.56 NTU	-166.9 mV	10.80 ft	4.68 PSU	8,000.0 ml/min
6/4/2024 2:34 PM	20:00	7.46 pH	22.37 °C	8,235.2 µS/cm	0.00 mg/L	0.52 NTU	-176.6 mV	10.80 ft	4.63 PSU	8,000.0 ml/min
6/4/2024 2:39 PM	25:00	7.46 pH	22.37 °C	8,321.6 µS/cm	0.00 mg/L	0.56 NTU	-186.2 mV	10.80 ft	4.69 PSU	8,000.0 ml/min
6/4/2024 2:44 PM	30:00	7.46 pH	22.30 °C	8,333.3 µS/cm	0.00 mg/L	0.36 NTU	-194.7 mV	10.80 ft	4.69 PSU	8,000.0 ml/min
6/4/2024 2:49 PM	35:00	7.46 pH	22.29 °C	8,308.4 µS/cm	0.00 mg/L	0.36 NTU	-201.5 mV	10.79 ft	4.68 PSU	8,000.0 ml/min
6/4/2024 2:54 PM	40:00	7.45 pH	22.35 °C	8,297.7 µS/cm	0.00 mg/L	0.33 NTU	-208.1 mV	10.80 ft	4.67 PSU	8,000.0 ml/min
6/4/2024 2:59 PM	45:00	7.44 pH	22.34 °C	8,278.6 µS/cm	0.00 mg/L	0.31 NTU	-215.4 mV	10.80 ft	4.66 PSU	8,000.0 ml/min
6/4/2024 3:04 PM	50:00	7.44 pH	22.36 °C	8,264.5 µS/cm	0.00 mg/L	0.26 NTU	-222.4 mV	10.80 ft	4.65 PSU	8,000.0 ml/min
6/4/2024 3:09 PM	55:00	7.44 pH	22.36 °C	8,280.2 µS/cm	0.00 mg/L	0.24 NTU	-228.0 mV	10.80 ft	4.66 PSU	8,000.0 ml/min
6/4/2024 3:14 PM	01:00:00	7.44 pH	22.35 °C	8,269.2 µS/cm	0.00 mg/L	1.43 NTU	-234.9 mV	10.80 ft	4.65 PSU	8,000.0 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 6/3/2024 4:25:45 PM
Project: Plant McManus Dike Development June 2024
Operator Name: Jay Siewert

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.22 ft** **Total Depth: 31.22 ft** **Initial Depth to Water: 6.67 ft**	**Pump Type: GeoTech Reclaimer** **Tubing Type: LDPE** **Pump Intake From TOC: 23.72 ft** **Estimated Total Volume Pumped: 170000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1400 ml/min** **Final Draw Down: -1.86 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 789310**

Test Notes: Pre-purged for 6+ hours and 2,365L prior to trolling. Gray purge water on initial pumping. 0.83ft of drawdown observed at 3GPM. Water cleared fast. Hydraulic surging performed across full length of the screen 2x with pumping being performed at each foot of screen length.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 10	
6/3/2024 4:25 PM	00:00	7.51 pH	23.33 °C	6,902.5 µS/cm	0.30 mg/L	45.90 NTU	-65.5 mV	6.20 ft	3.84 PSU	1,400.0 ml/min
6/3/2024 4:30 PM	05:00	7.63 pH	22.96 °C	7,124.7 µS/cm	0.47 mg/L	35.20 NTU	-82.1 mV	6.03 ft	3.97 PSU	1,400.0 ml/min
6/3/2024 4:35 PM	10:00	7.71 pH	22.92 °C	7,298.9 µS/cm	1.49 mg/L	33.20 NTU	-75.4 mV	6.29 ft	4.07 PSU	1,400.0 ml/min
6/3/2024 4:40 PM	15:00	7.70 pH	22.81 °C	7,420.3 µS/cm	0.51 mg/L	23.20 NTU	-75.5 mV	6.02 ft	4.15 PSU	1,400.0 ml/min
6/3/2024 4:45 PM	20:00	7.68 pH	22.79 °C	7,547.7 µS/cm	0.32 mg/L	16.20 NTU	-86.9 mV	6.12 ft	4.22 PSU	1,400.0 ml/min
6/3/2024 4:50 PM	25:00	7.68 pH	22.79 °C	7,689.5 µS/cm	0.44 mg/L	15.40 NTU	-90.6 mV	6.08 ft	4.31 PSU	1,400.0 ml/min
6/3/2024 4:55 PM	30:00	7.67 pH	22.71 °C	7,739.5 µS/cm	0.29 mg/L	17.30 NTU	-93.8 mV	5.99 ft	4.34 PSU	1,400.0 ml/min
6/3/2024 5:00 PM	35:00	7.66 pH	22.79 °C	7,748.0 µS/cm	0.28 mg/L	11.30 NTU	-97.4 mV	5.95 ft	4.34 PSU	1,400.0 ml/min
6/3/2024 5:05 PM	40:00	7.66 pH	22.78 °C	7,742.5 µS/cm	0.31 mg/L	13.60 NTU	-99.9 mV	6.01 ft	4.34 PSU	1,400.0 ml/min
6/3/2024 5:10 PM	45:00	7.65 pH	22.79 °C	7,736.3 µS/cm	0.27 mg/L	17.60 NTU	-105.0 mV	5.96 ft	4.33 PSU	1,400.0 ml/min
6/3/2024 5:15 PM	50:00	7.65 pH	22.79 °C	7,777.5 µS/cm	0.29 mg/L	11.70 NTU	-107.1 mV	5.92 ft	4.36 PSU	1,400.0 ml/min
6/3/2024 5:20 PM	55:00	7.65 pH	22.72 °C	7,764.8 µS/cm	0.29 mg/L	17.80 NTU	-111.3 mV	5.90 ft	4.35 PSU	1,400.0 ml/min
6/3/2024 5:25 PM	01:00:00	7.64 pH	22.76 °C	7,760.3 µS/cm	0.23 mg/L	16.50 NTU	-116.2 mV	5.78 ft	4.35 PSU	1,400.0 ml/min
6/3/2024 5:30 PM	01:05:00	7.64 pH	22.79 °C	7,777.2 µS/cm	0.28 mg/L	13.50 NTU	-119.9 mV	5.65 ft	4.36 PSU	1,400.0 ml/min
6/3/2024 5:35 PM	01:10:00	7.63 pH	22.75 °C	7,810.3 µS/cm	0.34 mg/L	14.10 NTU	-128.8 mV	5.72 ft	4.38 PSU	1,400.0 ml/min

6/3/2024 5:40 PM	01:15:00	7.63 pH	22.79 °C	7,797.3 µS/cm	0.37 mg/L	11.90 NTU	-136.2 mV	5.55 ft	4.37 PSU	1,400.0 ml/min
6/3/2024 5:45 PM	01:20:00	7.63 pH	22.75 °C	7,808.1 µS/cm	0.35 mg/L	11.40 NTU	-149.0 mV	5.48 ft	4.38 PSU	1,400.0 ml/min
6/3/2024 5:50 PM	01:25:00	7.63 pH	22.74 °C	7,774.4 µS/cm	0.38 mg/L	12.20 NTU	-161.3 mV	5.39 ft	4.36 PSU	1,400.0 ml/min
6/3/2024 5:55 PM	01:30:00	7.61 pH	22.83 °C	7,829.8 µS/cm	0.26 mg/L	10.22 NTU	-171.3 mV	5.25 ft	4.39 PSU	1,400.0 ml/min
6/3/2024 6:00 PM	01:35:00	7.64 pH	22.83 °C	7,808.5 µS/cm	0.51 mg/L	12.46 NTU	-173.2 mV	5.21 ft	4.38 PSU	1,600.0 ml/min
6/3/2024 6:05 PM	01:40:00	7.60 pH	22.88 °C	7,807.1 µS/cm	0.27 mg/L	10.86 NTU	-186.6 mV	5.15 ft	4.38 PSU	1,600.0 ml/min
6/3/2024 6:10 PM	01:45:00	7.62 pH	22.83 °C	7,803.2 µS/cm	0.43 mg/L	10.81 NTU	-192.0 mV	5.06 ft	4.37 PSU	1,400.0 ml/min
6/3/2024 6:15 PM	01:50:00	7.59 pH	23.00 °C	7,841.5 µS/cm	0.19 mg/L	10.33 NTU	-201.3 mV	4.92 ft	4.40 PSU	1,400.0 ml/min
6/3/2024 6:20 PM	01:55:00	7.59 pH	23.03 °C	7,789.8 µS/cm	0.17 mg/L	8.53 NTU	-208.4 mV	4.86 ft	4.37 PSU	1,400.0 ml/min
6/3/2024 6:25 PM	02:00:00	7.59 pH	22.97 °C	7,778.1 µS/cm	0.23 mg/L	9.19 NTU	-210.1 mV	4.81 ft	4.36 PSU	1,400.0 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Appendix D

Survey Report

Shupe Surveying Company, P.C.

3837 Darien Hwy
Brunswick, GA 31525
912-265-0562

PLANT MCMANUS WELL SURVEY 9/05/2024

WELL #	NORTHING	EASTING	CASING ELEVATION	GROUND ELEVATION
INW-01	444418.01	850792.41	7.18	(NAIL) 7.50
DR-03	444422.02	850792.49	7.40	(NAIL) 7.65

HORIZONTAL DATUM: GA COORD SYSTEM, EAST ZONE NAD-83

VERTICAL DATUM: NAVD-88

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION FOR THE PVC WELL CASINGS.

DATE OF FIELD SURVEY & INSPECTION: 06/27/2024 AND 08/28/24. FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NAD'83, 0.01 VERTICAL-NAVD '88. EQUIPMENT USED FOR HORIZONTAL AND VERTICAL LOCATION: CARLSON BRX-7 GPS RECEIVER WITH A VRS NETWORK, CARLSON RT4 DATA COLLECTOR AND A GEOMAX MODEL ZONE 20-HV LASER LEVEL.

Appendix C

Injection Event Analytical Laboratory Reports

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 05, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus Injection Pilot Dose Response
Work Order: 682049

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 21, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682049001	MCM-DR-03(8132024)(0000)	Ground Water	08/13/24 07:45	08/21/24 10:50
682049002	MCM-DR-03(8132024)(0472)	Ground Water	08/13/24 15:40	08/21/24 10:50
682049003	MCM-DR-03(8142024)(0472)	Ground Water	08/14/24 07:45	08/21/24 10:50
682049004	MCM-DR-03(8142024)(0938)	Ground Water	08/14/24 13:00	08/21/24 10:50
682049005	MCM-DR-03(8142024)(1181)	Ground Water	08/14/24 15:20	08/21/24 10:50
682049006	MCM-DR-03(8152024)(1181)	Ground Water	08/14/24 08:05	08/21/24 10:50
682049007	MCM-DR-03(8152024)(1520)	Ground Water	08/14/24 11:40	08/21/24 10:50
682049008	MCM-DR-03(8152024)(1688)	Ground Water	08/14/24 13:07	08/21/24 10:50
682049009	MCM-DR-03(8152024)(1927)	Ground Water	08/14/24 15:55	08/21/24 10:50
682049010	MCM-DR-03(8162024)(1927)	Ground Water	08/14/24 08:07	08/21/24 10:50

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	26-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	05-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Will James for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682049 GEL Work Order: 682049

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Will James

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-03(8132024)(0000)	Project:	GPCC00124
Sample ID:	682049001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	13-AUG-24 07:45		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic		0.0760	0.00200	0.0100	mg/L	1.00	1	PRB	09/05/24	0417	2661546	1
Iron		8.54	0.0330	0.100	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661545

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-03(8132024)(0472)	Project:	GPCC00124
Sample ID:	682049002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	13-AUG-24 15:40		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		5.69	0.0330	0.100	mg/L	1.00	1	PRB	09/05/24	0425	2661546	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661545

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-03(8142024)(0472)	Project:	GPCC00124
Sample ID:	682049003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	14-AUG-24 07:45		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		76.1	0.165	0.500	mg/L	1.00	5	PRB	09/05/24	0443	2661546	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661545

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-03(8142024)(0938)	Project:	GPCC00124
Sample ID:	682049004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	14-AUG-24 13:00		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		84.3	0.165	0.500	mg/L	1.00	5	PRB	09/05/24	0450	2661546	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661545

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-03(8142024)(1181)	Project:	GPCC00124
Sample ID:	682049005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	14-AUG-24 15:20		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		157	0.165	0.500	mg/L	1.00	5	PRB	09/05/24	0457	2661546	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661545

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-03(8152024)(1181)	Project:	GPCC00124
Sample ID:	682049006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	14-AUG-24 08:05		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		416	3.30	10.0	mg/L	1.00	100	PRB	09/05/24	1150	2661546	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661545

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-03(8152024)(1520)	Project:	GPCC00124
Sample ID:	682049007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	14-AUG-24 11:40		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		175	0.165	0.500	mg/L	1.00	5	PRB	09/05/24	0519	2661546	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661545

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-03(8152024)(1688)	Project:	GPCC00124
Sample ID:	682049008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	14-AUG-24 13:07		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		191	0.165	0.500	mg/L	1.00	5	PRB	09/05/24	0527	2661546	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661545

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-03(8162024)(1927)	Project:	GPCC00124
Sample ID:	682049010	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	14-AUG-24 08:07		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		570	3.30	10.0	mg/L	1.00	100	PRB	09/05/24	1152	2661546	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661545

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: September 5, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **682049**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661546											
QC1205831872 LCS											
Arsenic	0.0500				0.0508	mg/L		102	(80%-120%)	PRB	09/05/24 02:24
Iron	2.00				1.97	mg/L		98.7	(80%-120%)		09/05/24 11:31
QC1205831871 MB											
Arsenic				U	ND	mg/L					09/05/24 02:21
Iron				U	ND	mg/L					09/05/24 11:29
QC1205831873 682037001 MS											
Arsenic	0.0500	U	ND		0.0463	mg/L		91.8	(75%-125%)		09/05/24 02:39
Iron	2.00		1630		1670	mg/L		N/A	(75%-125%)		09/05/24 11:35
QC1205831874 682037001 MSD											
Arsenic	0.0500	U	ND		0.0444	mg/L	4.21	88	(0%-20%)		09/05/24 02:42
Iron	2.00		1630		1540	mg/L	7.65	N/A	(0%-20%)		09/05/24 11:37
QC1205831875 682037001 SDILT											
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/05/24 02:50
Iron			16300		3140	ug/L	3.53		(0%-20%)		09/05/24 11:39

Notes:

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

QC Summary

Workorder: **682049**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 682049

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661546

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661545

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682049001	MCM-DR-03(8132024)(0000)
682049002	MCM-DR-03(8132024)(0472)
682049003	MCM-DR-03(8142024)(0472)
682049004	MCM-DR-03(8142024)(0938)
682049005	MCM-DR-03(8142024)(1181)
682049006	MCM-DR-03(8152024)(1181)
682049007	MCM-DR-03(8152024)(1520)
682049008	MCM-DR-03(8152024)(1688)
682049010	MCM-DR-03(8162024)(1927)
1205831871	Method Blank (MB)**ICP-MS**
1205831872	Laboratory Control Sample (LCS)
1205831875	682037001(MCM-Batch 01(08132024)L) Serial Dilution (SD)
1205831873	682037001(MCM-Batch 01(08132024)S) Matrix Spike (MS)
1205831874	682037001(MCM-Batch 01(08132024)SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 682049003 (MCM-DR-03(8142024)(0472)), 682049004 (MCM-DR-03(8142024)(0938)), 682049005 (MCM-DR-03(8142024)(1181)), 682049006 (MCM-DR-03(8152024)(1181)), 682049007 (MCM-DR-03(8152024)(1520)), 682049008 (MCM-DR-03(8152024)(1688)) and 682049010 (MCM-DR-03(8162024)(1927)) were diluted to ensure that the

analyte concentrations were within the linear calibration range of the instrument.

Analyte	682049						
	003	**004**	**005**	**006**	**007**	**008**	**010**
Iron	5X	5X	5X	100X	5X	5X	100X

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number (1):
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: 682049
GEL Project Manager: Erin Trent/Alaina Pinnick

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682049

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus Injection Pilot Dose Response Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Robert Shealy, Jess Ware, Grant Wilford (Arcadis US Inc.)
Send Results To: knjurink@southernco.com; kathryn.farris@arcadis.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, Please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - Fe, As	Total Metals (6020B) - Fe							Comments Note: extra sample is required for sample specific QC
									NI	NI							<-- Preservative Type (6)
MCM-DR-03(8132024)(0000)	8/13/2024	7:45	G	N	GW				x								Samples may contain low levels of deuterium
MCM-DR-03(8132024)(0472)	8/13/2024	15:40	G	N	GW					x							
MCM-DR-03(8142024)(0472)	8/14/2024	7:45	G	N	GW					x							
MCM-DR-03(8142024)(0938)	8/14/2024	13:00	G	N	GW					x							
MCM-DR-03(8142024)(1181)	8/14/2024	15:20	G	N	GW					x							
MCM-DR-03(8152024)(1181)	8/15/2024	8:05	G	N	GW					x							
MCM-DR-03(8152024)(1520)	8/15/2024	11:40	G	N	GW					x							
MCM-DR-03(8152024)(1688)	8/15/2024	13:07	G	N	GW					x							
MCM-DR-03(8152024)(1927)	8/15/2024	15:55	G	N	GW				HOLD								HOLD
MCM-DR-03(8162024)(1927)	8/16/2024	8:07	G	N	GW					x							

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/21/24	1050		8/21/24	1050
2						
3						

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: Task Code: MCM-CCR-CA-20240812
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

Sample Collection Time Zone [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e. Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

6820064 6820065
6820057 6820061
6820063 6820058
6820066 6820037 6820051
6820041 6820049

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order: A-D.
Received By: Thyasia Tatum	Date Received: 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other)

Suspected Hazard Information	Yes	No	
		✓	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date 8/22/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 05 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 05, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus Injection Pilot Dose Response
Work Order: 682057

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 21, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682057001	MCM-DR-03(08162024)(2181)	Ground Water	08/16/24 10:53	08/21/24 10:50
682057002	MCM-DR-03(08162024)(2418)	Ground Water	08/16/24 13:33	08/21/24 10:50
682057003	MCM-DR-03(08162024)(2675)	Ground Water	08/16/24 16:07	08/21/24 10:50
682057004	MCM-DR-03(08172024)(2675)	Ground Water	08/17/24 07:50	08/21/24 10:50
682057005	MCM-DR-03(08172024)(2899)	Ground Water	08/17/24 10:44	08/21/24 10:50
682057006	MCM-DR-03(08172024)(3136)	Ground Water	08/17/24 13:55	08/21/24 10:50
682057007	MCM-DR-03(08172024)(3386)	Ground Water	08/17/24 16:55	08/21/24 10:50
682057008	MCM-DR-03(08182024)(3386)	Ground Water	08/18/24 09:20	08/21/24 10:50
682057009	MCM-DR-03(08182024)(3626)	Ground Water	08/18/24 13:00	08/21/24 10:50
682057010	MCM-DR-03(08182024)(3861)	Ground Water	08/18/24 16:55	08/21/24 10:50
682057011	MCM-DR-03(08192024)(4329)	Ground Water	08/19/24 17:55	08/21/24 10:50

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	26-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	28-AUG-2024
SW846 3005A/6020B	29-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682057 GEL Work Order: 682057

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-03(08162024)(2418)	Project:	GPCC00124
Sample ID:	682057002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-AUG-24 13:33		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		365	0.660	2.00	mg/L	1.00	20	RM4	08/28/24	1545	2661561	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-03(08172024)(2675)	Project:	GPCC00124
Sample ID:	682057004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-AUG-24 07:50		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		497	0.660	2.00	mg/L	1.00	20	RM4	08/28/24	1608	2661561	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-03(08172024)(3136)	Project:	GPCC00124
Sample ID:	682057006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-AUG-24 13:55		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		393	0.660	2.00	mg/L	1.00	20	RM4	08/28/24	1611	2661561	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-03(08182024)(3386)	Project:	GPCC00124
Sample ID:	682057008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-AUG-24 09:20		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		463	0.660	2.00	mg/L	1.00	20	RM4	08/28/24	1615	2661561	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-03(08182024)(3861)	Project:	GPCC00124
Sample ID:	682057010	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-AUG-24 16:55		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		561	0.660	2.00	mg/L	1.00	20	RM4	08/28/24	1619	2661561	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-03(08192024)(4329)	Project:	GPCC00124
Sample ID:	682057011	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-AUG-24 17:55		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		578	0.660	2.00	mg/L	1.00	20	RM4	08/28/24	1623	2661561	1
Arsenic		0.0450	0.0100	0.0250	mg/L	1.00	5	RM4	08/29/24	1024	2661561	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: September 5, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **682057**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2661561												
QC1205831931 LCS												
Arsenic	0.0500				0.0524	mg/L		105	(80%-120%)	RM4	08/29/24	10:07
Iron	2.00				2.05	mg/L		102	(80%-120%)		08/28/24	15:41
QC1205831930 MB												
Arsenic				U	ND	mg/L					08/29/24	10:05
Iron				U	ND	mg/L					08/28/24	15:38
QC1205831932 682057002 MS												
Arsenic	0.0500	J	0.0142		0.0667	mg/L		105	(75%-125%)		08/29/24	10:11
Iron	2.00		365		379	mg/L		N/A	(75%-125%)		08/28/24	15:49
QC1205831933 682057002 MSD												
Arsenic	0.0500	J	0.0142		0.0658	mg/L	1.35	103	(0%-20%)		08/29/24	10:13
Iron	2.00		365		379	mg/L	0.109	N/A	(0%-20%)		08/28/24	15:53
QC1205831934 682057002 SDILT												
Arsenic		J	2.84	U	ND	ug/L	N/A		(0%-20%)		08/29/24	10:17
Iron			18200		3790	ug/L	3.88		(0%-20%)		08/28/24	15:56

Notes:

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

QC Summary

Workorder: **682057**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 682057

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661561

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661560

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682057002	MCM-DR-03(08162024)(2418)
682057004	MCM-DR-03(08172024)(2675)
682057006	MCM-DR-03(08172024)(3136)
682057008	MCM-DR-03(08182024)(3386)
682057010	MCM-DR-03(08182024)(3861)
682057011	MCM-DR-03(08192024)(4329)
1205831930	Method Blank (MB)**ICP-MS**
1205831931	Laboratory Control Sample (LCS)
1205831934	682057002(MCM-DR-03(08162024)(2418)L) Serial Dilution (SD)
1205831932	682057002(MCM-DR-03(08162024)(2418)S) Matrix Spike (MS)
1205831933	682057002(MCM-DR-03(08162024)(2418)SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 682057002 (MCM-DR-03(08162024)(2418)), 682057004 (MCM-DR-03(08172024)(2675)), 682057006 (MCM-DR-03(08172024)(3136)), 682057008 (MCM-DR-03(08182024)(3386)), 682057010 (MCM-DR-03(08182024)(3861)) and 682057011 (MCM-DR-03(08192024)(4329)) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 682057002 (MCM-DR-03(08162024)(2418)) and 682057011 (MCM-DR-03(08192024)(4329)) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	682057					
	002	**004**	**006**	**008**	**010**	**011**
Arsenic						5X
Iron	20X	20X	20X	20X	20X	20X

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: 682057 GEL Project Manager: Erin Trent/Alaina Pinnick

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682057

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus Injection Pilot Dose Response Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Robert Shealy, Jess Ware, Grant Wilford (Arcadis US Inc.) Send Results To: knjurink@southernco.com; kathryn.farris@arcadis.com

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (if yes, please supply isotopic info.)	Should this sample be considered: (X) Known or possible Hazards	Total number of containers	Total Metals (6020B) - Fe, As	Total Metals (6020B) - Fe								Comments
									NI	NI								<-- Preservative Type (6)
MCM-DR-03(8162024)(2181)	8/16/2024	10:53	G	N	GW				HOLD									HOLD
MCM-DR-03(8162024)(2418)	8/16/2024	13:33	G	N	GW					x								
MCM-DR-03(8162024)(2675)	8/16/2024	16:07	G	N	GW				HOLD									HOLD
MCM-DR-03(8172024)(2675)	8/17/2024	7:50	G	N	GW					x								
MCM-DR-03(8172024)(2899)	8/17/2024	10:44	G	N	GW				HOLD									HOLD
MCM-DR-03(8172024)(3136)	8/17/2024	13:55	G	N	GW					x								
MCM-DR-03(8172024)(3386)	8/17/2024	16:55	G	N	GW				HOLD									HOLD
MCM-DR-03(8182024)(3386)	8/18/2024	9:20	G	N	GW					x								
MCM-DR-03(8182024)(3626)	8/18/2024	13:00	G	N	GW				HOLD									HOLD
MCM-DR-03(8182024)(3861)	8/18/2024	16:55	G	N	GW					x								
MCM-DR-03(8192024)(4329)	8/19/2024	17:55	G	N	GW				x									

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/21/24	1050		8/21/24	1050
2						
3						

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: Task Code: MCM-CCR-CA-20240812

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

Sample Collection Time Zone [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg = Mercury
Ba = Barium Se = Selenium
Cd = Cadmium Ag = Silver
Cr = Chromium MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e., High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

***Please provide any additional details below regarding handling and/or disposal concerns.** (i.e. Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

6820064 6820065
6820057 6820061
6820063 6820058
6820066 6820037 6820051
6820041 6820049

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

A.P.

Client: GPCC	SDG/AR/COC/Work Order:
Received By: Thyasia Tatum	Date Received: 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other)

Suspected Hazard Information	Yes	No	
		✓	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date 8/22/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 05 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

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843.556.8171
gel.com

September 05, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus Injection Pilot Dose Response
Work Order: 682058

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 21, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682058001	MCM-PT-03(08132024)(0000)	Ground Water	08/13/24 08:12	08/21/24 10:50
682058002	MCM-PT-03(08132024)(0472)	Ground Water	08/13/24 15:51	08/21/24 10:50
682058003	MCM-PT-03(08142024)(0472)	Ground Water	08/14/24 08:37	08/21/24 10:50
682058004	MCM-PT-03(08142024)(0938)	Ground Water	08/14/24 13:10	08/21/24 10:50
682058005	MCM-PT-03(08142024)(1181)	Ground Water	08/14/24 15:40	08/21/24 10:50
682058006	MCM-PT-03(08152024)(1181)	Ground Water	08/15/24 08:40	08/21/24 10:50
682058007	MCM-PT-03(08152024)(1570)	Ground Water	08/15/24 12:02	08/21/24 10:50
682058008	MCM-PT-03(08152024)(1688)	Ground Water	08/15/24 13:22	08/21/24 10:50
682058009	MCM-PT-03(08152024)(1927)	Ground Water	08/15/24 16:15	08/21/24 10:50
682058010	MCM-PT-03(08162024)(1927)	Ground Water	08/16/24 08:30	08/21/24 10:50

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	27-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	31-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Will James for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682058 GEL Work Order: 682058

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Will James

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-03(08132024)(0000)	Project:	GPCC00124
Sample ID:	682058001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	13-AUG-24 08:12		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		8.21	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1437	2661548	1
Arsenic		0.0642	0.0100	0.0250	mg/L	1.00	5	BAJ	08/31/24	1407	2661548	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-03(08142024)(0472)	Project:	GPCC00124
Sample ID:	682058003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	14-AUG-24 08:37		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		33.9	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1438	2661548	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-03(08142024)(0938)	Project:	GPCC00124
Sample ID:	682058004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	14-AUG-24 13:10		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		20.3	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1439	2661548	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-03(08142024)(1181)	Project:	GPCC00124
Sample ID:	682058005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	14-AUG-24 15:40		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		9.06	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1441	2661548	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-03(08152024)(1181)	Project:	GPCC00124
Sample ID:	682058006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-AUG-24 08:40		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		23.8	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1442	2661548	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-03(08152024)(1570)	Project:	GPCC00124
Sample ID:	682058007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-AUG-24 12:02		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		1.49	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1446	2661548	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-03(08152024)(1688)	Project:	GPCC00124
Sample ID:	682058008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-AUG-24 13:22		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		3.08	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1447	2661548	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-03(08162024)(1927)	Project:	GPCC00124
Sample ID:	682058010	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-AUG-24 08:30		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		20.5	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1449	2661548	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: September 5, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **682058**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2661548												
QC1205831877 LCS												
Arsenic	0.0500				0.0512	mg/L		102	(80%-120%)	BAJ	08/31/24	13:54
Iron	2.00				1.99	mg/L		99.4	(80%-120%)			
QC1205831876 MB												
Arsenic				U	ND	mg/L					08/31/24	13:52
Iron				U	ND	mg/L						
QC1205831878 682051001 MS												
Arsenic	0.0500	J	0.0101		0.0617	mg/L		103	(75%-125%)		08/31/24	13:56
Iron	2.00		7.36		9.24	mg/L		93.8	(75%-125%)		08/31/24	15:02
QC1205831879 682051001 MSD												
Arsenic	0.0500	J	0.0101		0.0605	mg/L	1.87	101	(0%-20%)		08/31/24	13:57
Iron	2.00		7.36		9.03	mg/L	2.23	83.6	(0%-20%)		08/31/24	15:03
QC1205831880 682051001 SDILT												
Arsenic		J	2.02	U	ND	ug/L	N/A		(0%-20%)		08/31/24	14:00
Iron			7360		1630	ug/L	10.7		(0%-20%)		08/31/24	15:06

Notes:

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

QC Summary

Workorder: **682058**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 682058

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661548

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661547

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682058001	MCM-PT-03(08132024)(0000)
682058003	MCM-PT-03(08142024)(0472)
682058004	MCM-PT-03(08142024)(0938)
682058005	MCM-PT-03(08142024)(1181)
682058006	MCM-PT-03(08152024)(1181)
682058007	MCM-PT-03(08152024)(1570)
682058008	MCM-PT-03(08152024)(1688)
682058010	MCM-PT-03(08162024)(1927)
1205831876	Method Blank (MB)**ICP-MS**
1205831877	Laboratory Control Sample (LCS)
1205831880	682051001(MCM-PT02 (08132024)(0000)L) Serial Dilution (SD)
1205831878	682051001(MCM-PT02 (08132024)(0000)S) Matrix Spike (MS)
1205831879	682051001(MCM-PT02 (08132024)(0000)SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Per the SOP, samples were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	682058
	001
Arsenic	5X

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number (1): _____
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: 682058
GEL Project Manager: Erin Trent/Alaina Pinnick

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682058

Client Name: Kristen Jurinko — Phone #
Project/Site Name: Plant McManus Injection Pilot Dose Response — Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Robert Shealy, Jess Ware, Grant Wilford (Arcadis US Inc.) — Send Results To: knjurink@southernco.com; kathryn.farris@arcadis.com

682058 08/26/2024

Sample ID (*For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test): NI — Total Metals (6020B) - Fe, As	NI — Total Metals (6020B) - Fe	<-- Preservative Type (6)	Comments
MCM-PT-03(08132024)(0000)	8/13/2024	8:12	G	N	GW				x			Samples may contain low levels of deuterium
MCM-PT-03(08132024)(0472)	8/13/2024	15:51	G	N	GW				HOLD			HOLD
MCM-PT-03(08142024)(0472)	8/14/2024	8:37	G	N	GW					x		
MCM-PT-03(08142024)(0938)	8/14/2024	13:10	G	N	GW					x		
MCM-PT-03(08142024)(1181)	8/14/2024	15:40	G	N	GW					x		
MCM-PT-03(08152024)(1181)	8/15/2024	8:40	G	N	GW					x		
MCM-PT-03(08152024)(1570)	8/15/2024	12:02	G	N	GW					x		
MCM-PT-03(08152024)(1688)	8/15/2024	13:22	G	N	GW					x		
MCM-PT-03(08152024)(1927)	8/15/2024	16:15	G	N	GW				HOLD			HOLD
MCM-PT-03(08162024)(1927)	8/16/2024	8:30	G	N	GW					x		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	8/24/24	1050	[signature]	8/24/24	1050
2						
3						

TAT Requested: Normal: __X__ Rush: _____ Specify: _____ (Subject to Surcharge)
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: Task Code: MCM-CCR-CA-20240812
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

-> For sample shipping and delivery details, see Sample Receipt & Review form (SRR)

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Hg = Mercury
Ba = Barium; Se = Selenium
Cd = Cadmium; Ag = Silver
Cr = Chromium; MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e., Origin of sample(s), type of site collected from, odd matrices, etc.)

Dissolved metals are the only Field Filterd Samples

6820064 6820065
6820057 6820061
6820063 6820058
6820066 6820037 6820051
6820041 6820049

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order: A-D.
Received By: Thyasia Tatum	Date Received: 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other)

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date 8/22/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 05 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 05, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus Injection Pilot Dose Response
Work Order: 682064

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 21, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682064001	MCM-PT-03(08162024)(2181)	Ground Water	08/16/24 10:41	08/21/24 10:50
682064002	MCM-PT-03(08162024)(2421)	Ground Water	08/16/24 13:20	08/21/24 10:50
682064003	MCM-PT-03(08162024)(2675)	Ground Water	08/16/24 15:45	08/21/24 10:50
682064004	MCM-PT-03(08172024)(2675)	Ground Water	08/17/24 07:54	08/21/24 10:50
682064005	MCM-PT-03(08172024)(2899)	Ground Water	08/17/24 10:35	08/21/24 10:50
682064006	MCM-PT-03(08172024)(3136)	Ground Water	08/17/24 13:45	08/21/24 10:50
682064007	MCM-PT-03(08172024)(3386)	Ground Water	08/17/24 17:05	08/21/24 10:50
682064008	MCM-PT-03(08182024)(3386)	Ground Water	08/18/24 08:36	08/21/24 10:50
682064009	MCM-PT-03(08182024)(3626)	Ground Water	08/18/24 12:52	08/21/24 10:50
682064010	MCM-PT-03(08192024)(3861)	Ground Water	08/18/24 16:30	08/21/24 10:50
682064011	MCM-PT-03(08182024)(4329)	Ground Water	08/19/24 17:45	08/21/24 12:00

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	26-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	28-AUG-2024
SW846 3005A/6020B	29-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682064 GEL Work Order: 682064

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-03(08162024)(2181)	Project:	GPCC00124
Sample ID:	682064001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-AUG-24 10:41		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		13.0	0.0330	0.100	mg/L	1.00	1	RM4	08/28/24	1752	2661561	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-03(08162024)(2421)	Project:	GPCC00124
Sample ID:	682064002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-AUG-24 13:20		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		10.7	0.0330	0.100	mg/L	1.00	1	RM4	08/28/24	1756	2661561	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-03(08162024)(2675)	Project:	GPCC00124
Sample ID:	682064003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-AUG-24 15:45		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		29.8	0.0330	0.100	mg/L	1.00	1	RM4	08/28/24	1800	2661561	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-03(08172024)(2675)	Project:	GPCC00124
Sample ID:	682064004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-AUG-24 07:54		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		38.1	0.0330	0.100	mg/L	1.00	1	RM4	08/28/24	1804	2661561	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-03(08172024)(2899)	Project:	GPCC00124
Sample ID:	682064005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-AUG-24 10:35		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		27.5	0.0330	0.100	mg/L	1.00	1	RM4	08/28/24	1807	2661561	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-03(08172024)(3136)	Project:	GPCC00124
Sample ID:	682064006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-AUG-24 13:45		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		60.7	0.660	2.00	mg/L	1.00	20	RM4	08/28/24	1626	2661561	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-03(08182024)(3386)	Project:	GPCC00124
Sample ID:	682064008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-AUG-24 08:36		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		9.44	0.0330	0.100	mg/L	1.00	1	RM4	08/28/24	1815	2661561	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-03(08192024)(3861)	Project:	GPCC00124
Sample ID:	682064010	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-AUG-24 16:30		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		83.6	0.660	2.00	mg/L	1.00	20	RM4	08/28/24	1630	2661561	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-03(08182024)(4329)	Project:	GPCC00124
Sample ID:	682064011	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-AUG-24 17:45		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		55.2	0.660	2.00	mg/L	1.00	20	RM4	08/28/24	1634	2661561	1
Arsenic		0.147	0.0100	0.0250	mg/L	1.00	5	RM4	08/29/24	1030	2661561	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: September 5, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **682064**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2661561												
QC1205831931 LCS												
Arsenic	0.0500				0.0524	mg/L		105	(80%-120%)	RM4	08/29/24	10:07
Iron	2.00				2.05	mg/L		102	(80%-120%)		08/28/24	15:41
QC1205831930 MB												
Arsenic				U	ND	mg/L					08/29/24	10:05
Iron				U	ND	mg/L					08/28/24	15:38
QC1205831932 682057002 MS												
Arsenic	0.0500	J	0.0142		0.0667	mg/L		105	(75%-125%)		08/29/24	10:11
Iron	2.00		365		379	mg/L		N/A	(75%-125%)		08/28/24	15:49
QC1205831933 682057002 MSD												
Arsenic	0.0500	J	0.0142		0.0658	mg/L	1.35	103	(0%-20%)		08/29/24	10:13
Iron	2.00		365		379	mg/L	0.109	N/A	(0%-20%)		08/28/24	15:53
QC1205831934 682057002 SDILT												
Arsenic		J	2.84	U	ND	ug/L	N/A		(0%-20%)		08/29/24	10:17
Iron			18200		3790	ug/L	3.88		(0%-20%)		08/28/24	15:56

Notes:

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

QC Summary

Workorder: **682064**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 682064

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661561

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661560

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682064001	MCM-PT-03(08162024)(2181)
682064002	MCM-PT-03(08162024)(2421)
682064003	MCM-PT-03(08162024)(2675)
682064004	MCM-PT-03(08172024)(2675)
682064005	MCM-PT-03(08172024)(2899)
682064006	MCM-PT-03(08172024)(3136)
682064008	MCM-PT-03(08182024)(3386)
682064010	MCM-PT-03(08192024)(3861)
682064011	MCM-PT-03(08182024)(4329)
1205831930	Method Blank (MB)**ICP-MS**
1205831931	Laboratory Control Sample (LCS)
1205831934	682057002(MCM-DR-03(08162024)(2418)L) Serial Dilution (SD)
1205831932	682057002(MCM-DR-03(08162024)(2418)S) Matrix Spike (MS)
1205831933	682057002(MCM-DR-03(08162024)(2418)SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 682064006 (MCM-PT-03(08172024)(3136)), 682064010 (MCM-PT-03(08192024)(3861)) and 682064011 (MCM-PT-03(08182024)(4329)) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, sample 682064011 (MCM-PT-03(08182024)(4329)) was diluted due to internal standard recoveries outside the acceptable

control limits.

Analyte	682064		
	006	**010**	**011**
Arsenic			5X
Iron	20X	20X	20X

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: 682064
GEL Project Manager: Erin Trent/Alaina Pinnick

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682064

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus Injection Pilot Dose Response Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Robert Shealy, Jess Ware, Grant Wilford (Arcadis US Inc.) Send Results To: knjurink@southernco.com; kathryn.farris@arcadis.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID *For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (if yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - Fe, As	NI Total Metals (6020B) - Fe	Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
MCM-PT-03(08162024)(2181)	8/16/2024	10:41	G	N	GW					x		Samples may contain low levels of deuterium
MCM-PT-03(08162024)(2421)	8/16/2024	13:20	G	N	GW					x		
MCM-PT-03(08162024)(2675)	8/16/2024	15:45	G	N	GW					x		
MCM-PT-03(08172024)(2675)	8/17/2024	7:54	G	N	GW					x		
MCM-PT-03(08172024)(2899)	8/17/2024	10:35	G	N	GW					x		
MCM-PT-03(08172024)(3136)	8/17/2024	13:45	G	N	GW					x		
MCM-PT-03(08172024)(3386)	8/17/2024	17:05	G	N	GW				HOLD			HOLD
MCM-PT-03(08182024)(3386)	8/18/2024	8:36	G	N	GW					x		
MCM-PT-03(08182024)(3626) *	8/18/2024	12:52	G	N	GW				HOLD			HOLD
MCM-PT-03(08182024)(3861)	8/18/2024	16:30	G	N	GW					x		
MCM-PT-03(08192024)(4329)	8/19/2024	17:45	G	N	GW				x			

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/21/24	1050		8/21/24	1050
2						
3						

TAT Requested: Normal: __X__ Rush: _____ Specify: _____ (Subject to Surcharge)
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: Task Code: MCM-CCR-CA-20240812
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

* For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg = Mercury
Ba = Barium Se = Selenium
Cd = Cadmium Ag = Silver
Cr = Chromium MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Dissolved metals are the only Field Filterd Samples

6820064 6820065
6820057 6820061
6820063 6820058
6820066 6820037 6820051
6820041 6820049

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order: A-D.
Received By: Thyasia Tatum	Date Received: 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other)

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date 8/22/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 05 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 05, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus Injection Pilot Dose Response
Work Order: 682065

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 21, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682065001	MCM-DR-02(08132024)(0000)	Ground Water	08/13/24 08:30	08/21/24 10:50
682065002	MCM-DR-02(08132024)(0472)	Ground Water	08/13/24 16:20	08/21/24 10:50
682065003	MCM-DR-02(08142024)(0612)	Ground Water	08/14/24 09:18	08/21/24 10:50
682065004	MCM-DR-02(08142024)(0938)	Ground Water	08/14/24 13:22	08/21/24 10:50
682065005	MCM-DR-02(08142024)(1181)	Ground Water	08/14/24 15:47	08/21/24 10:50
682065006	MCM-DR-02(08152024)(1181)	Ground Water	08/15/24 08:50	08/21/24 10:50
682065007	MCM-DR-02(08152024)(1590)	Ground Water	08/15/24 12:10	08/21/24 10:50
682065008	MCM-DR-02(08152024)(1688)	Ground Water	08/15/24 13:30	08/21/24 10:50
682065009	MCM-DR-02(08152024)(1927)	Ground Water	08/15/24 16:25	08/21/24 10:50
682065010	MCM-DR-02(08162024)(1957)	Ground Water	08/16/24 08:46	08/21/24 10:50

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	27-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	31-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Will James for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682065 GEL Work Order: 682065

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Will James

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-02(08132024)(0000)	Project:	GPCC00124
Sample ID:	682065001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	13-AUG-24 08:30		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		19.3	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1948	2661564	1
Arsenic		0.347	0.0100	0.0250	mg/L	1.00	5	BAJ	08/31/24	2003	2661564	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661562

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-02(08142024)(0938)	Project:	GPCC00124
Sample ID:	682065004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	14-AUG-24 13:22		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		67.5	0.165	0.500	mg/L	1.00	5	BAJ	08/31/24	2025	2661564	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661562

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-02(08152024)(1181)	Project:	GPCC00124
Sample ID:	682065006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-AUG-24 08:50		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		21.6	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	2028	2661564	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661562

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-02(08152024)(1688)	Project:	GPCC00124
Sample ID:	682065008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-AUG-24 13:30		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		5.74	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	2034	2661564	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661562

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-02(08162024)(1957)	Project:	GPCC00124
Sample ID:	682065010	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-AUG-24 08:46		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		11.6	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	2039	2661564	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661562

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: September 5, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **682065**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661564										
QC1205831936 LCS										
Arsenic	0.0500			0.0501	mg/L		100	(80%-120%)	BAJ	08/31/24 19:40
Iron	2.00			1.98	mg/L		98.9	(80%-120%)		
QC1205831935 MB										
Arsenic			U	ND	mg/L					08/31/24 19:37
Iron			U	ND	mg/L					
QC1205831937 682065001 MS										
Arsenic	0.0500	0.347		0.397	mg/L		N/A	(75%-125%)		08/31/24 20:05
Iron	2.00	19.3		20.5	mg/L		N/A	(75%-125%)		08/31/24 19:51
QC1205831938 682065001 MSD										
Arsenic	0.0500	0.347		0.401	mg/L	0.996	N/A	(0%-20%)		08/31/24 20:08
Iron	2.00	19.3		20.8	mg/L	1.34	N/A	(0%-20%)		08/31/24 19:54
QC1205831939 682065001 SDILT										
Arsenic		69.3		14.1	ug/L	1.81		(0%-20%)		08/31/24 20:14
Iron		19300		4190	ug/L	8.92		(0%-20%)		08/31/24 20:00

Notes:

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

QC Summary

Workorder: **682065**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 682065

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661564

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661562

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682065001	MCM-DR-02(08132024)(0000)
682065004	MCM-DR-02(08142024)(0938)
682065006	MCM-DR-02(08152024)(1181)
682065008	MCM-DR-02(08152024)(1688)
682065010	MCM-DR-02(08162024)(1957)
1205831935	Method Blank (MB)**ICP-MS**
1205831936	Laboratory Control Sample (LCS)
1205831939	682065001(MCM-DR-02(08132024)(0000)L) Serial Dilution (SD)
1205831937	682065001(MCM-DR-02(08132024)(0000)S) Matrix Spike (MS)
1205831938	682065001(MCM-DR-02(08132024)(0000)SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 682065004 (MCM-DR-02(08142024)(0938)) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument. Per the SOP, sample 682065001 (MCM-DR-02(08132024)(0000)) was diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	682065	
	001	004

Arsenic	5X	
Iron	1X	5X

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent/Alaina Pinnick

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

680265

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus Injection Pilot Dose Response Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Robert Shealy, Jess Ware, Grant Wilford (Arcadis US Inc.) Send Results To: knjurink@southernco.com; kathryn.farris@arcadis.com

Sample ID *For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: (1) Radioactive (If yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - Fe, As	Total Metals (6020B) - Fe							Comments Note: extra sample is required for sample specific QC
									NI	NI							<-- Preservative Type (6)
MCM-DR-02(08132024)(0000)	8/13/2024	8:30	G	N	GW				x								Samples may contain low levels of deuterium
MCM-DR-02(08132024)(0472)	8/13/2024	16:20	G	N	GW				HOLD								HOLD
MCM-DR-02(08142024)(0612)	8/14/2024	9:18	G	N	GW				HOLD								HOLD
MCM-DR-02(08142024)(0938)	8/14/2024	13:22	G	N	GW					x							
MCM-DR-02(08142024)(1181)	8/14/2024	15:47	G	N	GW				HOLD								HOLD
MCM-DR-02(08152024)(1181)	8/15/2024	8:50	G	N	GW					x							
MCM-DR-02(08152024)(1590)	8/15/2024	12:10	G	N	GW				HOLD								HOLD
MCM-DR-02(08152024)(1688)	8/15/2024	13:30	G	N	GW					x							
MCM-DR-02(08152024)(1927)	8/15/2024	16:25	G	N	GW				HOLD								HOLD
MCM-DR-02(08162024)~~(1927)~~ KS (1957)	8/16/2024	8:46	G	N	GW					x							

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	8/21/24	1050	[signature]	8/21/24	1050
2						
3						

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-CA-20240812**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR).***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. ***8260B, 6010B/7470A***) and number of containers provided for each (i.e. ***8260B - 3, 6010B/7470A - 1***).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SB** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e. Origin of sample(s), type of site collected from, odd matrices, etc.)*

****Dissolved metals are the only Field Filterd Samples****

6820064 6820065
6820057 6820061
6820063 6820058
6820066 6820037 6820051
6820041 6820049

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

A-D.

Client: GPCC	SDG/AR/COC/Work Order:
Received By: Thyasia Tatum	Date Received: 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other)

Suspected Hazard Information	Yes	No	
		✓	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date 8/22/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 05 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 05, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus Injection Pilot Dose Response
Work Order: 682066

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 21, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682066001	MCM-DR-02(08162024)(2181)	Ground Water	08/16/24 11:00	08/21/24 10:50
682066002	MCM-DR-02(08162024)(2421)	Ground Water	08/16/24 13:12	08/21/24 10:50
682066003	MCM-DR-02(08162024)(2675)	Ground Water	08/16/24 15:35	08/21/24 10:50
682066004	MCM-DR-02(08172024)(2724)	Ground Water	08/17/24 08:20	08/21/24 10:50
682066005	MCM-DR-02(08172024)(2899)	Ground Water	08/17/24 10:27	08/21/24 10:50
682066006	MCM-DR-02(08172024)(3136)	Ground Water	08/17/24 13:35	08/21/24 10:50
682066007	MCM-DR-02(08172024)(3386)	Ground Water	08/17/24 17:15	08/21/24 10:50
682066008	MCM-DR-02(08182024)(3386)	Ground Water	08/18/24 08:15	08/21/24 10:50
682066009	MCM-DR-02(08182024)(3626)	Ground Water	08/18/24 12:44	08/21/24 10:50
682066010	MCM-DR-02(08182024)(3861)	Ground Water	08/18/24 16:03	08/21/24 10:50
682066011	MCM-DR-02(08192024)(4329)	Ground Water	08/19/24 15:20	08/21/24 10:50

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

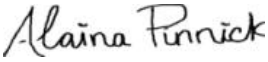
Method	Run Date ID
SW846 3005A	26-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	28-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682066 GEL Work Order: 682066

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-02(08162024)(2181)	Project:	GPCC00124
Sample ID:	682066001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-AUG-24 11:00		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		0.450	0.0330	0.100	mg/L	1.00	1	RM4	08/28/24	1216	2661553	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-02(08162024)(2421)	Project:	GPCC00124
Sample ID:	682066002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-AUG-24 13:12		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		0.421	0.0330	0.100	mg/L	1.00	1	RM4	08/28/24	1146	2661553	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-02(08172024)(2724)	Project:	GPCC00124
Sample ID:	682066004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-AUG-24 08:20		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		0.738	0.0330	0.100	mg/L	1.00	1	RM4	08/28/24	1150	2661553	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-02(08172024)(2899)	Project:	GPCC00124
Sample ID:	682066005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-AUG-24 10:27		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		0.499	0.0330	0.100	mg/L	1.00	1	RM4	08/28/24	1154	2661553	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-02(08172024)(3136)	Project:	GPCC00124
Sample ID:	682066006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-AUG-24 13:35		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		15.6	0.0330	0.100	mg/L	1.00	1	RM4	08/28/24	1158	2661553	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-02(08172024)(3386)	Project:	GPCC00124
Sample ID:	682066007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-AUG-24 17:15		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		0.881	0.0330	0.100	mg/L	1.00	1	RM4	08/28/24	1201	2661553	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-02(08182024)(3386)	Project:	GPCC00124
Sample ID:	682066008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-AUG-24 08:15		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		0.701	0.0330	0.100	mg/L	1.00	1	RM4	08/28/24	1205	2661553	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-02(08182024)(3861)	Project:	GPCC00124
Sample ID:	682066010	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-AUG-24 16:03		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		0.154	0.0330	0.100	mg/L	1.00	1	RM4	08/28/24	1209	2661553	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-DR-02(08192024)(4329)	Project:	GPCC00124
Sample ID:	682066011	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-AUG-24 15:20		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic		0.0595	0.00200	0.0100	mg/L	1.00	1	RM4	08/28/24	1213	2661553	1
Iron		0.858	0.0330	0.100	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661551

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
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QC Summary

Report Date: September 5, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **682066**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661553										
QC1205831887 LCS										
Arsenic	0.0500			0.0523	mg/L		105	(80%-120%)	RM4	08/28/24 11:16
Iron	2.00			2.02	mg/L		101	(80%-120%)		
QC1205831886 MB										
Arsenic			U	ND	mg/L					08/28/24 11:13
Iron			U	ND	mg/L					
QC1205831888 682066001 MS										
Arsenic	0.0500	0.0428		0.0931	mg/L		100	(75%-125%)		08/28/24 11:24
Iron	2.00	0.450		2.23	mg/L		88.9	(75%-125%)		
QC1205831889 682066001 MSD										
Arsenic	0.0500	0.0428		0.0895	mg/L	3.92	93.3	(0%-20%)		08/28/24 11:28
Iron	2.00	0.450		2.14	mg/L	4.1	84.4	(0%-20%)		
QC1205831890 682066001 SDILT										
Arsenic		42.8		10.2	ug/L	18.8		(0%-20%)		08/28/24 11:35
Iron		450		100	ug/L	11.2		(0%-20%)		

Notes:

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

QC Summary

Workorder: **682066**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 682066

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661553

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661551

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682066001	MCM-DR-02(08162024)(2181)
682066002	MCM-DR-02(08162024)(2421)
682066004	MCM-DR-02(08172024)(2724)
682066005	MCM-DR-02(08172024)(2899)
682066006	MCM-DR-02(08172024)(3136)
682066007	MCM-DR-02(08172024)(3386)
682066008	MCM-DR-02(08182024)(3386)
682066010	MCM-DR-02(08182024)(3861)
682066011	MCM-DR-02(08192024)(4329)
1205831886	Method Blank (MB)**ICP-MS**
1205831887	Laboratory Control Sample (LCS)
1205831890	682066001(MCM-DR-02(08162024)(2181)L) Serial Dilution (SD)
1205831888	682066001(MCM-DR-02(08162024)(2181)S) Matrix Spike (MS)
1205831889	682066001(MCM-DR-02(08162024)(2181)SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number (1):
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: 680266 GEL Project Manager: Erin Trent/Alaina Pinnick

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

680266

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus Injection Pilot Dose Response Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Robert Shealy, Jess Ware, Grant Wilford (Arcadis US Inc.) Send Results To: knjurink@southernco.com; kathryn.farris@arcadis.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: (7) Radioactive (If yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - Fe, As	Total Metals (6020B) - Fe							Comments
									NI	NI							<-- Preservative Type (6)
MCM-DR-02(8162024)(2181)	8/16/2024	11:00	G	N	GW					x							Samples may contain low levels of deuterium
MCM-DR-02(8162024)(2421)	8/16/2024	13:12	G	N	GW					x							
MCM-DR-02(8162024)(2675)	8/16/2024	15:35	G	N	GW				HOLD								HOLD
MCM-DR-02(8172024)(2724)	8/17/2024	8:20	G	N	GW					x							
MCM-DR-02(8172024)(2899)	8/17/2024	10:27	G	N	GW					x							
MCM-DR-02(8172024)(3136)	8/17/2024	13:35	G	N	GW					x							
MCM-DR-02(8172024)(3386)	8/17/2024	17:15	G	N	GW					x							
MCM-DR-02(8182024)(3386)	8/18/2024	8:15	G	N	GW					x							
MCM-DR-02(8182024)(3626)	8/18/2024	12:44	G	N	GW				HOLD								HOLD
MCM-DR-02(8182024)(3861)	8/18/2024	16:03	G	N	GW					x							
MCM-DR-02(8192024)(4329)	8/19/2024	15:20	G	N	GW				X								

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	8/21/24	1050	[signature]	8/21/24	1050
2						
3						

TAT Requested: Normal: X Rush: Specify: (Subject to Surcharge)
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: Task Code: MCM-CCR-CA-20240812
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

Sample Collection Time Zone [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg = Mercury
Ba = Barium Se = Selenium
Cd = Cadmium Ag = Silver
Cr = Chromium MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Dissolved metals are the only Field Filtered Samples

6820064 6820065
6820057 6820061
6820063 6820058
6820066 6820037 6820051
6820041 6820049

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

A-P.

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: Thyasia Tatum	**Date Received:** 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other)

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date 8/22/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 05 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 05, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus Injection Pilot Dose Response
Work Order: 682063

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 21, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682063001	DR-01(08132024)(0000)	Ground Water	08/13/24 10:02	08/21/24 10:50
682063002	DR-01(08132024)(0472)	Ground Water	08/13/24 17:26	08/21/24 10:50
682063003	DR-01(08142024)(0579)	Ground Water	08/14/24 09:10	08/21/24 10:50
682063004	DR-01(08152024)(1250)	Ground Water	08/15/24 09:21	08/21/24 10:50
682063005	DR-01(08162024)(2010)	Ground Water	08/16/24 09:10	08/21/24 10:50
682063006	DR-01(08172024)(2792)	Ground Water	08/17/24 09:07	08/21/24 10:50
682063007	DR-01(08182024)(3386)	Ground Water	08/18/24 08:55	08/21/24 10:50
682063008	DR-01(08192024)(4329)	Ground Water	08/19/24 15:50	08/21/24 10:50

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

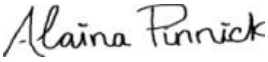
Method	Run Date ID
SW846 3005A	26-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	28-AUG-2024
SW846 3005A/6020B	29-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682063 GEL Work Order: 682063

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	DR-01(08132024)(0000)	Project:	GPCC00124
Sample ID:	682063001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	13-AUG-24 10:02		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	J	0.0242	0.0100	0.0250	mg/L	1.00	5	RM4	08/29/24	1026	2661561	1
Iron		2.05	0.0330	0.100	mg/L	1.00	1	RM4	08/28/24	1730	2661561	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	DR-01(08162024)(2010)	Project:	GPCC00124
Sample ID:	682063005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-AUG-24 09:10		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		4.12	0.0330	0.100	mg/L	1.00	1	RM4	08/28/24	1734	2661561	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	DR-01(08172024)(2792)	Project:	GPCC00124
Sample ID:	682063006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	17-AUG-24 09:07		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		11.1	0.0330	0.100	mg/L	1.00	1	RM4	08/28/24	1737	2661561	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	DR-01(08192024)(4329)	Project:	GPCC00124
Sample ID:	682063008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-AUG-24 15:50		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic		0.0789	0.0100	0.0250	mg/L	1.00	5	RM4	08/29/24	1028	2661561	1
Iron		3.35	0.0330	0.100	mg/L	1.00	1	RM4	08/28/24	1741	2661561	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661560

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: September 5, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **682063**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2661561												
QC1205831931 LCS												
Arsenic	0.0500				0.0524	mg/L		105	(80%-120%)	RM4	08/29/24	10:07
Iron	2.00				2.05	mg/L		102	(80%-120%)		08/28/24	15:41
QC1205831930 MB												
Arsenic				U	ND	mg/L					08/29/24	10:05
Iron				U	ND	mg/L					08/28/24	15:38
QC1205831932 682057002 MS												
Arsenic	0.0500	J	0.0142		0.0667	mg/L		105	(75%-125%)		08/29/24	10:11
Iron	2.00		365		379	mg/L		N/A	(75%-125%)		08/28/24	15:49
QC1205831933 682057002 MSD												
Arsenic	0.0500	J	0.0142		0.0658	mg/L	1.35	103	(0%-20%)		08/29/24	10:13
Iron	2.00		365		379	mg/L	0.109	N/A	(0%-20%)		08/28/24	15:53
QC1205831934 682057002 SDILT												
Arsenic		J	2.84	U	ND	ug/L	N/A		(0%-20%)		08/29/24	10:17
Iron			18200		3790	ug/L	3.88		(0%-20%)		08/28/24	15:56

Notes:

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

QC Summary

Workorder: **682063**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 682063

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661561

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661560

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682063001	DR-01(08132024)(0000)
682063005	DR-01(08162024)(2010)
682063006	DR-01(08172024)(2792)
682063008	DR-01(08192024)(4329)
1205831930	Method Blank (MB)**ICP-MS**
1205831931	Laboratory Control Sample (LCS)
1205831934	682057002(MCM-DR-03(08162024)(2418)L) Serial Dilution (SD)
1205831932	682057002(MCM-DR-03(08162024)(2418)S) Matrix Spike (MS)
1205831933	682057002(MCM-DR-03(08162024)(2418)SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Per the SOP, samples 682063001 (DR-01(08132024)(0000)) and 682063008 (DR-01(08192024)(4329)) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	682063	
	001	008
Arsenic	5X	5X

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number (1): _____
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: 682063
GEL Project Manager: Erin Trent/Alaina Pinnick

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682063

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus Injection Pilot Dose Response Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Robert Shealy, Jess Ware, Grant Wilford (Arcadis US Inc.) Send Results To: knjurink@southernco.com; kathryn.farris@arcadis.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - Fe, As	NI Total Metals (6020B) - Fe							<-- Preservative Type (6)	Comments
DR-01(08132024)(0000)	8/13/2024	10:02	G	N	GW				x									Samples may contain low levels of deuterium
DR-01(08132024)(0472)	8/13/2024	17:26	G	N	GW					HOLD								HOLD
DR-01(08142024)(0579)	8/14/2024	9:10	G	N	GW					HOLD								HOLD
DR-01(08152024)(1250)	8/15/2024	9:21	G	N	GW					HOLD								HOLD
DR-01(08162024)(2010)	8/16/2024	9:10	G	N	GW					x								
DR-01(08172024)(2792)	8/17/2024	9:07	G	N	GW					x								
DR-01(08182024)(3386)	8/18/2024	8:55	G	N	GW					HOLD								HOLD
DR-01(08192024)(4329)	8/19/2024	15:50	G	N	GW				x									

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	8/21/24	1050	[signature]	8/21/24	1050
2						
3						

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

TAT Requested: Normal: __X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240812**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ °C

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* **- 3**, *6010B/7470A* **- 1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Page 13 of 15 SDG: 682063

6820064 6820065
6820057 6820061
6820063 6820058
6820066 6820037 6820051
6820041 6820049

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order: A-D.
Received By: Thyasia Tatum	Date Received: 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other)

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date 8/22/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 05 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 05, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus Injection Pilot Dose Response
Work Order: 682061

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 21, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682061001	MCM-MCM-06(08132024)(0000)	Ground Water	08/13/24 09:45	08/21/24 10:50
682061002	MCM-MCM-06(08132024)(0472)	Ground Water	08/13/24 17:44	08/21/24 10:50
682061003	MCM-MCM-06(08142024)(0637)	Ground Water	08/14/24 09:26	08/21/24 10:50
682061004	MCM-MCM-06(08142024)(1181)	Ground Water	08/14/24 15:52	08/21/24 10:50
682061005	MCM-MCM-06(08152024)(1233)	Ground Water	08/15/24 09:13	08/21/24 10:50
682061006	MCM-MCM-06(08162024)(1983)	Ground Water	08/16/24 08:58	08/21/24 10:50
682061007	MCM-MCM-06(08172024)(2743)	Ground Water	08/17/24 08:33	08/21/24 10:50
682061008	MCM-MCM-06(08182024)(3386)	Ground Water	08/18/24 08:23	08/21/24 10:50
682061009	MCM-MCM-06(08192024)(4329)	Ground Water	08/19/24 15:40	08/21/24 10:50

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	27-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	31-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Will James for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682061 GEL Work Order: 682061

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Will James

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-MCM-06(08132024)(0000)	Project:	GPCC00124
Sample ID:	682061001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	13-AUG-24 09:45		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1450	2661548	1
Arsenic		0.0786	0.0100	0.0250	mg/L	1.00	5	BAJ	08/31/24	1420	2661548	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-MCM-06(08152024)(1233)	Project:	GPCC00124
Sample ID:	682061005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-AUG-24 09:13		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1451	2661548	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-MCM-06(08162024)(1983)	Project:	GPCC00124
Sample ID:	682061006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-AUG-24 08:58		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1452	2661548	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-MCM-06(08182024)(3386)	Project:	GPCC00124
Sample ID:	682061008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-AUG-24 08:23		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1454	2661548	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-MCM-06(08192024)(4329)	Project:	GPCC00124
Sample ID:	682061009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-AUG-24 15:40		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1455	2661548	1
Arsenic		0.0738	0.0100	0.0250	mg/L	1.00	5	BAJ	08/31/24	1425	2661548	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: September 5, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **682061**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2661548												
QC1205831877 LCS												
Arsenic	0.0500				0.0512	mg/L		102	(80%-120%)	BAJ	08/31/24	13:54
Iron	2.00				1.99	mg/L		99.4	(80%-120%)			
QC1205831876 MB												
Arsenic				U	ND	mg/L					08/31/24	13:52
Iron				U	ND	mg/L						
QC1205831878 682051001 MS												
Arsenic	0.0500	J	0.0101		0.0617	mg/L		103	(75%-125%)		08/31/24	13:56
Iron	2.00		7.36		9.24	mg/L		93.8	(75%-125%)		08/31/24	15:02
QC1205831879 682051001 MSD												
Arsenic	0.0500	J	0.0101		0.0605	mg/L	1.87	101	(0%-20%)		08/31/24	13:57
Iron	2.00		7.36		9.03	mg/L	2.23	83.6	(0%-20%)		08/31/24	15:03
QC1205831880 682051001 SDILT												
Arsenic		J	2.02	U	ND	ug/L	N/A		(0%-20%)		08/31/24	14:00
Iron			7360		1630	ug/L	10.7		(0%-20%)		08/31/24	15:06

Notes:

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

QC Summary

Workorder: **682061**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 682061

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661548

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661547

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682061001	MCM-MCM-06(08132024)(0000)
682061005	MCM-MCM-06(08152024)(1233)
682061006	MCM-MCM-06(08162024)(1983)
682061008	MCM-MCM-06(08182024)(3386)
682061009	MCM-MCM-06(08192024)(4329)
1205831876	Method Blank (MB)**ICP-MS**
1205831877	Laboratory Control Sample (LCS)
1205831880	682051001(MCM-PT02 (08132024)(0000)L) Serial Dilution (SD)
1205831878	682051001(MCM-PT02 (08132024)(0000)S) Matrix Spike (MS)
1205831879	682051001(MCM-PT02 (08132024)(0000)SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Per the SOP, samples were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	682061	
	001	009
Arsenic	5X	5X

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: 682061
GEL Project Manager: Erin Trent/Alaina Pinnick

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus Injection Pilot Dose Response Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Robert Shealy, Jess Ware, Grant Wilford (Arcadis US Inc.)
Send Results To: knjurink@southernco.com; kathryn.farris@arcadis.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (if yes, please supply isotopic info.)	Should this sample be considered: (*) Known or possible Hazards	Total number of containers	Total Metals (6020B) - Fe, As (NI)	Total Metals (6020B) - Fe (NI)								<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
MCM-MCM-06(08132024)(0000)	8/13/2024	9:45	G	N	GW				x										Samples may contain low levels of deuterium
MCM-MCM-06(08132024)(0472)	8/13/2024	17:44	G	N	GW				HOLD										HOLD
MCM-MCM-06(08142024)(0637)	8/14/2024	9:26	G	N	GW				HOLD										HOLD
MCM-MCM-06(08142024)(1181)	8/14/2024	15:52	G	N	GW				HOLD										HOLD
MCM-MCM-06(08152024)(1233)	8/15/2024	9:13	G	N	GW					x									
MCM-MCM-06(08162024)(1983)	8/16/2024	8:58	G	N	GW					x									
MCM-MCM-06(08172024)(2743)	8/17/2024	8:33	G	N	GW				HOLD										HOLD
MCM-MCM-06(08182024)(3386)	8/18/2024	8:23	G	N	GW					x									
MCM-MCM-06(08192024)(4329)	8/19/2024	15:40	G	N	GW				x										

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	8/21/24	1050	[signature]	8/21/24	1050
2						
3						

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: Task Code: MCM-CCR-CA-20240812
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____°C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg = Mercury
Ba = Barium Se = Selenium
Cd = Cadmium Ag = Silver
Cr = Chromium MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Dissolved metals are the only Field Filterd Samples

682064 682065
682057 682061
682063 682058
682066 682037 682051
682041 682049

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order: A-D.
Received By: Thyasia Tatum	Date Received: 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other)

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date 8/22/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: 682061 GEL Project Manager: Erin Trent/Alaina Pinnick

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus Injection Pilot Dose Response Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Robert Shealy, Jess Ware, Grant Wilford (Arcadis US Inc.) Send Results To: kujurink@southernco.com; kathryn.farris@arcadis.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID *For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (?) Known or possible Hazards	Total number of containers	Total Metals (6020B) - Fe, As	Total Metals (6020B) - Fe								<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
									NI	NI									
MCM-MCM-06(08132024)(0000)	8/13/2024	9:45	G	N	GW				x										Samples may contain low levels of deuterium
MCM-MCM-06(08132024)(0472)	8/13/2024	17:44	G	N	GW				HOLD										HOLD
MCM-MCM-06(08142024)(0637)	8/14/2024	9:26	G	N	GW				HOLD										HOLD
MCM-MCM-06(08142024)(1181)	8/14/2024	15:52	G	N	GW				HOLD										HOLD
MCM-MCM-06(08152024)(1233)	8/15/2024	9:13	G	N	GW					x									
MCM-MCM-06(08162024)(1983)	8/16/2024	8:58	G	N	GW					x									
MCM-MCM-06(08172024)(2743)	8/17/2024	8:33	G	N	GW				HOLD										HOLD
MCM-MCM-06(08182024)(3386)	8/18/2024	8:23	G	N	GW					x									
MCM-MCM-06(08192024)(4329)	8/19/2024	15:40	G	N	GW				x										

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	8/21/24	1050	[signature]	8/21/24	1050
2						
3						

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: Task Code: MCM-CCR-CA-20240812
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR)

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg = Mercury
Ba = Barium Se = Selenium
Cd = Cadmium Ag = Silver
Cr = Chromium MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste (F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Dissolved metals are the only Field Filterd Samples

6820064 6820065
6820057 6820061
6820063 6820058
6820066 6820037 6820051
6820041 6820049

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order: A-D.
Received By: Thyasia Tatum	Date Received: 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other)

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date 8/22/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 05 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 05, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus Injection Pilot Dose Response
Work Order: 682041

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 21, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682041001	MCM-PT-01(08132024)(0000)	Ground Water	08/13/24 09:34	08/21/24 10:50
682041002	MCM-PT-01(08132024)(0472)	Ground Water	08/13/24 17:03	08/21/24 10:50
682041003	MCM-PT-01(08142024)(0472)	Ground Water	08/14/24 08:35	08/21/24 10:50
682041004	MCM-PT-01(08142024)(1181)	Ground Water	08/14/24 16:34	08/21/24 10:50
682041005	MCM-PT-01(08152024)(1181)	Ground Water	08/15/24 08:49	08/21/24 10:50
682041006	MCM-PT-01(08162024)(1967)	Ground Water	08/16/24 08:50	08/21/24 10:50
682041007	MCM-PT-01(08172024)(2814)	Ground Water	08/17/24 09:27	08/21/24 10:50
682041008	MCM-PT-01(08182024)(3386)	Ground Water	08/18/24 09:10	08/21/24 10:50
682041009	MCM-PT-01(08192024)(4329)	Ground Water	08/19/24 16:00	08/21/24 10:50

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	26-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	05-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Will James for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682041 GEL Work Order: 682041

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Will James

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-01(08132024)(0000)	Project:	GPCC00124
Sample ID:	682041001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	13-AUG-24 09:34		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic		0.0253	0.0100	0.0250	mg/L	1.00	5	PRB	09/05/24	0344	2661546	1
Iron		3.23	0.0330	0.100	mg/L	1.00	1	PRB	09/05/24	0341	2661546	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661545

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-01(08152024)(1181)	Project:	GPCC00124
Sample ID:	682041005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-AUG-24 08:49		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		1.76	0.0330	0.100	mg/L	1.00	1	PRB	09/05/24	0348	2661546	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661545

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-01(08162024)(1967)	Project:	GPCC00124
Sample ID:	682041006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-AUG-24 08:50		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		3.71	0.0330	0.100	mg/L	1.00	1	PRB	09/05/24	0403	2661546	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661545

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT-01(08192024)(4329)	Project:	GPCC00124
Sample ID:	682041009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-AUG-24 16:00		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic		0.0325	0.00200	0.0100	mg/L	1.00	1	PRB	09/05/24	0410	2661546	1
Iron		3.11	0.0330	0.100	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661545

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: September 5, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **682041**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661546											
QC1205831872 LCS											
Arsenic	0.0500				0.0508	mg/L		102	(80%-120%)	PRB	09/05/24 02:24
Iron	2.00				1.97	mg/L		98.7	(80%-120%)		09/05/24 11:31
QC1205831871 MB											
Arsenic				U	ND	mg/L					09/05/24 02:21
Iron				U	ND	mg/L					09/05/24 11:29
QC1205831873 682037001 MS											
Arsenic	0.0500	U	ND		0.0463	mg/L		91.8	(75%-125%)		09/05/24 02:39
Iron	2.00		1630		1670	mg/L		N/A	(75%-125%)		09/05/24 11:35
QC1205831874 682037001 MSD											
Arsenic	0.0500	U	ND		0.0444	mg/L	4.21	88	(0%-20%)		09/05/24 02:42
Iron	2.00		1630		1540	mg/L	7.65	N/A	(0%-20%)		09/05/24 11:37
QC1205831875 682037001 SDILT											
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/05/24 02:50
Iron			16300		3140	ug/L	3.53		(0%-20%)		09/05/24 11:39

Notes:

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

QC Summary

Workorder: **682041**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 682041

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661546

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661545

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682041001	MCM-PT-01(08132024)(0000)
682041005	MCM-PT-01(08152024)(1181)
682041006	MCM-PT-01(08162024)(1967)
682041009	MCM-PT-01(08192024)(4329)
1205831871	Method Blank (MB)**ICP-MS**
1205831872	Laboratory Control Sample (LCS)
1205831875	682037001(MCM-Batch 01(08132024)L) Serial Dilution (SD)
1205831873	682037001(MCM-Batch 01(08132024)S) Matrix Spike (MS)
1205831874	682037001(MCM-Batch 01(08132024)SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 682041001 (MCM-PT-01(08132024)(0000)) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument. Per the SOP, sample 682041001 (MCM-PT-01(08132024)(0000)) was diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	**682041**
	001
Arsenic	5X

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: 682041
GEL Project Manager: Erin Trent/Alaina Pinnick

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682041

Client Name: Kristen Jurinko — Phone #
Project/Site Name: Plant McManus Injection Pilot Dose Response — Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Robert Shealy, Jess Ware, Grant Wilford (Arcadis US Inc.)
Send Results To: knjurink@southernco.com; kathryn.farris@arcadis.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: (1) Radioactive (If yes, please supply isotopic info.)	(2) Known or possible Hazards	Total number of containers	Total Metals (6020B) - Fe, As (NI)	Total Metals (6020B) - Fe (NI)	<-- Preservatve Type (6)	Comments
MCM-PT-01(08132024)(0000)	8/13/2024	9:34	G	N	GW				x			Samples may contain low levels of deuterium
MCM-PT-01(08132024)(0472)	8/13/2024	17:03	G	N	GW				HOLD			HOLD
MCM-PT-01(08142024)(0472)	8/14/2024	8:35	G	N	GW				HOLD			HOLD
MCM-PT-01(08142024)(1181)	8/14/2024	16:34	G	N	GW				HOLD			HOLD
MCM-PT-01(08152024)(1181)	8/15/2024	8:49	G	N	GW					x		
MCM-PT-01(08162024)(1967)	8/16/2024	8:50	G	N	GW					x		
MCM-PT-01(08172024)(2814)	8/17/2024	9:27	G	N	GW				HOLD			HOLD
MCM-PT-01(08182024)(3386)	8/18/2024	9:10	G	N	GW				HOLD			HOLD
MCM-PT-01(08192024)(4329)	8/19/2024	16:00	G	N	GW				x			

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/21/24	1050		8/21/24	1050
2						
3						

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: Task Code: MCM-CCR-CA-20240812
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR)*

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg** = Mercury
Ba = Barium **Se** = Selenium
Cd = Cadmium **Ag** = Silver
Cr = Chromium **MR** = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

6820064 6820065
6820057 6820061
6820063 6820058
6820066 6820037 6820051
6820041 6820049

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

A-P.

Client: GPCC	SDG/AR/COC/Work Order:
Received By: Thyasia Tatum	Date Received: 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other)

Suspected Hazard Information	Yes	No	
		✓	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date 8/22/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 05 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 05, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus Injection Pilot Dose Response
Work Order: 682051

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 21, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682051001	MCM-PT02 (08132024)(0000)	Ground Water	08/13/24 08:34	08/21/24 10:50
682051002	MCM-PT02 (08132024)(472)	Ground Water	08/13/24 16:39	08/21/24 10:50
682051003	MCM-PT02 (08142024)(472)	Ground Water	08/14/24 08:22	08/21/24 10:50
682051004	MCM-PT02 (08152024)(1181)	Ground Water	08/15/24 08:37	08/21/24 10:50
682051005	MCM-PT02 (08162024)(1927)	Ground Water	08/16/24 08:32	08/21/24 10:50
682051006	MCM-PT02 (08172024)(2778)	Ground Water	08/17/24 08:50	08/21/24 10:50
682051007	MCM-PT02 (08182024)(3386)	Ground Water	08/18/24 08:45	08/21/24 10:50
682051008	MCM-PT02 (08192024)(4329)	Ground Water	08/19/24 16:18	08/21/24 10:50

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	27-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	31-AUG-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Will James for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682051 GEL Work Order: 682051

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Will James

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT02 (08132024)(0000)	Project:	GPCC00124
Sample ID:	682051001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	13-AUG-24 08:34		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		7.36	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1500	2661548	1
Arsenic	J	0.0101	0.0100	0.0250	mg/L	1.00	5	BAJ	08/31/24	1355	2661548	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT02 (08162024)(1927)	Project:	GPCC00124
Sample ID:	682051005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-AUG-24 08:32		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		5.46	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1433	2661548	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-PT02 (08192024)(4329)	Project:	GPCC00124
Sample ID:	682051008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	19-AUG-24 16:18		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Iron		4.18	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	1435	2661548	1
Arsenic	J	0.0164	0.0100	0.0250	mg/L	1.00	5	BAJ	08/31/24	1405	2661548	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/27/24	0805	2661547

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: September 5, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **682051**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2661548												
QC1205831877 LCS												
Arsenic	0.0500				0.0512	mg/L		102	(80%-120%)	BAJ	08/31/24	13:54
Iron	2.00				1.99	mg/L		99.4	(80%-120%)			
QC1205831876 MB												
Arsenic				U	ND	mg/L					08/31/24	13:52
Iron				U	ND	mg/L						
QC1205831878 682051001 MS												
Arsenic	0.0500	J	0.0101		0.0617	mg/L		103	(75%-125%)		08/31/24	13:56
Iron	2.00		7.36		9.24	mg/L		93.8	(75%-125%)		08/31/24	15:02
QC1205831879 682051001 MSD												
Arsenic	0.0500	J	0.0101		0.0605	mg/L	1.87	101	(0%-20%)		08/31/24	13:57
Iron	2.00		7.36		9.03	mg/L	2.23	83.6	(0%-20%)		08/31/24	15:03
QC1205831880 682051001 SDILT												
Arsenic		J	2.02	U	ND	ug/L	N/A		(0%-20%)		08/31/24	14:00
Iron			7360		1630	ug/L	10.7		(0%-20%)		08/31/24	15:06

Notes:

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

QC Summary

Workorder: **682051**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
J	See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 682051

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661548

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661547

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682051001	MCM-PT02 (08132024)(0000)
682051005	MCM-PT02 (08162024)(1927)
682051008	MCM-PT02 (08192024)(4329)
1205831876	Method Blank (MB)**ICP-MS**
1205831877	Laboratory Control Sample (LCS)
1205831880	682051001(MCM-PT02 (08132024)(0000)L) Serial Dilution (SD)
1205831878	682051001(MCM-PT02 (08132024)(0000)S) Matrix Spike (MS)
1205831879	682051001(MCM-PT02 (08132024)(0000)SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Per the SOP, samples were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	682051	
	001	008
Arsenic	5X	5X

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number (1):
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: 682051
GEL Project Manager: Erin Trent/Alaina Pinnick

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682051

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus Injection Pilot Dose Response Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Robert Sheely, Jess Ware, Grant Wilford (Arcadis US Inc.)
Send Results To: knjurink@southernco.com; kathryn.farris@arcadis.com

682051

Sample ID (*For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (if yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - Fe, As	Total Metals (6020B) - Fe								<-- Preservative Type (6)	Comments
									NI	NI									
MCM-PT-02(08132024)(0000)	8/13/2024	8:34	G	N	GW				x										Samples may contain low levels of deuterium
MCM-PT-02(08132024)(472)	8/13/2024	16:39	G	N	GW				HOLD										HOLD
MCM-PT-02(08142024)(472)	8/14/2024	8:22	G	N	GW				HOLD										HOLD
MCM-PT-02(08152024)(1181)	8/15/2024	8:37	G	N	GW				HOLD										HOLD
MCM-PT-02(08162024)(1927)	8/16/2024	8:32	G	N	GW					x									
MCM-PT-02(08172024)(2778)	8/17/2024	8:50	G	N	GW				HOLD										HOLD
MCM-PT-02(08182024)(3386)	8/18/2024	8:45	G	N	GW				HOLD										HOLD
MCM-PT-02(08192024)(4329)	8/19/2024	16:18	G	N	GW				x										

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1		8/21/24	1650		8/21/24	1650
2						
3						

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: Task Code: MCM-CCR-CA-20240812
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR)

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic Hg= Mercury
Ba = Barium Se= Selenium
Cd = Cadmium Ag= Silver
Cr = Chromium MR= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Dissolved metals are the only Field Filterd Samples

6820064 6820065
6820057 6820061
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6820066 6820037 6820051
6820041 6820049

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

A-P.

Client: GPCC	SDG/AR/COC/Work Order:
Received By: Thyasia Tatum	Date Received: 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other)

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?			✓	
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date 8/22/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 05 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 05, 2024

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus Injection Pilot Dose Response
Work Order: 682037

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 21, 2024. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. Sample arrived with no chain of custody. Client was notified 8/27 and requested the sample be added to work order 682037*682037005(MCM-INW-01(08122024(0000))*. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682037001	MCM-Batch 01(08132024)	Ground Water	08/13/24 13:30	08/21/24 10:50
682037002	MCM-Batch 05(08152024)	Ground Water	08/15/24 09:45	08/21/24 10:50
682037003	MCM-Batch 10(08162024)	Ground Water	08/16/24 14:00	08/21/24 10:50
682037004	MCM-Batch 15(08182024)	Ground Water	08/18/24 14:45	08/21/24 10:50
682037005	MCM-INW-01(08122024(0000)	Ground Water	08/12/24 16:47	08/21/24 10:50

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	26-AUG-2024
SW846 3005A	29-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	05-SEP-2024

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Will James for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 682037 GEL Work Order: 682037

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Will James

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-Batch 01(08132024)	Project:	GPCC00124
Sample ID:	682037001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	13-AUG-24 13:30		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		1630	3.30	10.0	mg/L	1.00	100	PRB	09/05/24	1133	2661546	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661545

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-Batch 05(08152024)	Project:	GPCC00124
Sample ID:	682037002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-AUG-24 09:45		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		1920	3.30	10.0	mg/L	1.00	100	PRB	09/05/24	1145	2661546	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661545

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-Batch 10(08162024)	Project:	GPCC00124
Sample ID:	682037003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-AUG-24 14:00		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		1610	3.30	10.0	mg/L	1.00	100	PRB	09/05/24	1147	2661546	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661545

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-Batch 15(08182024)	Project:	GPCC00124
Sample ID:	682037004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	18-AUG-24 14:45		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Iron "As Received"												
Iron		2040	3.30	10.0	mg/L	1.00	100	PRB	09/05/24	1148	2661546	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661545

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus Injection Pilot Dose Response

Client Sample ID:	MCM-INW-01(08122024(0000)	Project:	GPCC00124
Sample ID:	682037005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-AUG-24 16:47		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	BAJ	08/31/24	1341	2664249	1
Iron		2.68	0.165	0.500	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	AB5	08/29/24	0805	2664248

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: September 5, 2024

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **682037**

Parmname			NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS														
Batch 2661546														
QC1205831872	LCS													
Iron			2.00				1.97	mg/L		98.7	(80%-120%)	PRB	09/05/24	11:31
QC1205831871	MB													
Iron						U	ND	mg/L					09/05/24	11:29
QC1205831873	682037001	MS												
Iron			2.00		1630		1670	mg/L		N/A	(75%-125%)		09/05/24	11:35
QC1205831874	682037001	MSD												
Iron			2.00		1630		1540	mg/L	7.65	N/A	(0%-20%)		09/05/24	11:37
QC1205831875	682037001	SDILT												
Iron					16300		3140	ug/L	3.53		(0%-20%)		09/05/24	11:39
Batch 2664249														
QC1205838190	LCS													
Arsenic			0.0500				0.0519	mg/L		104	(80%-120%)	BAJ	08/31/24	13:34
Iron			2.00				2.06	mg/L		103	(80%-120%)			
QC1205838189	MB													
Arsenic						U	ND	mg/L					08/31/24	13:32
Iron						U	ND	mg/L						
QC1205838191	682037005	MS												
Arsenic			0.0500	U	ND		0.0627	mg/L		106	(75%-125%)		08/31/24	13:42

QC Summary

Workorder: **682037**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2664249											
Iron	2.00		2.68		4.63	mg/L		97	(75%-125%)	BAJ	08/31/24 13:42
QC1205838192 682037005 MSD											
Arsenic	0.0500	U	ND		0.0620	mg/L	1.21	105	(0%-20%)		08/31/24 13:43
Iron	2.00		2.68		4.73	mg/L	2.15	102	(0%-20%)		
QC1205838193 682037005 SDILT											
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/24 13:46
Iron			537		112	ug/L	4.68		(0%-20%)		

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
- N1 See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.

QC Summary

Workorder: **682037**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

J See case narrative for an explanation

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 682037

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661546

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661545

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682037001	MCM-Batch 01(08132024)
682037002	MCM-Batch 05(08152024)
682037003	MCM-Batch 10(08162024)
682037004	MCM-Batch 15(08182024)
1205831871	Method Blank (MB)**ICP-MS**
1205831872	Laboratory Control Sample (LCS)
1205831875	682037001(MCM-Batch 01(08132024)L) Serial Dilution (SD)
1205831873	682037001(MCM-Batch 01(08132024)S) Matrix Spike (MS)
1205831874	682037001(MCM-Batch 01(08132024)SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 682037001 (MCM-Batch 01(08132024)), 682037002 (MCM-Batch 05(08152024)), 682037003 (MCM-Batch 10(08162024)) and 682037004 (MCM-Batch 15(08182024)) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	682037			
	001	**002**	**003**	**004**
Iron	100X	100X	100X	100X

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2664249

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2664248

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
682037005	MCM-INW-01(08122024(0000)
1205838189	Method Blank (MB)**ICP-MS**
1205838190	Laboratory Control Sample (LCS)
1205838193	682037005(MCM-INW-01(08122024(0000)L) Serial Dilution (SD)
1205838191	682037005(MCM-INW-01(08122024(0000)S) Matrix Spike (MS)
1205838192	682037005(MCM-INW-01(08122024(0000)SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Per the SOP, samples were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	682037 005
Arsenic	5X
Iron	5X

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

Rev. 1

Chain of Custody and Analytical Request

GEL Work Order Number: ***GEL Project Manager: Erin Trent/Alaina Pinnick***

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682037

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus Injection Pilot Dose Response Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Robert Shealy, Jess Ware, Grant Wilford (Arcadis US Inc.)

Send Results To: knjurink@southernco.com; kathryn.farris@arcadis.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID ** For composites - indicate start and stop date/time*	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - Fe, As	Total Metals (6020B) - Fe								<-- Preservative Type (6)
									NI	NI								**Comments** Note: extra sample is required for sample specific QC
MCM-Batch 01(08132024)	8/13/2024	13:30	G	N	GW					x								
MCM-Batch 05(08152024)	8/15/2024	9:45	G	N	GW					x								
MCM-Batch 10(08162024)	8/16/2024	14:00	G	N	GW					x								
MCM-Batch 15(08182024)	8/18/2024	14:45	G	N	GW					x								
MCM-INW-01(08122024)(0000)	8/12/2024	16:47	G	N	GW				x									Samples may contain low levels of deuterium

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2			2		
3			3		

TAT Requested: Normal: ___X__ Rush:_____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20240812**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ ***°C***

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone: [**X**] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

****Dissolved metals are the only Field Filterd Samples****

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: 682037
GEL Project Manager: Erin Trent/Alaina Pinnick

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

682037

Client Name: Kristen Jurinko — Phone #
Project/Site Name: Plant McManus Injection Pilot Dose Response — Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Robert Sheely, Jess Ware, Grant Wilford (Arcadis US Inc.) — Send Results To: knjurink@southernco.com; kathryn.farris@arcadis.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (*For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - Fe, As	Total Metals (6020B) - Fe								<-- Preservative Type (6)
									NI	NI								Comments
MCM-Batch 01(08132024)	8/13/2024	13:30	G	N	GW					x								Note: extra sample is required for sample specific QC
MCM-Batch 05(08152024)	8/15/2024	9:45	G	N	GW					x								
MCM-Batch 10(08162024)	8/16/2024	14:00	G	N	GW					x								
MCM-Batch 15(08182024)	8/18/2024	14:45	G	N	GW					x								
																		Samples may contain low levels of deuterium

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	8/21/24	1050	1 [signature]	8/21/24	1050
2				2		
3				3		

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)
Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: Task Code: MCM-CCR-CA-20240812
For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: ____ °C
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR)

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic; Hg = Mercury
Ba = Barium; Se = Selenium
Cd = Cadmium; Ag = Silver
Cr = Chromium; MR = Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW = Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Dissolved metals are the only Field Filterd Samples

6820064 6820065
6820057 6820061
6820063 6820058
6820066 6820037 6820051
6820041 6820049

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

A-D.

Client: GPCC	SDG/AR/COC/Work Order:
Received By: Thyasia Tatum	Date Received: 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier (Other)

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: 2C
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR2-23 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?	✓			Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials HB Date 8/22/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

List of current GEL Certifications as of 05 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company-Arcadis

IT^2 FILE # 240409

2024-10-28

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3,
Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

Reported: 2024-10-28

FedEx: 778109107254

Client: Southern Company-Arcadis
Address: 241 Ralph McGill Blvd NE
Atlanta, GA 30308
Att.: Kristen Jurinko
E-mail: knjurink@southernco.com
E-mail: kathryn.Farris@arcadis.com
E-mail: margaret.gentile@arcadis.com
Phone: 404-506-7116

File Number: **240409**
Project Name: **Plant McManus Injeciton Pilot Study 2024**
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv
	DR-03	Date	Time		H_2O	VSMOW	
1	MCM-DR-03(08132024)(0000)	2024-08-13	7:45	172225	X	7.4	0.2
2	MCM-DR-03(08132024)(0472)	2024-08-13	15:40	172226	X	0.4	0.1
3	MCM-DR-03(08142024)(0472)	2024-08-14	7:45	172227	X	385.6	0.2
4	MCM-DR-03(08142024)(0938)	2024-08-14	13:00	172228	X	321.6	3.7
5	MCM-DR-03(08142024)(1181)	2024-08-14	15:20	172229	X	540.5	0.9
6	MCM-DR-03(08152024)(1181)	2024-08-15	8:05	172230	X	1039.4	5.0
7	MCM-DR-03(08152024)(1520)	2024-08-15	11:40	172231	X	759.3	4.0
8	MCM-DR-03(08152024)(1688)	2024-08-15	13:07	172232	X	758.0	0.8
9	MCM-DR-03(08152024)(1927)	2024-08-15	15:55	172233	HOLD		
10	MCM-DR-03(08162024)(1927)	2024-08-16	8:07	172234	X	1276.4	4.7
11	MCM-DR-03(08162024)(2181)	2024-08-16	10:53	172235	HOLD		
12	MCM-DR-03(08162024)(2418)	2024-08-16	13:33	172236	X	1189.6	1.7
13	MCM-DR-03(08162024)(2675)	2024-08-16	16:07	172237	HOLD		
14	MCM-DR-03(08172024)(2675)	2024-08-17	7:50	172238	X	1343.3	1.5
15	MCM-DR-03(08172024)(2899)	2024-08-17	10:44	172239	HOLD		
16	MCM-DR-03(08172024)(3136)	2024-08-17	13:55	172240	X	1177.2	1.6
17	MCM-DR-03(08172024)(3386)	2024-08-17	16:55	172241	HOLD		
18	MCM-DR-03(08182024)(3386)	2024-08-18	9:20	172242	X	1322.3	1.5
19	MCM-DR-03(08182024)(3626)	2024-08-18	13:00	172243	HOLD		
20	MCM-DR-03(08182024)(3861)	2024-08-18	16:55	172244	X	1686.4	3.0
21	MCM-DR-03(08192024)(4329)	2024-08-19	17:55	172245	X	1490.4	2.0

Approved by:

Orfan S-Stash

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3&4, Waterloo, ON, N2V 1K4
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Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

Reported: 2024-10-28

FedEx: 778109107254

Client: Southern Company-Arcadis
Address: 241 Ralph McGill Blvd NE
Atlanta, GA 30308
Att.: Kristen Jurinko
E-mail: knjurink@southernco.com
E-mail: kathryn.Farris@arcadis.com
E-mail: margaret.gentile@arcadis.com
Phone: 404-506-7116

File Number: **240409**
Project Name: **Plant McManus Injeciton Pilot Study 2024**
PO:

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).
Standard Used:
IT2-12E / IT2-13D / IT2-14C/IT2-15B/IT2-18A Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)
Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

Orfan Shouakar-Stash, PhD
Director
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ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required: ASAP

Service Requested: *(regular)* / *(Rush)*

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus Injection Pilot Study 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL __X__ FAX _____ BOTH _____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: Kathryn.Farris@arcadis.com
EMAIL 3: margaret.gentile@arcadis.com

ANALYSIS REQUEST

PLEASE INDICATE FILTERED, PRESERVED OR BOTH <----- **(F, P, F/P)**

SUBMISSION #:

ENTERED BY:

DATE/TIME ENTERED:

BIN #:

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX															
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT	NUMBER OF CONTAINERS	Deuterium (IRMS)										COMMENTS	LAB ID
2024-08-13	7:45		x	x			MCM-DR-03(8132024)(0000)	1	x											
2024-08-13	15:40		x	x			MCM-DR-03(8132024)(0472)	1	x											
2024-08-14	7:45		x	x			MCM-DR-03(8142024)(0472)	1	x											
2024-08-14	13:00		x	x			MCM-DR-03(8142024)(0938)	1	x											
2024-08-14	15:20		x	x			MCM-DR-03(8142024)(1181)	1	x											
2024-08-15	8:05		x	x			MCM-DR-03(8152024)(1181)	1	x											
2024-08-15	11:40		x	x			MCM-DR-03(8152024)(1520)	1	x											
2024-08-15	13:07		x	x			MCM-DR-03(8152024)(1688)	1	x											
2024-08-15	15:55		x	x			MCM-DR-03(8152024)(1927)	1	HOLD										HOLD	
2024-08-16	8:07		x	x			MCM-DR-03(8162024)(1927)	1	x											
2024-08-16	10:53		x	x			MCM-DR-03(8162024)(2181)	1	HOLD										HOLD	
2024-08-16	13:33		x	x			MCM-DR-03(8162024)(2418)	1	x											
2024-08-16	16:07		x	x			MCM-DR-03(8162024)(2675)	1	HOLD										HOLD	
2024-08-17	7:50		x	x			MCM-DR-03(8172024)(2675)	1	x											
2024-08-17	10:44		x	x			MCM-DR-03(8172024)(2899)	1	HOLD										HOLD	
2024-08-17	13:55		x	x			MCM-DR-03(8172024)(3136)	1	x											
2024-08-17	16:55		x	x			MCM-DR-03(8172024)(3386)	1	HOLD										HOLD	
2024-08-18	9:20		x	x			MCM-DR-03(8182024)(3386)	1	x											
2024-08-18	13:00		x	x			MCM-DR-03(8182024)(3626)	1	HOLD										HOLD	
2024-08-18	16:55		x	x			MCM-DR-03(8182024)(3861)	1	x											
2024-08-19	17:55		x	x			MCM-DR-03(8192024)(4329)	1	x											

SPECIAL INSTRUCTIONS/COMMENTS

THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)

Are any samples taken from a regulated DW System? Yes ___ No ___
If yes, an authorized drinking water COC MUST be used for this submission.

SAMPLE CONDITION

___ FROZEN
___ COLD

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company-Arcadis

IT^2 FILE # 240410

2024-10-29

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3,
Waterloo, ON, N2V 1K4
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Email: orfan@it2isotopes.com
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Reported: 2024-10-29

FedEx: 778109107254

ISOTOPE TRACER TECHNOLOGIES INC

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Address: 241 Ralph McGill Blvd NE
Atlanta, GA 30308
Att.: Kristen Jurinko
E-mail: knjurink@southernco.com
E-mail: kathryn.Farris@arcadis.com
E-mail: margaret.gentile@arcadis.com
Phone: 404-506-7116

File Number: **240410**
Project Name: **Plant McManus Injeciton Pilot Study 2024**
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
	PT-03	Date	Time		H_2O	VSMOW		
1	MCM-PT-03(08132024)(0000)	8/13/2024	8:12	172246	X	5.3	0.2	1x60mL
2	MCM-PT-03(08132024)(0472)	8/13/2024	15:51	172247	HOLD			1x60mL
3	MCM-PT-03(08142024)(0472)	8/14/2024	8:37	172248	X	4.6	0.2	1x60mL
4	MCM-PT-03(08142024)(0938)	8/14/2024	13:10	172249	X	6.2	0.3	1x60mL
5	MCM-PT-03(08142024)(1181)	8/14/2024	15:40	172250	X	16.3	0.4	1x60mL
6	MCM-PT-03(08152024)(1181)	8/15/2024	8:40	172251	X	3.4	0.1	1x60mL
7	MCM-PT-03(08152024)(1570)	8/15/2024	12:02	172252	X	71.9	0.5	1x60mL
8	MCM-PT-03(08152024)(1688)	8/15/2024	13:22	172253	X	37.6	0.4	1x60mL
9	MCM-PT-03(08152024)(1927)	8/15/2024	16:15	172254	HOLD			1x60mL
10	MCM-PT-03(08162024)(1927)	8/16/2024	8:30	172255	X	28.0	0.3	1x60mL
11	MCM-PT-03(08162024)(2181)	8/16/2024	10:41	172256	X	81.2	0.7	1x60mL
12	MCM-PT-03(08162024)(2421)	8/16/2024	13:20	172257	X	94.7	0.3	1x250mL
13	MCM-PT-03(08162024)(2675)	8/16/2024	15:45	172258	X	232.8	0.9	1x250mL
14	MCM-PT-03(08172024)(2675)	8/17/2024	7:54	172259	X	65.5	0.7	1x60mL
15	MCM-PT-03(08172024)(2899)	8/17/2024	10:35	172260	X	289.7	1.5	1x60mL
16	MCM-PT-03(08172024)(3136)	8/17/2024	13:45	172261	X	233.1	2.1	1x60mL
17	MCM-PT-03(08172024)(3386)	8/17/2024	17:05	172262	HOLD			1x60mL
18	MCM-PT-03(08182024)(3386)	8/18/2024	8:36	172263	X	60.1	0.4	1x60mL
19	MCM-PT-03(08182024)(3626)	8/18/2024	12:52	172264	HOLD			1x60mL
20	MCM-PT-03(08182024)(3861)	8/18/2024	16:30	172265	X	556.1	2.5	1x60mL
21	MCM-PT-03(08192024)(4329)	8/19/2024	17:45	172266	X	206.0	1.7	1x60mL

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).

Standard Used:
IT2-13D / IT2-14C / IT2-15B/IT2-18A Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)

Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

Orfan S-Stash

Orfan Shouakar-Stash, PhD
Director
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Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required: ASAP

Service Requested: *(regular)* / *(Rush)*

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus Injection Pilot Study 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL __X__ FAX _____ BOTH _____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: Kathryn.Farris@arcadis.com
EMAIL 3: margaret.gentile@arcadis.com

PLEASE INDICATE FILTERED, PRESERVED OR BOTH <----- **(F, P, F/P)**

SUBMISSION #:

ENTERED BY:

DATE/TIME ENTERED:

BIN #:

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX				NUMBER OF CONTAINERS	ANALYSIS REQUEST											
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT		Deuterium (IRMS)										COMMENTS	LAB ID
8/13/2024	8:12		x	x			MCM-PT-03(08132024)(0000)	1	x											
8/13/2024	15:51		x	x			MCM-PT-03(08132024)(0472)	1	HOLD										HOLD	
8/14/2024	8:37		x	x			MCM-PT-03(08142024)(0472)	1	x											
8/14/2024	13:10		x	x			MCM-PT-03(08142024)(0938)	1	x											
8/14/2024	15:40		x	x			MCM-PT-03(08142024)(1181)	1	x											
8/15/2024	8:40		x	x			MCM-PT-03(08152024)(1181)	1	x											
8/15/2024	12:02		x	x			MCM-PT-03(08152024)(1570)	1	x											
8/15/2024	13:22		x	x			MCM-PT-03(08152024)(1688)	1	x											
8/15/2024	16:15		x	x			MCM-PT-03(08152024)(1927)	1	HOLD										HOLD	
8/16/2024	8:30		x	x			MCM-PT-03(08162024)(1927)	1	x											
8/16/2024	10:41		x	x			MCM-PT-03(08162024)(2181)	1	x											
8/16/2024	13:20		x	x			MCM-PT-03(08162024)(2421)	1	x											
8/16/2024	15:45		x	x			MCM-PT-03(08162024)(2675)	1	x											
8/17/2024	7:54		x	x			MCM-PT-03(08172024)(2675)	1	x											
8/17/2024	10:35		x	x			MCM-PT-03(08172024)(2899)	1	x											
8/17/2024	13:45		x	x			MCM-PT-03(08172024)(3136)	1	x											
8/17/2024	17:05		x	x			MCM-PT-03(08172024)(3386)	1	HOLD										HOLD	
8/18/2024	8:36		x	x			MCM-PT-03(08182024)(3386)	1	x											
8/18/2024	12:52		x	x			MCM-PT-03(08182024)(3626)	1	HOLD										HOLD	
8/18/2024	16:30		x	x			MCM-PT-03(08182024)(3861)	1	x											
8/19/2024	17:45		x	x			MCM-PT-03(08192024)(4329)	1	x											

SPECIAL INSTRUCTIONS/COMMENTS

THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)

Are any samples taken from a regulated DW System? Yes ___ No ___
If yes, an authorized drinking water COC MUST be used for this submission.

SAMPLE CONDITION

___ FROZEN
___ COLD

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company-Arcadis

IT^2 FILE # 240408

2024-10-29

Approved by:

Orfan Shouakar-Stash, PhD
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Reported: 2024-10-29

FedEx: 778109107254

ISOTOPE TRACER TECHNOLOGIES INC

Client: Southern Company-Arcadis
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E-mail: kathryn.Farris@arcadis.com
E-mail: margaret.gentile@arcadis.com
Phone: 404-506-7116

File Number: **240408**
Project Name: **Plant McManus Injeciton Pilot Study 2024**
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
	DR-02	Date	Time		H_2O	VSMOW		
1	MCM-DR-02(08132024)(0000)	2024-08-13	8:30	172204	X	5.5	0.2	1x60mL
2	MCM-DR-02(08132024)(0472)	2024-08-13	16:20	172205	HOLD			1x60mL
3	MCM-DR-02(08142024)(0612)	2024-08-14	9:18	172206	HOLD			1x60mL
4	MCM-DR-02(08142024)(0938)	2024-08-14	13:22	172207	X	8.3	0.1	1x60mL
5	MCM-DR-02(08142024)(1181)	2024-08-14	15:47	172208	HOLD			1x60mL
6	MCM-DR-02(08152024)(1181)	2024-08-15	8:50	172209	X	5.9	0.2	1x60mL
7	MCM-DR-02(08152024)(1590)	2024-08-15	12:10	172210	HOLD			1x60mL
8	MCM-DR-02(08152024)(1688)	2024-08-15	13:30	172211	X	9.6	0.3	1x60mL
9	MCM-DR-02(08152024)(1927)	2024-08-15	16:25	172212	HOLD			1x60mL
10	MCM-DR-02(08162024)(1927)	2024-08-16	8:46	172213	X	7.0	0.3	1x60mL
11	MCM-DR-02(08162024)(2181)	2024-08-16	11:00	172214	X	7.8	0.3	1x60mL
12	MCM-DR-02(08162024)(2421)	2024-08-16	13:12	172215	X	8.5	0.5	1x60mL
13	MCM-DR-02(08162024)(2675)	2024-08-16	15:35	172216	HOLD			1x60mL
14	MCM-DR-02(08172024)(2724)	2024-08-17	8:20	172217	X	7.6	0.3	1x60mL
15	MCM-DR-02(08172024)(2899)	2024-08-17	10:27	172218	X	8.5	0.4	1x60mL
16	MCM-DR-02(08172024)(3136)	2024-08-17	13:35	172219	X	14.5	0.2	1x60mL
17	MCM-DR-02(08172024)(3386)	2024-08-17	17:15	172220	X	11.6	0.5	1x60mL
18	MCM-DR-02(08182024)(3386)	2024-08-18	8:15	172221	X	9.1	0.4	1x60mL
19	MCM-DR-02(08182024)(3626)	2024-08-18	12:44	172222	HOLD			1x60mL
20	MCM-DR-02(08182024)(3861)	2024-08-18	16:03	172223	X	11.2	0.2	1x60mL
21	MCM-DR-02(08192024)(4329)	2024-08-19	15:20	172224	X	20.6	0.3	1x60mL

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).
Standard Used:
IT2-13D / IT2-14C / IT2-15B/IT2-18A Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)
Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

Orfan S-Stash

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ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required: ASAP

Service Requested: (regular) / (Rush)

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus Injection Pilot Study 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL _X_ FAX ____ BOTH ____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: Kathryn.Farris@arcadis.com
EMAIL 3: margaret.gentile@arcadis.com

ANALYSIS REQUEST

PLEASE INDICATE FILTERED, PRESERVED OR BOTH <---- (F, P, F/P)

SUBMISSION #:

ENTERED BY:

DATE/TIME ENTERED:

BIN #:

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX																
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT	NUMBER OF CONTAINERS	Deuterium (IRMS)										COMMENTS	LAB ID
8/13/2024	8:30		x	x			MCM-DR-02(08132024)(0000)	1	x											
8/13/2024	16:20		x	x			MCM-DR-02(08132024)(0472)	1	HOLD										HOLD	
8/14/2024	9:18		x	x			MCM-DR-02(08142024)(0612)	1	HOLD										HOLD	
8/14/2024	13:22		x	x			MCM-DR-02(08142024)(0938)	1	x											
8/14/2024	15:47		x	x			MCM-DR-02(08142024)(1181)	1	HOLD										HOLD	
8/15/2024	8:50		x	x			MCM-DR-02(08152024)(1181)	1	x											
8/15/2024	12:10		x	x			MCM-DR-02(08152024)(1590)	1	HOLD										HOLD	
8/15/2024	13:30		x	x			MCM-DR-02(08152024)(1688)	1	x											
8/15/2024	16:25		x	x			MCM-DR-02(08152024)(1927)	1	HOLD										HOLD	
8/16/2024	8:46		x	x			MCM-DR-02(08162024)(1927)	1	x											
8/16/2024	11:00		x	x			MCM-DR-02(8162024)(2181)	1	x											
8/16/2024	13:12		x	x			MCM-DR-02(8162024)(2421)	1	x											
8/16/2024	15:35		x	x			MCM-DR-02(8162024)(2675)	1	HOLD										HOLD	
8/17/2024	8:20		x	x			MCM-DR-02(8172024)(2724)	1	x											
8/17/2024	10:27		x	x			MCM-DR-02(8172024)(2899)	1	x											
8/17/2024	13:35		x	x			MCM-DR-02(8172024)(3136)	1	x											
8/17/2024	17:15		x	x			MCM-DR-02(8172024)(3386)	1	x											
8/18/2024	8:15		x	x			MCM-DR-02(8182024)(3386)	1	x											
8/18/2024	12:44		x	x			MCM-DR-02(8182024)(3626)	1	HOLD										HOLD	
8/18/2024	16:03		x	x			MCM-DR-02(8182024)(3861)	1	x											
8/19/2024	15:20		x	x			MCM-DR-02(8192024)(4329)	1	x											

SPECIAL INSTRUCTIONS/COMMENTS

THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)

Are any samples taken from a regulated DW System? Yes ___ No ___
If yes, an authorized drinking water COC MUST be used for this submission.

SAMPLE CONDITION

___ FROZEN
___ COLD

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company-Arcadis

IT^2 FILE # 240414

2024-10-28

Approved by:

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Reported: 2024-10-28

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Phone: 404-506-7116

File Number: **240414**
Project Name: **Plant McManus Injeciton Pilot Study 2024**
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv
	DR-01	Date	Time		H_2O	VSMOW	
1	DR-01(08132024)(0000)	2024-08-13	10:02	172293	X	7.1	0.2
2	DR-01(08132024)(0472)	2024-08-13	17:26	172294	HOLD		
3	DR-01(08142024)(0579)	2024-08-14	9:10	172295	HOLD		
4	DR-01(08152024)(1250)	2024-08-15	9:21	172296	HOLD		
5	DR-01(08162024)(2010)	2024-08-16	9:10	172297	X	6.7	0.5
6	DR-01(08172024)(2792)	2024-08-17	9:07	172298	X	6.6	0.2
7	DR-01(08182024)(3386)	2024-08-18	8:55	172299	HOLD		
8	DR-01(08192024)(4329)	2024-08-19	15:50	172300	X	7.6	0.2

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).
Standard Used:
IT2-14C / IT2-15B / IT2-18A Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)
Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

Orfan S-Stash

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ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required	Service Requested	
	(regular)	
ASAP	(Rush)	

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus Injection Pilot Study 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL _X_ FAX ____ BOTH ____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: Kathryn.Farris@arcadis.com
EMAIL 3: margaret.gentile@arcadis.com

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX					
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT	NUMBER OF CONTAINERS	Deuterium (IRMS)
8/13/2024	10:02		x	x			DR-01(08132024)(0000)	1	x
8/13/2024	17:26		x	x			DR-01(08132024)(0472)	1	HOLD
8/14/2024	9:10		x	x			DR-01(08142024)(0579)	1	HOLD
8/15/2024	9:21		x	x			DR-01(08152024)(1250)	1	HOLD
8/16/2024	9:10		x	x			DR-01(08162024)(2010)	1	x
8/17/2024	9:07		x	x			DR-01(08172024)(2792)	1	x
8/18/2024	8:55		x	x			DR-01(08182024)(3386)	1	HOLD
8/19/2024	15:50		x	x			DR-01(08192024)(4329)	1	x

ANALYSIS REQUEST

PLEASE INDICATE FILTERED, PRESERVED OR BOTH
<---- (F, P, F/P)

COMMENTS	LAB ID
HOLD	
HOLD	
HOLD	
HOLD	

SPECIAL INSTRUCTIONS/COMMENTS

THE QUESTIONS BELOW MUST BE ANSWERED FOR WATER SAMPLES (CHECK Yes OR No)

Are any samples taken from a regulated DW System? Yes ___ No ___
If yes, an authorized drinking water COC MUST be used for this submission.
Is the water sampled intended to be potable for human consumption? Yes ___ No ___

SAMPLE CONDITION

___ FROZEN
___ COLD
___ COOLING INITIATED
___ AMBIENT

SAMPLED BY:		DATE & TIME 5/21/24 1700	RECEIVED BY:	DATE & TIME
RELINQUISHED BY:		DATE & TIME 5/21/24 1700	RECEIVED AT LAB BY:	DATE & TIME

1. TAT may vary dependent on complexity of analysis and lab workload at time of submission. Please contact the lab to confirm TATs.
2. Any known or suspected hazards relating to a sample must be noted on the chain of custody in comments section.

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company-Arcadis

IT^2 FILE # 240411

2024-10-29

Approved by:

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Reported: 2024-10-29

FedEx: 778109107254

ISOTOPE TRACER TECHNOLOGIES INC

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E-mail: kathryn.Farris@arcadis.com
E-mail: margaret.gentile@arcadis.com
Phone: 404-506-7116

File Number: 240411
Project Name: Plant McManus Injeciton Pilot Study 2024
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
	MCM-06	Date	Time		H_2O	VSMOW		
1	MCM-MCM-06(08132024)(0000)	2024-08-13	9:45	172267	X	7.7	0.3	1x60mL
2	MCM-MCM-06(08132024)(0472)	2024-08-13	17:44	172268	HOLD			1x60mL
3	MCM-MCM-06(08142024)(0637)	2024-08-14	9:26	172269	HOLD			1x60mL
4	MCM-MCM-06(08142024)(1181)	2024-08-14	15:52	172270	HOLD			1x60mL
5	MCM-MCM-06(08152024)(1233)	2024-08-15	9:13	172271	X	9.4	0.5	1x60mL
6	MCM-MCM-06(08162024)(1983)	2024-08-16	8:58	172272	X	8.6	0.3	1x60mL
7	MCM-MCM-06(08172024)(2743)	2024-08-17	8:33	172273	HOLD			1x60mL
8	MCM-MCM-06(08182024)(3386)	2024-08-18	8:23	172274	X	8.7	0.2	1x60mL
9	MCM-MCM-06(08192024)(4329)	2024-08-19	15:40	172275	X	9.1	0.2	1x60mL

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).
Standard Used:
IT2-13D / IT2-14C / IT2-15B/IT2-18A Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)
Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

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ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required: ASAP

Service Requested: (regular) / (Rush)

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus Injection Pilot Study 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL _X_ FAX ____ BOTH ____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: Kathryn.Farris@arcadis.com
EMAIL 3: margaret.gentile@arcadis.com

PLEASE INDICATE FILTERED, PRESERVED OR BOTH <---- (F, P, F/P)

SUBMISSION #:

ENTERED BY:

DATE/TIME ENTERED:

BIN #:

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX				NUMBER OF CONTAINERS	ANALYSIS REQUEST											
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT		Deuterium (IRMS)										COMMENTS	LAB ID
8/13/2024	9:45		x	x			MCM-MCM-06(08132024)(0000)	1	x											
8/13/2024	17:44		x	x			MCM-MCM-06(08132024)(0472)	1	HOLD										HOLD	
8/14/2024	9:26		x	x			MCM-MCM-06(08142024)(0637)	1	HOLD										HOLD	
8/14/2024	15:52		x	x			MCM-MCM-06(08142024)(1181)	1	HOLD										HOLD	
8/15/2024	9:13		x	x			MCM-MCM-06(08152024)(1233)	1	x											
8/16/2024	8:58		x	x			MCM-MCM-06(08162024)(1983)	1	x											
8/17/2024	8:33		x	x			MCM-MCM-06(08172024)(2743)	1	HOLD										HOLD	
8/18/2024	8:23		x	x			MCM-MCM-06(08182024)(3386)	1	x											
8/19/2024	15:40		x	x			MCM-MCM-06(08192024)(4329)	1	x											

SPECIAL INSTRUCTIONS/COMMENTS

THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)

Are any samples taken from a regulated DW System? Yes ___ No ___
If yes, an authorized drinking water COC MUST be used for this submission.
Is the water sampled intended to be potable for human consumption? Yes ___ No ___

SAMPLE CONDITION

___ FROZEN
___ COLD
___ COOLING INITIATED
___ AMBIENT

Observations

SAMPLED BY:	DATE & TIME 3/21/24/1700	RECEIVED BY:	DATE & TIME
RELINQUISHED BY:	DATE & TIME 3/21/24/1700	RECEIVED AT LAB BY:	DATE & TIME

1. TAT may vary dependent on complexity of analysis and lab workload at time of submission. Please contact the lab to confirm TATs.

2. Any known or suspected hazards relating to a sample must be noted on the chain of custody in comments section.

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company-Arcadis

IT^2 FILE # 240412

2024-10-29

Approved by:

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Reported: 2024-10-29

FedEx: 778109107254

ISOTOPE TRACER TECHNOLOGIES INC

Client: Southern Company-Arcadis
Address: 241 Ralph McGill Blvd NE
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Att.: Kristen Jurinko
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E-mail: kathryn.Farris@arcadis.com
E-mail: margaret.gentile@arcadis.com
Phone: 404-506-7116

File Number: 240412
Project Name: Plant McManus Injeciton Pilot Study 2024
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
	PT-01	Date	Time		H_2O	VSMOW		
1	MCM-PT-01(08132024)(0000)	2024-08-13	9:34	172276	X	4.7	0.3	1x60mL
2	MCM-PT-01(08132024)(0472)	2024-08-13	17:03	172277	HOLD			1x60mL
3	MCM-PT-01(08142024)(0472)	2024-08-14	8:35	172278	HOLD			1x60mL
4	MCM-PT-01(08142024)(1181)	2024-08-14	16:34	172279	HOLD			1x60mL
5	MCM-PT-01(08152024)(1181)	2024-08-15	8:49	172280	X	5.6	0.4	1x60mL
6	MCM-PT-01(08162024)(1967)	2024-08-16	8:50	172281	X	6.5	0.2	1x60mL
7	MCM-PT-01(08172024)(2814)	2024-08-17	9:27	172282	HOLD			1x60mL
8	MCM-PT-01(08182024)(3386)	2024-08-18	9:10	172283	HOLD			1x60mL
9	MCM-PT-01(08192024)(4329)	2024-08-19	16:00	172284	X	7.2	0.3	1x60mL

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).
Standard Used:
IT2-13D / IT2-14C / IT2-15B/IT2-18A Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)
Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

Orfan S-Stash

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3, Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
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ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM Page 1 of 1

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required	Service Requested	
	(regular)	
ASAP	*(Rush)*	

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus Injection Pilot Study 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL __X__ FAX _____ BOTH _____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: Kathryn.Farris@arcadis.com
EMAIL 3: margaret.gentile@arcadis.com

SAMPLING INFORMATION

| Sample Date/Time | | TYPE | | MATRIX | | |

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company-Arcadis

IT^2 FILE # 240413

2024-10-28

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
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Reported: 2024-10-28
FedEx: 778109107254

ISOTOPE TRACER TECHNOLOGIES INC

Client: Southern Company-Arcadis
Address: 241 Ralph McGill Blvd NE
Atlanta, GA 30308
Att.: Kristen Jurinko
E-mail: knjurink@southernco.com
E-mail: kathryn.Farris@arcadis.com
E-mail: margaret.gentile@arcadis.com
Phone: 404-506-7116

File Number: 240413
Project Name: Plant McManus Injeciton Pilot Study 2024
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv
	PT-02	Date	Time		H_2O	VSMOW	
1	MCM-PT-02(08132024)(0000)	8/13/2024	8:34	172285	X	5.4	0.3
2	MCM-PT-02(08132024)(472)	8/13/2024	16:39	172286	HOLD		
3	MCM-PT-02(08142024)(472)	8/14/2024	8:22	172287	HOLD		
4	MCM-PT-02(08152024)(1181)	8/15/2024	8:37	172288	HOLD		
5	MCM-PT-02(08162024)(1927)	8/16/2024	8:32	172289	X	4.7	0.3
6	MCM-PT-02(08172024)(2778)	8/17/2024	8:50	172290	HOLD		
7	MCM-PT-02(08182024)(3386)	8/18/2024	8:45	172291	HOLD		
8	MCM-PT-02(08192024)(4329)	8/19/2024	16:18	172292	X	5.8	0.3

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).
Standard Used:
IT2-14C / IT2-15B / IT2-18A Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)
Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

Orfan S-Stash

Orfan Shouakar-Stash, PhD
Director
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ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required: ASAP

Service Requested: *(regular)* ☐ *(Rush)* ☐

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus Injection Pilot Study 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL __X__ FAX _____ BOTH _____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: Kathryn.Farris@arcadis.com
EMAIL 3: margaret.gentile@arcadis.com

ANALYSIS REQUEST

PLEASE INDICATE FILTERED, PRESERVED OR BOTH <----- **(F, P, F/P)**

SUBMISSION #:

ENTERED BY:

DATE/TIME ENTERED:

BIN #:

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX																				
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT	NUMBER OF CONTAINERS	Deuterium (IRMS)														COMMENTS	LAB ID
8/13/2024	8:34		x	x			MCM-PT-02(08132024)(0000)	1	x															
8/13/2024	16:39		x	x			MCM-PT-02(08132024)(472)	1	HOLD														HOLD	
8/14/2024	8:22		x	x			MCM-PT-02(08142024)(472)	1	HOLD														HOLD	
8/15/2024	8:37		x	x			MCM-PT-02(08152024)(1181)	1	HOLD														HOLD	
8/16/2024	8:32		x	x			MCM-PT-02(08162024)(1927)	1	x															
8/17/2024	8:50		x	x			MCM-PT-02(08172024)(2778)	1	HOLD														HOLD	
8/18/2024	8:45		x	x			MCM-PT-02(08182024)(3386)	1	HOLD														HOLD	
8/19/2024	16:18		x	x			MCM-PT-02(08192024)(4329)	1	x															

SPECIAL INSTRUCTIONS/COMMENTS

THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)

Are any samples taken from a regulated DW System? Yes ___ No ___

SAMPLE CONDITION

___ FROZEN
___ COLD

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company-Arcadis

IT^2 FILE # 240407

2024-10-28

Approved by:

Orfan Shouakar-Stash, PhD
Director
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Reported: 2024-10-28

FedEx: 778109107254

Client: Southern Company-Arcadis
Address: 241 Ralph McGill Blvd NE
Atlanta, GA 30308
Att.: Kristen Jurinko
E-mail: knjurink@southernco.com
E-mail: kathryn.Farris@arcadis.com
E-mail: margaret.gentile@arcadis.com
Phone: 404-506-7116

File Number: **240407**
Project Name: **Plant McManus Injeciton Pilot Study 2024**
PO:

#	Sample ID	Sample Collection		Sample #	$\delta^{18}O$	Aver	Stdv	$\delta^{2}H$	Aver	Stdv	Sample Size
	BATCH	Date	Time		H_2O	VSMOW		H_2O	VSMOW		
1	MCM-Water(08132024)	2024-08-13	12:50	172199	X	-3.86	0.07	X	-14.6	0.3	1x60mL
2	MCM-Batch 01(08132024)	2024-08-13	13:30	172200	X	-3.14	0.10	X	2981.0	10.0	1x60mL
3	MCM-Batch 05(08152024)	2024-08-15	9:45	172201	X	-3.15	0.14	X	3204.5	4.1	1x60mL
4	MCM-Batch 10(08162024)	2024-08-16	14:00	172202	X	-3.10	0.08	X	2838.2	2.8	1x250mL
5	MCM-Batch 15(08182024)	2024-08-18	14:45	172203	X	-3.07	0.06	X	3115.8	9.1	1x60mL

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).
Standard Used:
IT2-12E / IT2-13D / IT2-14C / IT2-15B / IT2-18A Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)
Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

Orfan S-Stash

Orfan Shouakar-Stash, PhD
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ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required	Service Requested	
	(regular)	
ASAP	(Rush)	

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus Injection Pilot Study 2024	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL _X_ FAX ____ BOTH ____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: Kathryn.Farris@arcadis.com
EMAIL 3: margaret.gentile@arcadis.com

SAMPLING INFORMATION

| Sample Date/Time | | TYPE | | MATRIX | | |

Appendix D

Field Notes and Calibration Reports

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 01/29/2025

Calibrated By: Jay Siewert

Field Conditions: 71°/40

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	843285
Turbidity Meter	LaMotte 2020	70423818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	05/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	08:28	**Time Finish**	08:42		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	101.41	6.029999999999999	± 10%	NA
Specific Conductance (µS/cm)	4,490	4362.7	7.2299999999999995	± 10% of standard	EPA 2023
pH (SU)	4.00	4.66	6.82	± 0.1	GWMP
pH (SU)	7.00	7.590000000000000	7.15	± 0.1	GWMP
pH (SU)	10.00	10.43	7.32	± 0.1	GWMP
ORP (mV)	228.0	236	7.37	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.09		
	10.00	10.47		

Calibration Check					
Time Start	14:45	**Time Finish**	16:39		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4529.2	18.98	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	19.35	± 0.1	GWMP
pH (SU)	7.00	7.07	19.55	± 0.1	GWMP
pH (SU)	10.00	10.1	19.72	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.0699999999999		
	10.00	10.209999999999		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 01/29/2025

Calibrated By: Natalie Piparo

Field Conditions: L 45, H 69

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	20680320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	05/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	08:32	**Time Finish**	08:57		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	103.35	7.13	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,218.20	7.13	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	8.26	± 0.1	GWMP
pH (SU)	7.00	7.06	8.20	± 0.1	GWMP
pH (SU)	10.00	9.98	8.02	± 0.1	GWMP
ORP (mV)	228.0	241.10	8.26	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.10		
	10.00	10.18		

Calibration Check					
Time Start	16:28	**Time Finish**	16:36		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,234.10	19.88	± 10% of standard	EPA 2023
pH (SU)	4.00	4.14	19.84	± 0.1	GWMP
pH (SU)	7.00	7.18	20.28	± 0.1	GWMP
pH (SU)	10.00	10.19	22.50	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.02		
	10.00	9.97		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 01/30/2025

Calibrated By: Jay Siewert

Field Conditions: 68°/44°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	843285
Turbidity Meter	LaMotte 2020	

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	05/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	07:50	**Time Finish**	08:04		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	99.45	8.41	± 10%	NA
Specific Conductance (µS/cm)	4,490	4681.5	8.58	± 10% of standard	EPA 2023
pH (SU)	4.00	3.97	8.65	± 0.1	GWMP
pH (SU)	7.00	6.95	9.02	± 0.1	GWMP
pH (SU)	10.00	10.1299999999999	9.26	± 0.1	GWMP
ORP (mV)	228.0	220.7	9.28	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.1		
	10.00	10.1200000000000		

Calibration Check					
Time Start	13:15	**Time Finish**	13:26		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4257.4	18.85	± 10% of standard	EPA 2023
pH (SU)	4.00	4.25	18.59	± 0.1	GWMP
pH (SU)	7.00	7.25	18.15	± 0.1	GWMP
pH (SU)	10.00	10.18	18.830000000000002	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.09		
	10.00	10.11		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 01/30/2025

Calibrated By: Natalie Piparo

Field Conditions: L 45, H 68

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850762
Turbidity Meter	LaMotte 2020	20680320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	05/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	07:39	**Time Finish**	07:50		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	98.89	9.16	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,332.70	9.23	± 10% of standard	EPA 2023
pH (SU)	4.00	3.91	9.28	± 0.1	GWMP
pH (SU)	7.00	6.90	9.50	± 0.1	GWMP
pH (SU)	10.00	10.01	9.78	± 0.1	GWMP
ORP (mV)	228.0	223.10	9.88	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.04	± 10% of standard	EPA 2023
	1.00	1.22		
	10.00	10.02		

Calibration Check					
Time Start	13:11	**Time Finish**	13:23		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,130.80	19.04	± 10% of standard	EPA 2023
pH (SU)	4.00	4.17	19.04	± 0.1	GWMP
pH (SU)	7.00	7.25	19.20	± 0.1	GWMP
pH (SU)	10.00	10.24	20.99	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.02	± 10% of standard	EPA 2023
	1.00	1.13		
	10.00	10.27		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 04/15/2025

Calibrated By: Natalie Piparo

Field Conditions: H 84, L 59

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1149710
Turbidity Meter	LaMotte 2020	20680320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	05/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	08:19	**Time Finish**	08:29		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.60	16.65	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,652.10	17.38	± 10% of standard	EPA 2023
pH (SU)	4.00	4.17	17.77	± 0.1	GWMP
pH (SU)	7.00	7.03	18.14	± 0.1	GWMP
pH (SU)	10.00	9.98	18.31	± 0.1	GWMP
ORP (mV)	228.0	231.90	18.21	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.23		
	10.00	10.42		

Calibration Check					
Time Start	15:18	**Time Finish**	15:26		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,445.50	31.54	± 10% of standard	EPA 2023
pH (SU)	4.00	4.16	31.57	± 0.1	GWMP
pH (SU)	7.00	7.20	30.23	± 0.1	GWMP
pH (SU)	10.00	10.12	30.43	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.27		
	10.00	10.14		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 04/15/2025

Calibrated By: Jay Siewert

Field Conditions: 85°/64°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080307
Turbidity Meter	LaMotte 2020	70423818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	05/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	09:32	**Time Finish**	09:59		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	89.58	19.05	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,818.40	19.58	± 10% of standard	EPA 2023
pH (SU)	4.00	4.27	20.07	± 0.1	GWMP
pH (SU)	7.00	7.13	19.81	± 0.1	GWMP
pH (SU)	10.00	10.03	19.85	± 0.1	GWMP
ORP (mV)	228.0	223.20	20.00	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.09		
	10.00	10.68		

Calibration Check					
Time Start	15:23	**Time Finish**	15:35		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,256.20	29.08	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	29.14	± 0.1	GWMP
pH (SU)	7.00	7.15	29.15	± 0.1	GWMP
pH (SU)	10.00	10.19	30.06	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.05		
	10.00	10.63		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 04/16/2025

Calibrated By: Natalie Piparo

Field Conditions: H 75, L 51

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1149710
Turbidity Meter	LaMotte 2020	20680320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	05/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	07:49	**Time Finish**	08:00		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	102.30	13.95	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,445.40	14.41	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	14.54	± 0.1	GWMP
pH (SU)	7.00	7.03	15.23	± 0.1	GWMP
pH (SU)	10.00	10.00	15.31	± 0.1	GWMP
ORP (mV)	228.0	234.80	15.20	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.01		
	10.00	9.92		

Calibration Check					
Time Start	12:19	**Time Finish**	12:28		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,396.70	22.49	± 10% of standard	EPA 2023
pH (SU)	4.00	4.21	22.42	± 0.1	GWMP
pH (SU)	7.00	7.25	22.71	± 0.1	GWMP
pH (SU)	10.00	10.19	25.66	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.33		
	10.00	10.06		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 04/16/2025

Calibrated By: Jay Siewert

Field Conditions: 76°/45°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080307
Turbidity Meter	LaMotte 2020	70423818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	05/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	07:57	**Time Finish**	08:13		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	98.68	13.52	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,248.90	14.55	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	14.75	± 0.1	GWMP
pH (SU)	7.00	7.08	15.21	± 0.1	GWMP
pH (SU)	10.00	10.20	15.36	± 0.1	GWMP
ORP (mV)	228.0	232.20	15.52	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.10		
	10.00	10.91		

Calibration Check					
Time Start	13:20	**Time Finish**	13:32		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,299.10	25.81	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	25.50	± 0.1	GWMP
pH (SU)	7.00	7.12	27.72	± 0.1	GWMP
pH (SU)	10.00	10.09	26.75	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.00		
	10.00	10.53		

Notes:

Start of Day:

End of Day:

Appendix E

Post-Injection Analytical Laboratory Reports

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

February 14, 2025

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus 23-Week Sampling January 2025
Work Order: 706744

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on January 31, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
706744001	MCM-INW-01	Ground Water	01/29/25 14:32	01/31/25 09:30
706744002	MCM-MCM-06	Ground Water	01/29/25 14:48	01/31/25 09:30
706744003	MCM-PT-01	Ground Water	01/29/25 11:10	01/31/25 09:30
706744004	MCM-PT-02	Ground Water	01/30/25 11:35	01/31/25 09:30
706744005	MCM-PT-03	Ground Water	01/30/25 09:35	01/31/25 09:30
706744006	MCM-DR-01	Ground Water	01/30/25 09:44	01/31/25 09:30
706744007	MCM-DR-02	Ground Water	01/30/25 10:55	01/31/25 09:30
706744008	MCM-DR-03	Ground Water	01/29/25 10:54	01/31/25 09:30
706744009	MCM-AP1-FD-01	Ground Water	01/29/25 12:00	01/31/25 09:30
706744010	MCM-AP1-FB-01	Water	01/30/25 08:05	01/31/25 09:30
706744011	MCM-AP1-EB-01	Water	01/30/25 08:11	01/31/25 09:30
706744012	MCM-INW-01	Ground Water	01/29/25 14:32	01/31/25 09:30
706744013	MCM-MCM-06	Ground Water	01/29/25 14:48	01/31/25 09:30
706744014	MCM-PT-01	Ground Water	01/29/25 11:10	01/31/25 09:30
706744015	MCM-PT-02	Ground Water	01/30/25 11:35	01/31/25 09:30
706744016	MCM-PT-03	Ground Water	01/30/25 09:35	01/31/25 09:30

706744017	MCM-DR-01	Ground Water	01/30/25 09:44	01/31/25 09:30
706744018	MCM-DR-02	Ground Water	01/30/25 10:55	01/31/25 09:30
706744019	MCM-DR-03	Ground Water	01/29/25 10:54	01/31/25 09:30
706744020	MCM-AP1-FD-01	Ground Water	01/29/25 12:00	01/31/25 09:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

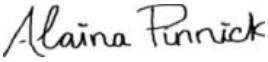
Method	Run Date ID
SW846 3005A	04-FEB-2025
SW846 7470A Prep	05-FEB-2025

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	01-FEB-2025
EPA 300.0	02-FEB-2025
SM 2320B	03-FEB-2025
SM 2540C	05-FEB-2025
SW846 3005A/6020B	13-FEB-2025
SW846 3005A/6020B	14-FEB-2025
SW846 7470A	06-FEB-2025

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 706744 GEL Work Order: 706744

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

J Value is estimated

N Metals--The Matrix spike sample recovery is not within specified control limits

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-INW-01	Project:	GPCC00225
Sample ID:	706744001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-JAN-25 14:32		
Receive Date:	31-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CH6	02/01/25	1716	2743200	1
Chloride		5530	67.0	200	mg/L		1000	CH6	02/02/25	0638	2743200	2
Sulfate		762	133	400	mg/L		1000					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.000100	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/25	1132	2744626	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Arsenic	J	0.00210	0.00200	0.0100	mg/L	1.00	1	PRB	02/13/25	1918	2743191	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		5.62	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00486	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.0511	0.00100	0.00500	mg/L	1.00	1					
Selenium	J	0.00159	0.00150	0.0500	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	02/14/25	1644	2743191	5
Barium	J	0.573	0.00335	2.00	mg/L	1.00	5					
Boron		0.712	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		201	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	J	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		97.3	0.400	1.50	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Magnesium		358	1.00	3.00	mg/L	1.00	100	PRB	02/14/25	1627	2743191	6
Sodium		3220	8.00	25.0	mg/L	1.00	100					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9500	23.8	100	mg/L			RR4	02/05/25	1204	2744769	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		211	0.725	2.00	mg/L			JW2	02/03/25	1114	2743465	8
Bicarbonate alkalinity (CaCO3)		211	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-INW-01	Project:	GPCC00225
Sample ID:	706744001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HS2	02/04/25	0935	2743190
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/25	1105	2744625

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-MCM-06	Project:	GPCC00225
Sample ID:	706744002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-JAN-25 14:48		
Receive Date:	31-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CH6	02/01/25	1746	2743200	1
Chloride		4880	33.5	100	mg/L		500	CH6	02/02/25	0709	2743200	2
Sulfate		581	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/25	1143	2744626	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Arsenic		0.0922	0.00200	0.0100	mg/L	1.00	1	PRB	02/13/25	1939	2743191	4
Barium	J	0.187	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0874	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0673	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.277	0.00100	0.00500	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	02/14/25	1351	2743191	5
Boron		0.695	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Calcium		212	0.0800	0.200	mg/L	1.00	1					
Molybdenum	J	0.000606	0.000200	0.100	mg/L	1.00	1					
Potassium		95.5	0.0800	0.300	mg/L	1.00	1					
Magnesium		403	0.0100	0.0300	mg/L	1.00	1	PRB	02/14/25	1217	2743191	6
Sodium		2560	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		10200	23.8	100	mg/L			RR4	02/05/25	1204	2744769	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		262	0.725	2.00	mg/L			JW2	02/03/25	1116	2743465	8
Bicarbonate alkalinity (CaCO3)		262	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-MCM-06	Project:	GPCC00225
Sample ID:	706744002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HS2	02/04/25	0935	2743190
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/25	1105	2744625

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-PT-01	Project:	GPCC00225
Sample ID:	706744003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-JAN-25 11:10		
Receive Date:	31-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CH6	02/01/25	1817	2743200	1
Chloride		4580	33.5	100	mg/L		500	CH6	02/02/25	0740	2743200	2
Sulfate		554	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/25	1145	2744626	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	02/13/25	1941	2743191	4
Arsenic		0.0166	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.558	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0499	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0385	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.299	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000651	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.802	0.00520	0.0150	mg/L	1.00	1	PRB	02/14/25	1221	2743191	5
Calcium		188	0.0800	0.200	mg/L	1.00	1					
Magnesium		325	0.0100	0.0300	mg/L	1.00	1					
Potassium		88.8	0.0800	0.300	mg/L	1.00	1					
Sodium		2560	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8510	23.8	100	mg/L			RR4	02/05/25	1204	2744769	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		266	0.725	2.00	mg/L			JW2	02/03/25	1118	2743465	7
Bicarbonate alkalinity (CaCO3)		266	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-PT-01	Project:	GPCC00225
Sample ID:	706744003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HS2	02/04/25	0935	2743190
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/25	1105	2744625

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-PT-02	Project:	GPCC00225
Sample ID:	706744004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-25 11:35		
Receive Date:	31-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CH6	02/01/25	1848	2743200	1
Chloride		4700	33.5	100	mg/L		500	CH6	02/02/25	0811	2743200	2
Sulfate		568	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/25	1146	2744626	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	02/13/25	1944	2743191	4
Arsenic	J	0.00761	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.578	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		2.18	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0204	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.230	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000655	0.000200	0.100	mg/L	1.00	1					
Selenium	J	0.00154	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.559	0.00520	0.0150	mg/L	1.00	1	PRB	02/14/25	1224	2743191	5
Calcium		195	0.0800	0.200	mg/L	1.00	1					
Magnesium		312	0.0100	0.0300	mg/L	1.00	1					
Potassium		77.3	0.0800	0.300	mg/L	1.00	1					
Sodium		2550	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		10700	23.8	100	mg/L			RR4	02/05/25	1204	2744769	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		218	0.725	2.00	mg/L			JW2	02/03/25	1120	2743465	7
Bicarbonate alkalinity (CaCO3)		218	0.725	2.00	mg/L							

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Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-PT-02	Project:	GPCC00225
Sample ID:	706744004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/25	1105	2744625
SW846 3005A	ICP-MS 3005A PREP	HS2	02/04/25	0935	2743190

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-PT-03	Project:	GPCC00225
Sample ID:	706744005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-25 09:35		
Receive Date:	31-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CH6	02/01/25	1919	2743200	1
Chloride		4430	33.5	100	mg/L		500	CH6	02/02/25	0841	2743200	2
Sulfate		521	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/25	1148	2744626	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	02/13/25	1947	2743191	4
Arsenic		0.0237	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.310	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.265	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0404	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.113	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000773	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.773	0.00520	0.0150	mg/L	1.00	1	PRB	02/14/25	1228	2743191	5
Calcium		182	0.0800	0.200	mg/L	1.00	1					
Magnesium		341	0.0100	0.0300	mg/L	1.00	1					
Potassium		91.8	0.0800	0.300	mg/L	1.00	1					
Sodium		2550	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9100	23.8	100	mg/L			RR4	02/05/25	1204	2744769	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		224	0.725	2.00	mg/L			JW2	02/03/25	1121	2743465	7
Bicarbonate alkalinity (CaCO3)		224	0.725	2.00	mg/L							

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-PT-03	Project:	GPCC00225
Sample ID:	706744005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/25	1105	2744625
SW846 3005A	ICP-MS 3005A PREP	HS2	02/04/25	0935	2743190

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-DR-01	Project:	GPCC00225
Sample ID:	706744006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-25 09:44		
Receive Date:	31-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CH6	02/01/25	2122	2743200	1
Chloride		4260	33.5	100	mg/L		500	CH6	02/02/25	1014	2743200	2
Sulfate		526	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/25	1150	2744626	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	02/13/25	1950	2743191	4
Arsenic		0.0293	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.336	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0454	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.182	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000859	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.875	0.00520	0.0150	mg/L	1.00	1	PRB	02/14/25	1232	2743191	5
Calcium		171	0.0800	0.200	mg/L	1.00	1					
Magnesium		304	0.0100	0.0300	mg/L	1.00	1					
Potassium		91.5	0.0800	0.300	mg/L	1.00	1					
Sodium		2310	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6700	23.8	100	mg/L			RR4	02/05/25	1204	2744769	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		262	0.725	2.00	mg/L			JW2	02/03/25	1122	2743465	7
Bicarbonate alkalinity (CaCO3)		262	0.725	2.00	mg/L							

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-DR-01	Project:	GPCC00225
Sample ID:	706744006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/25	1105	2744625
SW846 3005A	ICP-MS 3005A PREP	HS2	02/04/25	0935	2743190

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-DR-02	Project:	GPCC00225
Sample ID:	706744007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-25 10:55		
Receive Date:	31-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.558	0.330	1.00	mg/L		10	CH6	02/01/25	2153	2743200	1
Chloride		3340	33.5	100	mg/L		500	CH6	02/02/25	1045	2743200	2
Sulfate		397	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/25	1151	2744626	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	02/13/25	1953	2743191	4
Arsenic		0.0912	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0940	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0809	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0528	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.120	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.00114	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.902	0.00520	0.0150	mg/L	1.00	1	PRB	02/14/25	1235	2743191	5
Calcium		148	0.0800	0.200	mg/L	1.00	1					
Magnesium		252	0.0100	0.0300	mg/L	1.00	1					
Potassium		81.2	0.0800	0.300	mg/L	1.00	1					
Sodium		1950	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5560	23.8	100	mg/L			RR4	02/05/25	1204	2744769	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		312	0.725	2.00	mg/L			JW2	02/03/25	1123	2743465	7
Bicarbonate alkalinity (CaCO3)		312	0.725	2.00	mg/L							

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Report Date: February 14, 2025

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Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-DR-02	Project:	GPCC00225
Sample ID:	706744007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HS2	02/04/25	0935	2743190
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/25	1105	2744625

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-DR-03	Project:	GPCC00225
Sample ID:	706744008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-JAN-25 10:54		
Receive Date:	31-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.750	0.330	1.00	mg/L		10	CH6	02/01/25	2224	2743200	1
Chloride		2180	33.5	100	mg/L		500	CH6	02/02/25	1116	2743200	2
Sulfate		297	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/25	1156	2744626	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	02/13/25	1956	2743191	4
Arsenic	J	0.00256	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0288	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		12.7	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0442	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.133	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000445	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.02	0.00520	0.0150	mg/L	1.00	1	PRB	02/14/25	1239	2743191	5
Calcium		83.4	0.0800	0.200	mg/L	1.00	1					
Magnesium		138	0.0100	0.0300	mg/L	1.00	1					
Potassium		61.5	0.0800	0.300	mg/L	1.00	1					
Sodium		1470	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5070	23.8	100	mg/L			RR4	02/05/25	1204	2744769	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		285	0.725	2.00	mg/L			JW2	02/03/25	1124	2743465	7
Bicarbonate alkalinity (CaCO3)		285	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-DR-03	Project:	GPCC00225
Sample ID:	706744008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HS2	02/04/25	0935	2743190
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/25	1105	2744625

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00225
Sample ID:	706744009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-JAN-25 12:00		
Receive Date:	31-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.718	0.330	1.00	mg/L		10	CH6	02/01/25	2255	2743200	1
Chloride		2130	33.5	100	mg/L		500	CH6	02/02/25	1147	2743200	2
Sulfate		299	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/25	1158	2744626	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	02/13/25	1959	2743191	4
Arsenic	J	0.00244	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0281	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		13.5	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0430	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.128	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000452	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.12	0.00520	0.0150	mg/L	1.00	1	PRB	02/14/25	1242	2743191	5
Calcium		78.9	0.0800	0.200	mg/L	1.00	1					
Magnesium		127	0.0100	0.0300	mg/L	1.00	1					
Potassium		58.0	0.0800	0.300	mg/L	1.00	1					
Sodium		1370	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4720	23.8	100	mg/L			RR4	02/05/25	1204	2744769	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		284	0.725	2.00	mg/L			JW2	02/03/25	1126	2743465	7
Bicarbonate alkalinity (CaCO3)		284	0.725	2.00	mg/L							

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Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00225
Sample ID:	706744009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HS2	02/04/25	0935	2743190
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/25	1105	2744625

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	
7	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00225
Sample ID:	706744010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	30-JAN-25 08:05		
Receive Date:	31-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	02/01/25	2357	2743200	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/25	1200	2744626	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	02/13/25	2001	2743191	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron		0.0492	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000275	0.000200	0.100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Sodium	J	0.149	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			RR4	02/05/25	1204	2744769	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/03/25	1127	2743465	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00225
Sample ID:	706744010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HS2	02/04/25	0935	2743190
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/25	1105	2744625

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00225
Sample ID:	706744011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	30-JAN-25 08:11		
Receive Date:	31-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	02/02/25	0027	2743200	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/25	1201	2744626	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	02/13/25	2004	2743191	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron		0.0177	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Sodium	J	0.0825	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			RR4	02/05/25	1204	2744769	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/03/25	1128	2743465	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00225
Sample ID:	706744011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/25	1105	2744625
SW846 3005A	ICP-MS 3005A PREP	HS2	02/04/25	0935	2743190

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-INW-01	Project:	GPCC00225
Sample ID:	706744012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-JAN-25 14:32		
Receive Date:	31-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/25	1203	2744626	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic	J	0.00259	0.00200	0.0100	mg/L	1.00	1	PRB	02/13/25	2013	2743191	2
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		5.26	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00494	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.0513	0.00100	0.00500	mg/L	1.00	1					
Selenium	J	0.00151	0.00150	0.0500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	02/14/25	1406	2743191	3
Barium	J	0.566	0.000670	2.00	mg/L	1.00	1					
Boron		0.724	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Calcium		203	0.0800	0.200	mg/L	1.00	1					
Molybdenum	J	0.000415	0.000200	0.100	mg/L	1.00	1					
Potassium		98.1	0.0800	0.300	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		390	0.0100	0.0300	mg/L	1.00	1	PRB	02/14/25	1252	2743191	4
Sodium		3450	0.0800	0.250	mg/L	1.00	1					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5	PRB	02/14/25	1503	2743191	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HS2	02/04/25	0935	2743190
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/25	1105	2744625

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-INW-01	Project:	GPCC00225
Sample ID:	706744012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-MCM-06	Project:	GPCC00225
Sample ID:	706744013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-JAN-25 14:48		
Receive Date:	31-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/25	1204	2744626	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic		0.0889	0.00200	0.0100	mg/L	1.00	1	PRB	02/13/25	2016	2743191	2
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.195	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0659	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.272	0.00100	0.00500	mg/L	1.00	1					
Selenium	J	0.00161	0.00150	0.0500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	02/14/25	1409	2743191	3
Barium	J	0.180	0.000670	2.00	mg/L	1.00	1					
Boron		0.720	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Calcium		212	0.0800	0.200	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Molybdenum	J	0.0182	0.000200	0.100	mg/L	1.00	1					
Potassium		95.9	0.0800	0.300	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		392	0.0100	0.0300	mg/L	1.00	1	PRB	02/14/25	1255	2743191	4
Sodium		2540	0.0800	0.250	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/25	1105	2744625
SW846 3005A	ICP-MS 3005A PREP	HS2	02/04/25	0935	2743190

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-MCM-06	Project:	GPCC00225
Sample ID:	706744013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-PT-01	Project:	GPCC00225
Sample ID:	706744014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-JAN-25 11:10		
Receive Date:	31-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/25	1206	2744626	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic		0.0149	0.00200	0.0100	mg/L	1.00	1	PRB	02/13/25	2019	2743191	2
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0343	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.0377	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.294	0.00100	0.00500	mg/L	1.00	1					
Selenium	J	0.00170	0.00150	0.0500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	02/14/25	1412	2743191	3
Barium	J	0.519	0.000670	2.00	mg/L	1.00	1					
Boron		0.709	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Calcium		172	0.0800	0.200	mg/L	1.00	1					
Molybdenum	J	0.000378	0.000200	0.100	mg/L	1.00	1					
Potassium		81.6	0.0800	0.300	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		327	0.0100	0.0300	mg/L	1.00	1	PRB	02/14/25	1259	2743191	4
Sodium		2600	0.0800	0.250	mg/L	1.00	1					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5	PRB	02/14/25	1504	2743191	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HS2	02/04/25	0935	2743190
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/25	1105	2744625

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-PT-01	Project:	GPCC00225
Sample ID:	706744014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-PT-02	Project:	GPCC00225
Sample ID:	706744015	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-25 11:35		
Receive Date:	31-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/25	1208	2744626	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Arsenic	J	0.00683	0.00200	0.0100	mg/L	1.00	1	PRB	02/13/25	2021	2743191	2
Barium	J	0.568	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		1.88	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0203	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.222	0.00100	0.00500	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	02/14/25	1415	2743191	3
Boron		0.526	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Calcium		180	0.0800	0.200	mg/L	1.00	1					
Molybdenum	J	0.000387	0.000200	0.100	mg/L	1.00	1					
Potassium		73.8	0.0800	0.300	mg/L	1.00	1					
Magnesium		314	0.0100	0.0300	mg/L	1.00	1	PRB	02/14/25	1302	2743191	4
Sodium		2550	0.0800	0.250	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HS2	02/04/25	0935	2743190
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/25	1105	2744625

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-PT-02	Project:	GPCC00225
Sample ID:	706744015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-PT-03	Project:	GPCC00225
Sample ID:	706744016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-25 09:35		
Receive Date:	31-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/25	1209	2744626	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	02/13/25	2024	2743191	2
Arsenic		0.0212	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.309	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron		0.685	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Calcium		170	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0991	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0400	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.112	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000466	0.000200	0.100	mg/L	1.00	1					
Potassium		86.9	0.0800	0.300	mg/L	1.00	1					
Selenium	J	0.00150	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		329	0.0100	0.0300	mg/L	1.00	1	PRB	02/14/25	1306	2743191	3
Sodium		2490	0.0800	0.250	mg/L	1.00	1					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5	PRB	02/14/25	1505	2743191	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/25	1105	2744625
SW846 3005A	ICP-MS 3005A PREP	HS2	02/04/25	0935	2743190

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-PT-03	Project:	GPCC00225
Sample ID:	706744016	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-DR-01	Project:	GPCC00225
Sample ID:	706744017	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-25 09:44		
Receive Date:	31-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/25	1211	2744626	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	02/13/25	2027	2743191	2
Arsenic		0.0336	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.341	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron		0.807	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Calcium		170	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lithium		0.0463	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.184	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000478	0.000200	0.100	mg/L	1.00	1					
Potassium		91.5	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		316	0.0100	0.0300	mg/L	1.00	1	PRB	02/14/25	1310	2743191	3
Sodium		2410	0.0800	0.250	mg/L	1.00	1					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5	PRB	02/14/25	1507	2743191	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/25	1105	2744625
SW846 3005A	ICP-MS 3005A PREP	HS2	02/04/25	0935	2743190

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-DR-01	Project:	GPCC00225
Sample ID:	706744017	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-DR-02	Project:	GPCC00225
Sample ID:	706744018	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	30-JAN-25 10:55		
Receive Date:	31-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/25	1216	2744626	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	02/13/25	2030	2743191	2
Arsenic		0.0938	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0971	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0549	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.123	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000741	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.880	0.00520	0.0150	mg/L	1.00	1	PRB	02/14/25	1313	2743191	3
Calcium		145	0.0800	0.200	mg/L	1.00	1					
Magnesium		249	0.0100	0.0300	mg/L	1.00	1					
Potassium		79.3	0.0800	0.300	mg/L	1.00	1					
Sodium		1910	0.0800	0.250	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HS2	02/04/25	0935	2743190
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/25	1105	2744625

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-DR-02	Project:	GPCC00225
Sample ID:	706744018	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-DR-03	Project:	GPCC00225
Sample ID:	706744019	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-JAN-25 10:54		
Receive Date:	31-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/25	1217	2744626	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	02/13/25	2033	2743191	2
Arsenic	J	0.00241	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0288	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		9.71	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0445	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.130	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000343	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.10	0.00520	0.0150	mg/L	1.00	1	PRB	02/14/25	1317	2743191	3
Calcium		78.5	0.0800	0.200	mg/L	1.00	1					
Magnesium		130	0.0100	0.0300	mg/L	1.00	1					
Potassium		59.5	0.0800	0.300	mg/L	1.00	1					
Sodium		1410	0.0800	0.250	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/25	1105	2744625
SW846 3005A	ICP-MS 3005A PREP	HS2	02/04/25	0935	2743190

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-DR-03	Project:	GPCC00225
Sample ID:	706744019	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00225
Sample ID:	706744020	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	29-JAN-25 12:00		
Receive Date:	31-JAN-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/06/25	1219	2744626	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	PRB	02/13/25	2036	2743191	2
Arsenic	J	0.00234	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0290	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		9.48	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0453	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.131	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000346	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.09	0.00520	0.0150	mg/L	1.00	1	PRB	02/14/25	1320	2743191	3
Calcium		81.7	0.0800	0.200	mg/L	1.00	1					
Magnesium		134	0.0100	0.0300	mg/L	1.00	1					
Potassium		60.5	0.0800	0.300	mg/L	1.00	1					
Sodium		1450	0.0800	0.250	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/05/25	1105	2744625
SW846 3005A	ICP-MS 3005A PREP	HS2	02/04/25	0935	2743190

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	

Notes:

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: February 14, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 23-Week Sampling January 2025

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00225
Sample ID:	706744020	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: February 14, 2025

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **706744**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography												
Batch 2743200												
QC1205992466 706875027 DUP												
Chloride			167		167	mg/L	0.009		(0%-20%)	CH6	02/03/25	15:30
Fluoride		U	ND	U	ND	mg/L	N/A				02/02/25	05:36
Sulfate			254		253	mg/L	0.437		(0%-20%)		02/03/25	15:30
QC1205992463 LCS												
Chloride	5.00				4.70	mg/L		94	(90%-110%)		02/01/25	15:09
Fluoride	2.50				2.37	mg/L		95	(90%-110%)			
Sulfate	10.0				9.63	mg/L		96.3	(90%-110%)			
QC1205992462 MB												
Chloride				U	ND	mg/L					02/01/25	14:38
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1205992467 706875027 PS												
Chloride	5.00		3.33		8.47	mg/L		103	(90%-110%)		02/03/25	16:01
Fluoride	2.50	U	ND		2.49	mg/L		99.5	(90%-110%)		02/02/25	06:07
Sulfate	10.0		5.09		15.1	mg/L		99.8	(90%-110%)		02/03/25	16:01

QC Summary

Workorder: **706744**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2743191										
QC1205992442 LCS										
Antimony	0.0500			0.0483	mg/L		96.5	(80%-120%)	PRB	02/13/25 19:16
Arsenic	0.0500			0.0479	mg/L		95.8	(80%-120%)		
Barium	0.0500			0.0507	mg/L		101	(80%-120%)		
Beryllium	0.0500			0.0553	mg/L		111	(80%-120%)		
Boron	0.100			0.107	mg/L		107	(80%-120%)		
Cadmium	0.0500			0.0504	mg/L		101	(80%-120%)		
Calcium	2.00			2.12	mg/L		106	(80%-120%)		
Chromium	0.0500			0.0497	mg/L		99.5	(80%-120%)		
Cobalt	0.0500			0.0487	mg/L		97.5	(80%-120%)		
Iron	2.00			1.94	mg/L		96.9	(80%-120%)		
Lead	0.0500			0.0515	mg/L		103	(80%-120%)		
Lithium	0.0500			0.0522	mg/L		104	(80%-120%)		
Magnesium	2.00			1.97	mg/L		98.7	(80%-120%)		
Manganese	0.0500			0.0475	mg/L		95	(80%-120%)		

QC Summary

Workorder: **706744**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2743191										
Molybdenum	0.0500			0.0513	mg/L		103	(80%-120%)	PRB	02/13/25 19:16
Potassium	2.00			1.99	mg/L		99.5	(80%-120%)		
Selenium	0.0500			0.0471	mg/L		94.2	(80%-120%)		
Sodium	2.00			1.82	mg/L		90.9	(80%-120%)		
Thallium	0.0500			0.0494	mg/L		98.8	(80%-120%)		
QC1205992441 MB										
Antimony			U	ND	mg/L					02/13/25 19:13
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **706744**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2743191										
Iron			U	ND	mg/L				PRB	02/13/25 19:13
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1205992443 706744001 MS										
Antimony	0.0500	U	ND	0.0490	mg/L		97.7	(75%-125%)		02/14/25 16:47
Arsenic	0.0500	J	0.00210	0.0442	mg/L		84.1	(75%-125%)		02/13/25 19:21
Barium	0.0500	J	0.573	0.602	mg/L		N/A	(75%-125%)		02/14/25 16:47
Beryllium	0.0500	U	ND	0.0479	mg/L		95.8	(75%-125%)		02/13/25 19:21

QC Summary

Workorder: **706744**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2743191											
Boron	0.100		0.712		0.787	mg/L		N/A	(75%-125%)	PRB	02/14/25 16:47
Cadmium	0.0500	U	ND		0.0474	mg/L		94.9	(75%-125%)		
Calcium	2.00		201		195	mg/L		N/A	(75%-125%)		
Chromium	0.0500	U	ND		0.0474	mg/L		93.6	(75%-125%)		02/13/25 19:21
Cobalt	0.0500	U	ND		0.0429	mg/L		85.7	(75%-125%)		
Iron	2.00		5.62		7.08	mg/L		73.1*	(75%-125%)		
Lead	0.0500	U	ND		0.0455	mg/L		91	(75%-125%)		02/14/25 16:47
Lithium	0.0500	J	0.00486		0.0555	mg/L		101	(75%-125%)		02/13/25 19:21
Magnesium	2.00		358		360	mg/L		N/A	(75%-125%)		02/14/25 16:30
Manganese	0.0500		0.0511		0.0938	mg/L		85.4	(75%-125%)		02/13/25 19:21
Molybdenum	0.0500	J	0.000540		0.0562	mg/L		111	(75%-125%)		02/14/25 16:47
Potassium	2.00		97.3		94.8	mg/L		N/A	(75%-125%)		
Selenium	0.0500	J	0.00159		0.0410	mg/L		78.7	(75%-125%)		02/13/25 19:21
Sodium	2.00		3220		3220	mg/L		N/A	(75%-125%)		02/14/25 16:30

QC Summary

Workorder: **706744**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2743191											
Thallium	0.0500	U	ND		0.0434	mg/L		86.9	(75%-125%)	PRB	02/14/25 16:47
QC1205992444 706744001 MSD											
Antimony	0.0500	U	ND		0.0516	mg/L	5.26	103	(0%-20%)		02/14/25 16:50
Arsenic	0.0500	J	0.00210		0.0453	mg/L	2.55	86.4	(0%-20%)		02/13/25 19:24
Barium	0.0500	J	0.573		0.625	mg/L	3.72	N/A	(0%-20%)		02/14/25 16:50
Beryllium	0.0500	U	ND		0.0486	mg/L	1.37	97.1	(0%-20%)		02/13/25 19:24
Boron	0.100		0.712		0.845	mg/L	7.08	N/A	(0%-20%)		02/14/25 16:50
Cadmium	0.0500	U	ND		0.0497	mg/L	4.68	99.4	(0%-20%)		
Calcium	2.00		201		208	mg/L	6.33	N/A	(0%-20%)		
Chromium	0.0500	U	ND		0.0485	mg/L	2.2	95.7	(0%-20%)		02/13/25 19:24
Cobalt	0.0500	U	ND		0.0433	mg/L	0.988	86.5	(0%-20%)		
Iron	2.00		5.62		7.25	mg/L	2.43	81.8	(0%-20%)		
Lead	0.0500	U	ND		0.0466	mg/L	2.51	93.3	(0%-20%)		02/14/25 16:50
Lithium	0.0500	J	0.00486		0.0577	mg/L	3.82	106	(0%-20%)		02/13/25 19:24
Magnesium	2.00		358		388	mg/L	7.64	N/A	(0%-20%)		02/14/25 16:32

QC Summary

Workorder: **706744**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS												
Batch 2743191												
Manganese	0.0500		0.0511		0.0951	mg/L	1.3		87.9	(0%-20%)	PRB	02/13/25 19:24
Molybdenum	0.0500	J	0.000540		0.0598	mg/L	6.17		118	(0%-20%)		02/14/25 16:50
Potassium	2.00		97.3		102	mg/L	7.43		N/A	(0%-20%)		
Selenium	0.0500	J	0.00159		0.0404	mg/L	1.33		77.7	(0%-20%)		02/13/25 19:24
Sodium	2.00		3220		3470	mg/L	7.37		N/A	(0%-20%)		02/14/25 16:32
Thallium	0.0500	U	ND		0.0452	mg/L	4		90.4	(0%-20%)		02/14/25 16:50
QC1206006755 706744001 PS												
Iron	2000		5620		7040	ug/L			71.4*	(75%-125%)		02/13/25 19:27
QC1205992445 706744001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A			(0%-20%)		02/14/25 16:55
Arsenic		J	2.10	U	ND	ug/L	N/A			(0%-20%)		02/13/25 19:30
Barium		J	115	EJ	22.8	ug/L	.463	*		(0%-20%)		02/14/25 16:55
Beryllium		U	ND	U	ND	ug/L	N/A			(0%-20%)		02/13/25 19:30
Boron			142	E	38.3	ug/L	34.5	*		(0%-20%)		02/14/25 16:55
Cadmium		U	ND	U	ND	ug/L	N/A			(0%-20%)		
Calcium			40300	E	7900	ug/L	1.98	*		(0%-20%)		

QC Summary

Workorder: **706744**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2743191										
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	02/13/25 19:30
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Iron		5620		1120	ug/L	.511		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/14/25 16:55
Lithium	J	4.86	U	ND	ug/L	N/A		(0%-20%)		02/13/25 19:30
Magnesium		3580		720	ug/L	.686		(0%-20%)		02/14/25 16:35
Manganese		51.1		10.2	ug/L	.242		(0%-20%)		02/13/25 19:30
Molybdenum	J	0.108	U	ND	ug/L	N/A		(0%-20%)		02/14/25 16:55
Potassium		19500	E	3810	ug/L	1.97	*	(0%-20%)		
Selenium	J	1.59	U	ND	ug/L	N/A		(0%-20%)		02/13/25 19:30
Sodium		32200		6470	ug/L	.622		(0%-20%)		02/14/25 16:35
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/14/25 16:55
Metals Analysis-Mercury										
Batch 2744626										
QC1205995059 706744001 DUP										
Mercury	J	0.000100	U	ND	mg/L	200	^		JP2	02/06/25 11:37

QC Summary

Workorder: **706744**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury											
Batch 2744626											
QC1205995058 LCS											
Mercury	0.00200				0.00223	mg/L		112	(80%-120%)	JP2	02/06/25 11:30
QC1205995057 MB											
Mercury				U	ND	mg/L					02/06/25 11:28
QC1205995060 706744001 MS											
Mercury	0.00200	J	0.000100		0.00186	mg/L		88	(75%-125%)		02/06/25 11:38
QC1205995061 706744001 SDILT											
Mercury		J	0.100	U	ND	ug/L	N/A		(0%-10%)		02/06/25 11:40
Solids Analysis											
Batch 2744769											
QC1205995398 706722018 DUP											
Total Dissolved Solids			857		823	mg/L	4.05		(0%-5%)	RR4	02/05/25 12:04
QC1205995396 LCS											
Total Dissolved Solids	300				285	mg/L		95	(95%-105%)		02/05/25 12:04
QC1205995395 MB											
Total Dissolved Solids				U	ND	mg/L					02/05/25 12:04
Titration and Ion Analysis											
Batch 2743465											
QC1205993040 LCS											
Alkalinity, Total as CaCO3	50.0				53.2	mg/L		106	(90%-110%)	JW2	02/03/25 10:59
QC1205993041 LCS											
Alkalinity, Total as CaCO3	15.0				15.8	mg/L		105	(90%-110%)		02/03/25 11:02
QC1205993042 LCSD											
Alkalinity, Total as CaCO3	50.0				53.6	mg/L	0.749	107	(0%-20%)		02/03/25 11:01

QC Summary

Workorder: **706744**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Titration and Ion Analysis											
Batch 2743465											
QC1205993043 LCSD											
Alkalinity, Total as CaCO3	15.0			15.8	mg/L	0	105	(0%-20%)	JW2	02/03/25	11:03

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
x	Subaliquot was taken. See Case Narrative for details.

QC Summary

Workorder: **706744**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 706744

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2743191

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2743190

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
706744001	MCM-INW-01
706744002	MCM-MCM-06
706744003	MCM-PT-01
706744004	MCM-PT-02
706744005	MCM-PT-03
706744006	MCM-DR-01
706744007	MCM-DR-02
706744008	MCM-DR-03
706744009	MCM-AP1-FD-01
706744010	MCM-AP1-FB-01
706744011	MCM-AP1-EB-01
706744012	MCM-INW-01
706744013	MCM-MCM-06
706744014	MCM-PT-01
706744015	MCM-PT-02
706744016	MCM-PT-03
706744017	MCM-DR-01
706744018	MCM-DR-02
706744019	MCM-DR-03
706744020	MCM-AP1-FD-01
1205992441	Method Blank (MB)**ICP-MS**
1205992442	Laboratory Control Sample (LCS)
1205992445	706744001(MCM-INW-01L) Serial Dilution (SD)
1205992443	706744001(MCM-INW-01S) Matrix Spike (MS)
1205992444	706744001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)
1206006755	706744001(MCM-INW-01PS) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement
The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike recovery was within the required control limits. This verifies the absence of a matrix interference in the post-spike digested sample. The recovery may be attributed to possible sample matrix interference and/or non-homogeneity.

Sample	Analyte	Value
1205992443 (MCM-INW-01MS)	Iron	73.1* (75%-125%)

Serial Dilution % Difference Statement
The serial dilution is used to assess matrix suppression or enhancement. Raw element concentrations 25x the IDL/MDL for CVAA, 50X the IDL/MDL for ICP and 100X the IDL/MDL for ICP-MS analyses are applicable for serial dilution assessment. Not all the applicable analytes were within the established acceptance criteria. Matrix suppression may be suspected. The data has been qualified.

Sample	Analyte	Value
1205992445 (MCM-INW-01SDILT)	Barium	78.2 *(0%-20%)
	Boron	72.6 *(0%-20%)
	Calcium	78.6 *(0%-20%)
	Potassium	78.7 *(0%-20%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 706744001 (MCM-INW-01), 706744002 (MCM-MCM-06), 706744003 (MCM-PT-01), 706744004 (MCM-PT-02), 706744005 (MCM-PT-03), 706744006 (MCM-DR-01), 706744007 (MCM-DR-02), 706744008 (MCM-DR-03), 706744009 (MCM-AP1-FD-01), 706744012 (MCM-INW-01), 706744013 (MCM-MCM-06), 706744014 (MCM-PT-01), 706744015 (MCM-PT-02), 706744016 (MCM-PT-03), 706744017 (MCM-DR-01), 706744018 (MCM-DR-02), 706744019 (MCM-DR-03) and 706744020 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 706744001 (MCM-INW-01), 706744002 (MCM-MCM-06), 706744012 (MCM-INW-01), 706744013 (MCM-MCM-06), 706744014 (MCM-PT-01), 706744015 (MCM-PT-02), 706744016 (MCM-PT-03) and 706744017 (MCM-DR-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	706744				
	001	012	014	016	017
Antimony	5X	1X	1X	1X	1X
Barium	5X	1X	1X	1X	1X
Boron	5X	1X	1X	1X	1X
Cadmium	5X	1X	1X	1X	1X

Calcium	5X	1X	1X	1X	1X
Lead	5X	5X	5X	5X	5X
Magnesium	100X	1X	1X	1X	1X
Molybdenum	5X	1X	1X	1X	1X
Potassium	5X	1X	1X	1X	1X
Sodium	100X	1X	1X	1X	1X
Thallium	5X	1X	1X	1X	1X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2744626

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2744625

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
706744001	MCM-INW-01
706744002	MCM-MCM-06
706744003	MCM-PT-01
706744004	MCM-PT-02
706744005	MCM-PT-03
706744006	MCM-DR-01
706744007	MCM-DR-02
706744008	MCM-DR-03
706744009	MCM-AP1-FD-01
706744010	MCM-AP1-FB-01
706744011	MCM-AP1-EB-01
706744012	MCM-INW-01
706744013	MCM-MCM-06
706744014	MCM-PT-01
706744015	MCM-PT-02
706744016	MCM-PT-03
706744017	MCM-DR-01
706744018	MCM-DR-02
706744019	MCM-DR-03
706744020	MCM-AP1-FD-01
1205995057	Method Blank (MB)**CVAA**
1205995058	Laboratory Control Sample (LCS)
1205995061	706744001(MCM-INW-01L) Serial Dilution (SD)
1205995059	706744001(MCM-INW-01D) Sample Duplicate (DUP)
1205995060	706744001(MCM-INW-01S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report

met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 36
Analytical Batch: 2743200

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
706744001	MCM-INW-01
706744002	MCM-MCM-06
706744003	MCM-PT-01
706744004	MCM-PT-02
706744005	MCM-PT-03
706744006	MCM-DR-01
706744007	MCM-DR-02
706744008	MCM-DR-03
706744009	MCM-AP1-FD-01
706744010	MCM-AP1-FB-01
706744011	MCM-AP1-EB-01
1205992462	Method Blank (MB)
1205992463	Laboratory Control Sample (LCS)
1205992466	706875027(NonSDG) Sample Duplicate (DUP)
1205992467	706875027(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1205992466 (Non SDG 706875027DUP) and 1205992467 (Non SDG 706875027PS) were diluted because target analyte concentrations exceeded the calibration range. Samples 706744001 (MCM-INW-01), 706744002 (MCM-MCM-06), 706744003 (MCM-PT-01), 706744004 (MCM-PT-02), 706744005 (MCM-PT-03), 706744006 (MCM-DR-01), 706744007 (MCM-DR-02), 706744008 (MCM-DR-03) and 706744009 (MCM-AP1-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	706744								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	500X	500X	500X	500X	500X	500X	500X	500X
Fluoride	10X	10X	10X	10X	10X	10X	10X	10X	10X
Sulfate	1000X	500X	500X	500X	500X	500X	500X	500X	500X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2744769

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
706744001	MCM-INW-01
706744002	MCM-MCM-06
706744003	MCM-PT-01
706744004	MCM-PT-02
706744005	MCM-PT-03
706744006	MCM-DR-01
706744007	MCM-DR-02
706744008	MCM-DR-03
706744009	MCM-AP1-FD-01
706744010	MCM-AP1-FB-01
706744011	MCM-AP1-EB-01
1205995395	Method Blank (MB)
1205995396	Laboratory Control Sample (LCS)
1205995398	706722018(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the samples for approximate concentration prior to analysis. 706744001 (MCM-INW-01), 706744002 (MCM-MCM-06), 706744003 (MCM-PT-01), 706744004 (MCM-PT-02), 706744005 (MCM-PT-03), 706744006 (MCM-DR-01), 706744007 (MCM-DR-02), 706744008 (MCM-DR-03) and 706744009 (MCM-AP1-FD-01).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2743465

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
706744001	MCM-INW-01
706744002	MCM-MCM-06
706744003	MCM-PT-01
706744004	MCM-PT-02
706744005	MCM-PT-03

706744006	MCM-DR-01
706744007	MCM-DR-02
706744008	MCM-DR-03
706744009	MCM-AP1-FD-01
706744010	MCM-AP1-FB-01
706744011	MCM-AP1-EB-01
1205993040	Laboratory Control Sample (LCS)
1205993041	Laboratory Control Sample (LCS)
1205993042	Laboratory Control Sample Duplicate (LCSD)
1205993043	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

706744

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 23-Week Sampling January 2025 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Natalie Piparo, Jay Siewert (EnSafe) Send Results To: knjurink@southernco.com; npiparo@ensafe.com; tgodwin@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list	Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)	Comments
									NI	NI					
MCM-INW-01	01/29/25	1432	G	Y*	WG			5	X	X	X	X	X		Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl
MCM-MCM-06	01/29/25	1448	G	Y*	WG			5	X	X	X	X	X		
MCM-PT-01	01/29/25	1110	G	Y*	WG			5	X	X	X	X	X		
MCM-PT-02	01/30/25	1135	G	Y*	WG			5	X	X	X	X	X		
MCM-PT-03	01/30/25	0935	G	Y*	WG			5	X	X	X	X	X		
MCM-DR-01	01/30/25	0944	G	Y*	WG			5	X	X	X	X	X		
MCM-DR-02	01/30/25	1055	G	Y*	WG			5	X	X	X	X	X		
MCM-DR-03	01/29/25	1054	G	Y*	WG			5	X	X	X	X	X		
MCM-AP1-FD-01	01/29/25	—	FD	Y*	WG			5	X	X	X	X	X		
MCM-AP1-FB-01	01/30/25	0805	FB	N	WQ			4	X		X	X	X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	EnSafe	01/30/25	1515	1 FedEx	1/31/25	0930
2				2		
3				3		

TAT Requested: **Normal:** X **Rush:** _____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20250127**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 2 °C

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - 3, *6010B/7470A* - 1).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

****Dissolved metals are the only Field Filterd Samples****

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 23-Week Sampling January 2025 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Natalie Piparo, Jay Siewert (EnSafe) Send Results To: knjurink@southernco.com; npiparo@ensafe.com; tgodwin@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID ** For composites - indicate start and stop date/time*	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)					<-- Preservative Type (6)
MCM-AP1-EB-01	01/30/25	0911	EB	N	WQ			4	X		X	X	X					Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	EnSafe	01/30/25	1515	1 Fed Ex		
2				2	1/31/25	730
3				3		

TAT Requested: Normal: __X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20250127**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* *Cooler Temp:* 3 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Page 83 of 95 SDG: 706744

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order: 706744	GEL PM:
Received By: QG	Date Received at GEL: 1/31/25	

Courier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
---- -297 -398	2C				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs ✓ Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: (Wet Ice) Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials HB Date FEB 03 2025

☐ Continuation Form Required when selected

List of current GEL Certifications as of 14 February 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

May 01, 2025

Re:
Work Order:

Dear :

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on April 17, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
720062001	MCM-INW-01	Ground Water	04/15/25 14:07	04/17/25 09:15
720062002	MCM-MCM-06	Ground Water	04/16/25 11:41	04/17/25 09:15
720062003	MCM-PT-01	Ground Water	04/15/25 10:39	04/17/25 09:15
720062004	MCM-PT-02	Ground Water	04/16/25 09:43	04/17/25 09:15
720062005	MCM-PT-03	Ground Water	04/16/25 12:16	04/17/25 09:15
720062006	MCM-DR-01	Ground Water	04/15/25 13:55	04/17/25 09:15
720062007	MCM-DR-02	Ground Water	04/16/25 10:25	04/17/25 09:15
720062008	MCM-DR-03	Ground Water	04/15/25 11:08	04/17/25 09:15
720062009	MCM-AP1-FD-01	Ground Water	04/16/25 12:00	04/17/25 09:15
720062010	MCM-AP1-FB-01	Water	04/15/25 15:47	04/17/25 09:15
720062011	MCM-AP1-EB-01	Water	04/15/25 15:57	04/17/25 09:15
720062012	MCM-INW-01	Ground Water	04/15/25 14:07	04/17/25 09:15
720062013	MCM-MCM-06	Ground Water	04/16/25 11:41	04/17/25 09:15
720062014	MCM-PT-01	Ground Water	04/15/25 10:39	04/17/25 09:15
720062015	MCM-PT-02	Ground Water	04/16/25 09:43	04/17/25 09:15
720062016	MCM-PT-03	Ground Water	04/16/25 12:16	04/17/25 09:15

720062017	MCM-DR-01	Ground Water	04/15/25 13:55	04/17/25 09:15
720062018	MCM-DR-02	Ground Water	04/16/25 10:25	04/17/25 09:15
720062019	MCM-DR-03	Ground Water	04/15/25 11:08	04/17/25 09:15
720062020	MCM-AP1-FD-01	Ground Water	04/16/25 12:00	04/17/25 09:15

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

Method	Run Date ID
SW846 3005A	26-APR-2025
SW846 7470A Prep	28-APR-2025

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	21-APR-2025
EPA 300.0	22-APR-2025
EPA 300.0	23-APR-2025
SM 2320B	29-APR-2025
SM 2320B	30-APR-2025
SM 2540C	22-APR-2025
SW846 3005A/6020B	29-APR-2025
SW846 7470A	29-APR-2025

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,

Kierra McKnight for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 720062 GEL Work Order: 720062

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-INW-01	Project:	GPCC00625
Sample ID:	720062001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-APR-25 14:07		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	04/21/25	2115	2784798	1
Chloride		6160	67.0	200	mg/L		1000	CWW	04/21/25	2147	2784798	2
Sulfate		747	133	400	mg/L		1000					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	0953	2788234	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1857	2786042	4
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.581	0.00335	2.00	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00400	mg/L	1.00	5					
Boron		0.844	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		207	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.100	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.0360	mg/L	1.00	5					
Iron		4.17	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Lithium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.0484	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		113	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Sodium		3440	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1510	2786042	5
Magnesium		433	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1704	2786042	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		11100	23.8	100	mg/L			SC1	04/22/25	1404	2784983	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		194	0.725	2.00	mg/L			BR2	04/29/25	1235	2789240	8
Bicarbonate alkalinity (CaCO3)		194	0.725	2.00	mg/L							

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: May 1, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-INW-01 Project: GPCC00625
Sample ID: 720062001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 1, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-MCM-06
Sample ID: 720062002
Matrix: WG
Collect Date: 16-APR-25 11:41
Receive Date: 17-APR-25
Collector: Client

Project: GPCC00625
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.349	0.165	0.500	mg/L		5	CWW	04/21/25	2219	2784798	1
Sulfate		661	66.5	200	mg/L		500	CWW	04/21/25	2250	2784798	2
Chloride		4870	67.0	200	mg/L		1000	CWW	04/23/25	0151	2784798	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1004	2788234	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium	J	0.224	0.000670	2.00	mg/L	1.00	1	RM4	04/29/25	2133	2786042	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0426	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0545	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.287	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1916	2786042	6
Arsenic		0.0641	0.0100	0.0250	mg/L	1.00	5					
Boron		0.708	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		211	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		95.9	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Sodium		2770	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1529	2786042	7
Magnesium		374	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1723	2786042	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9150	23.8	100	mg/L			SC1	04/22/25	1020	2784985	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		220	0.725	2.00	mg/L			HH2	04/30/25	1026	2789857	10
Bicarbonate alkalinity (CaCO3)		220	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-MCM-06	Project:	GPCC00625
Sample ID:	720062002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-01	Project:	GPCC00625
Sample ID:	720062003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-APR-25 10:39		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.494	0.330	1.00	mg/L		10	CWW	04/21/25	2322	2784798	1
Chloride		4610	33.5	100	mg/L		500	CWW	04/21/25	2354	2784798	2
Sulfate		473	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1006	2788234	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium	J	0.482	0.000670	2.00	mg/L	1.00	1	RM4	04/29/25	2137	2786042	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0482	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0332	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.251	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1920	2786042	5
Arsenic	J	0.0215	0.0100	0.0250	mg/L	1.00	5					
Boron		0.854	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		168	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		86.1	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Sodium		2470	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1540	2786042	6
Magnesium		311	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1726	2786042	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8390	23.8	100	mg/L			SC1	04/22/25	1020	2784985	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		304	0.725	2.00	mg/L			BR2	04/29/25	1238	2789240	9
Bicarbonate alkalinity (CaCO3)		304	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-01	Project:	GPCC00625
Sample ID:	720062003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-02	Project:	GPCC00625
Sample ID:	720062004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 09:43		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	04/22/25	0026	2784798	1
Sulfate		590	66.5	200	mg/L		500	CWW	04/22/25	0058	2784798	2
Chloride		4950	67.0	200	mg/L		1000	CWW	04/23/25	0223	2784798	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1008	2788234	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium	J	0.581	0.000670	2.00	mg/L	1.00	1	RM4	04/29/25	2140	2786042	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		3.80	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0231	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.221	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1924	2786042	6
Arsenic	J	0.0146	0.0100	0.0250	mg/L	1.00	5					
Boron		0.693	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		196	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		92.7	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Sodium		2750	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1544	2786042	7
Magnesium		361	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1730	2786042	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9180	23.8	100	mg/L			SC1	04/22/25	1020	2784985	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		220	0.725	2.00	mg/L			HH2	04/30/25	1029	2789857	10
Bicarbonate alkalinity (CaCO3)		220	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 1, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-PT-02 Project: GPCC00625
Sample ID: 720062004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 1, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-PT-03
Sample ID: 720062005
Matrix: WG
Collect Date: 16-APR-25 12:16
Receive Date: 17-APR-25
Collector: Client

Project: GPCC00625
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.506	0.330	1.00	mg/L		10	CWW	04/22/25	0130	2784798	1
Chloride		4570	33.5	100	mg/L		500	CWW	04/22/25	0201	2784798	2
Sulfate		498	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1009	2788234	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium	J	0.275	0.000670	2.00	mg/L	1.00	1	RM4	04/29/25	2144	2786042	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0561	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0398	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.112	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1928	2786042	5
Arsenic		0.0450	0.0100	0.0250	mg/L	1.00	5					
Boron		0.775	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		168	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		93.7	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Sodium		2400	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1548	2786042	6
Magnesium		338	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1734	2786042	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8130	23.8	100	mg/L			SC1	04/22/25	1020	2784985	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		233	0.725	2.00	mg/L			HH2	04/30/25	1031	2789857	9
Bicarbonate alkalinity (CaCO3)		233	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-03	Project:	GPCC00625
Sample ID:	720062005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 1, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-DR-01
Sample ID: 720062006
Matrix: WG
Collect Date: 15-APR-25 13:55
Receive Date: 17-APR-25
Collector: Client

Project: GPCC00625
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.533	0.330	1.00	mg/L		10	CWW	04/22/25	0337	2784798	1
Chloride		4210	33.5	100	mg/L		500	CWW	04/22/25	0409	2784798	2
Sulfate		496	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1011	2788234	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium	J	0.307	0.000670	2.00	mg/L	1.00	1	RM4	04/29/25	2148	2786042	4
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0394	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.165	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1931	2786042	5
Arsenic		0.0360	0.0100	0.0250	mg/L	1.00	5					
Boron		0.815	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		152	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		86.3	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Sodium		2280	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1552	2786042	6
Magnesium		292	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1738	2786042	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7470	23.8	100	mg/L			SC1	04/22/25	1020	2784985	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		278	0.725	2.00	mg/L			BR2	04/29/25	1242	2789240	9
Bicarbonate alkalinity (CaCO3)		278	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-01	Project:	GPCC00625
Sample ID:	720062006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-02	Project:	GPCC00625
Sample ID:	720062007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 10:25		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.657	0.330	1.00	mg/L		10	CWW	04/22/25	0441	2784798	1
Chloride		3560	33.5	100	mg/L		500	CWW	04/22/25	0512	2784798	2
Sulfate		360	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1012	2788234	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	RM4	04/29/25	2152	2786042	4
Barium	J	0.0807	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		0.495	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0483	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.125	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000880	0.000200	0.100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic		0.104	0.0100	0.0250	mg/L	1.00	5	RM4	04/29/25	1943	2786042	5
Boron		0.804	0.0260	0.0750	mg/L	1.00	5					
Calcium		145	0.400	1.00	mg/L	1.00	5					
Potassium		76.8	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Sodium		2010	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1555	2786042	6
Magnesium		261	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1749	2786042	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6310	23.8	100	mg/L			SC1	04/22/25	1020	2784985	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		337	0.725	2.00	mg/L			HH2	04/30/25	1033	2789857	9
Bicarbonate alkalinity (CaCO3)		337	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-02	Project:	GPCC00625
Sample ID:	720062007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-03	Project:	GPCC00625
Sample ID:	720062008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-APR-25 11:08		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.805	0.330	1.00	mg/L		10	CWW	04/22/25	0544	2784798	1
Chloride		2450	33.5	100	mg/L		500	CWW	04/22/25	0616	2784798	2
Sulfate		259	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1014	2788234	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	RM4	04/29/25	2051	2786042	4
Arsenic	J	0.00523	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0383	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		11.5	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0436	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.117	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000348	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.955	0.0260	0.0750	mg/L	1.00	5	RM4	04/29/25	1947	2786042	5
Calcium		96.1	0.400	1.00	mg/L	1.00	5					
Magnesium		157	0.0500	0.150	mg/L	1.00	5					
Potassium		59.2	0.400	1.50	mg/L	1.00	5					
Sodium		1480	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1559	2786042	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4780	23.8	100	mg/L			SC1	04/22/25	1020	2784985	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		269	0.725	2.00	mg/L			BR2	04/29/25	1249	2789240	8
Bicarbonate alkalinity (CaCO3)		269	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-03	Project:	GPCC00625
Sample ID:	720062008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00625
Sample ID:	720062009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 12:00		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	04/22/25	0648	2784798	1
Sulfate		571	66.5	200	mg/L		500	CWW	04/22/25	0720	2784798	2
Chloride		4790	67.0	200	mg/L		1000	CWW	04/23/25	0255	2784798	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1016	2788234	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium	J	0.582	0.000670	2.00	mg/L	1.00	1	RM4	04/29/25	2156	2786042	5
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		4.01	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0237	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.227	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1950	2786042	6
Arsenic	J	0.0150	0.0100	0.0250	mg/L	1.00	5					
Boron		0.717	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		203	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		94.1	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Sodium		2810	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1603	2786042	7
Magnesium		367	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1757	2786042	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9580	23.8	100	mg/L			SC1	04/22/25	1020	2784985	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		220	0.725	2.00	mg/L			HH2	04/30/25	1035	2789857	10
Bicarbonate alkalinity (CaCO3)		220	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00625
Sample ID:	720062009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00625
Sample ID:	720062010	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	15-APR-25 15:47		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	04/22/25	0752	2784798	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1020	2788234	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	RM4	04/29/25	1502	2786042	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			SC1	04/22/25	1020	2784985	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			BR2	04/29/25	1253	2789240	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 1, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-AP1-FB-01 Project: GPCC00625
Sample ID: 720062010 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00625
Sample ID:	720062011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	15-APR-25 15:57		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	04/22/25	0824	2784798	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1022	2788234	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	RM4	04/29/25	1506	2786042	3
Arsenic	U	ND	0.00200	0.0100	mg/L	1.00	1					
Barium	U	ND	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0400	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			SC1	04/22/25	1020	2784985	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			BR2	04/29/25	1255	2789240	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00625
Sample ID:	720062011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-INW-01	Project:	GPCC00625
Sample ID:	720062012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-APR-25 14:07		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1024	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1	RM4	04/29/25	2159	2786042	2
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		3.26	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00476	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.0437	0.00100	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2002	2786042	3
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium	J	0.576	0.00335	2.00	mg/L	1.00	5					
Boron		0.820	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		199	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0150	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		110	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Sodium		3360	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1614	2786042	4
Magnesium		421	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1808	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-INW-01	Project:	GPCC00625
Sample ID:	720062012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-MCM-06	Project:	GPCC00625
Sample ID:	720062013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 11:41		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1025	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium	J	0.230	0.000670	2.00	mg/L	1.00	1	RM4	04/29/25	2211	2786042	2
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0360	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0566	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.292	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2006	2786042	3
Arsenic		0.0684	0.0100	0.0250	mg/L	1.00	5					
Boron		0.717	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		214	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		97.0	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Sodium		2830	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1626	2786042	4
Magnesium		386	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1812	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-MCM-06	Project:	GPCC00625
Sample ID:	720062013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-01	Project:	GPCC00625
Sample ID:	720062014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-APR-25 10:39		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1027	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium	J	0.505	0.000670	2.00	mg/L	1.00	1	RM4	04/29/25	2215	2786042	2
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0403	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0348	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.262	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2009	2786042	3
Arsenic	J	0.0215	0.0100	0.0250	mg/L	1.00	5					
Boron		0.854	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		173	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		88.3	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Sodium		2630	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1629	2786042	4
Magnesium		323	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1816	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-01	Project:	GPCC00625
Sample ID:	720062014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-02	Project:	GPCC00625
Sample ID:	720062015	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 09:43		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1028	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium	J	0.646	0.000670	2.00	mg/L	1.00	1	RM4	04/29/25	2218	2786042	2
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		4.02	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0237	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.227	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2013	2786042	3
Arsenic	J	0.0153	0.0100	0.0250	mg/L	1.00	5					
Boron		0.735	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		204	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		95.7	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Sodium		2880	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1633	2786042	4
Magnesium		373	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1819	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-02	Project:	GPCC00625
Sample ID:	720062015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-03	Project:	GPCC00625
Sample ID:	720062016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 12:16		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1030	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium	J	0.275	0.000670	2.00	mg/L	1.00	1	RM4	04/29/25	2222	2786042	2
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0450	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0383	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.111	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2017	2786042	3
Arsenic		0.0510	0.0100	0.0250	mg/L	1.00	5					
Boron		0.773	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		170	0.400	1.00	mg/L	1.00	5					
Molybdenum	J	0.00113	0.00100	0.100	mg/L	1.00	5					
Potassium		93.9	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Sodium		2420	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1637	2786042	4
Magnesium		334	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1823	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-03	Project:	GPCC00625
Sample ID:	720062016	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-01	Project:	GPCC00625
Sample ID:	720062017	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-APR-25 13:55		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1032	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium	J	0.315	0.000670	2.00	mg/L	1.00	1	RM4	04/29/25	2226	2786042	2
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0407	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.169	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2028	2786042	3
Arsenic		0.0425	0.0100	0.0250	mg/L	1.00	5					
Boron		0.802	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		157	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		88.1	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Sodium		2380	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1641	2786042	4
Magnesium		301	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1835	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-01	Project:	GPCC00625
Sample ID:	720062017	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-02	Project:	GPCC00625
Sample ID:	720062018	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 10:25		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1033	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium	J	0.0854	0.000670	2.00	mg/L	1.00	1	RM4	04/29/25	2230	2786042	2
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron	J	0.0724	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0502	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.128	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2032	2786042	3
Arsenic		0.120	0.0100	0.0250	mg/L	1.00	5					
Boron		0.832	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		149	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		78.5	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Sodium		2070	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1645	2786042	4
Magnesium		265	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1838	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-02	Project:	GPCC00625
Sample ID:	720062018	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-03	Project:	GPCC00625
Sample ID:	720062019	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	15-APR-25 11:08		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1035	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00600	mg/L	1.00	1	RM4	04/29/25	2055	2786042	2
Arsenic	J	0.00453	0.00200	0.0100	mg/L	1.00	1					
Barium	J	0.0364	0.000670	2.00	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		7.94	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium		0.0408	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.110	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000270	0.000200	0.100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.0500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.925	0.0260	0.0750	mg/L	1.00	5	RM4	04/29/25	2036	2786042	3
Calcium		93.4	0.400	1.00	mg/L	1.00	5					
Magnesium		154	0.0500	0.150	mg/L	1.00	5					
Potassium		58.1	0.400	1.50	mg/L	1.00	5					
Sodium		1460	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1648	2786042	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-03	Project:	GPCC00625
Sample ID:	720062019	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00625
Sample ID:	720062020	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 12:00		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1040	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium	J	0.604	0.000670	2.00	mg/L	1.00	1	RM4	04/29/25	2234	2786042	2
Beryllium	U	ND	0.000200	0.00400	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.0360	mg/L	1.00	1					
Iron		3.71	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.0150	mg/L	1.00	1					
Lithium	J	0.0230	0.00300	0.0400	mg/L	1.00	1					
Manganese		0.216	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2040	2786042	3
Arsenic	J	0.0148	0.0100	0.0250	mg/L	1.00	5					
Boron		0.711	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		195	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.100	mg/L	1.00	5					
Potassium		90.3	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0500	mg/L	1.00	5					
Sodium		2780	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1652	2786042	4
Magnesium		356	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1846	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: May 1, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00625
Sample ID:	720062020	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: May 1, 2025

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch 2784798											
QC1206077525 720146001 DUP											
Chloride		3.05		3.04	mg/L	0.522		(0%-20%)	CWW	04/23/25	12:19
Fluoride		0.276		0.280	mg/L	1.37	^	(+/-0.100)			
Sulfate		2.07		2.07	mg/L	0.125		(0%-20%)			
QC1206077522 LCS											
Chloride	5.00			4.68	mg/L		93.5	(90%-110%)		04/21/25	15:25
Fluoride	2.50			2.33	mg/L		93.1	(90%-110%)			
Sulfate	10.0			9.53	mg/L		95.3	(90%-110%)			
QC1206077521 MB											
Chloride			U	ND	mg/L					04/21/25	14:53
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1206077526 720146001 PS											
Chloride	5.00	3.05		7.67	mg/L		92.3	(90%-110%)		04/23/25	12:51
Fluoride	2.50	0.276		2.63	mg/L		94.1	(90%-110%)			
Sulfate	10.0	2.07		11.6	mg/L		94.8	(90%-110%)			

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2786042										
QC1206080511 LCS										
Antimony	0.0500			0.0470	mg/L		94	(80%-120%)	RM4	04/29/25 14:58
Arsenic	0.0500			0.0486	mg/L		97.1	(80%-120%)		
Barium	0.0500			0.0483	mg/L		96.6	(80%-120%)		
Beryllium	0.0500			0.0543	mg/L		109	(80%-120%)		
Boron	0.100			0.0989	mg/L		98.9	(80%-120%)		
Cadmium	0.0500			0.0488	mg/L		97.6	(80%-120%)		
Calcium	2.00			1.96	mg/L		97.8	(80%-120%)		
Chromium	0.0500			0.0483	mg/L		96.7	(80%-120%)		
Cobalt	0.0500			0.0473	mg/L		94.6	(80%-120%)		
Iron	2.00			1.88	mg/L		93.9	(80%-120%)		
Lead	0.0500			0.0482	mg/L		96.4	(80%-120%)		
Lithium	0.0500			0.0499	mg/L		99.9	(80%-120%)		
Magnesium	2.00			2.00	mg/L		100	(80%-120%)		
Manganese	0.0500			0.0471	mg/L		94.3	(80%-120%)		

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2786042										
Molybdenum	0.0500			0.0489	mg/L		97.7	(80%-120%)	RM4	04/29/25 14:58
Potassium	2.00			1.96	mg/L		98	(80%-120%)		
Selenium	0.0500			0.0478	mg/L		95.5	(80%-120%)		
Sodium	2.00			2.01	mg/L		101	(80%-120%)		
Thallium	0.0500			0.0475	mg/L		94.9	(80%-120%)		
QC1206080510 MB										
Antimony			U	ND	mg/L					04/29/25 14:55
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2786042										
Iron			U	ND	mg/L				RM4	04/29/25 14:55
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1206080512 720062001 MS										
Antimony	0.0500	U	ND	0.0454	mg/L		90.1	(75%-125%)		04/29/25 19:01
Arsenic	0.0500	U	ND	0.0554	mg/L		99.3	(75%-125%)		
Barium	0.0500	J	0.581	0.612	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND	0.0473	mg/L		94.6	(75%-125%)		

QC Summary

Workorder: **720062**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2786042											
Boron	0.100		0.844		0.904	mg/L		N/A	(75%-125%)	RM4	04/29/25 19:01
Cadmium	0.0500	U	ND		0.0432	mg/L		86.4	(75%-125%)		
Calcium	2.00		207		199	mg/L		N/A	(75%-125%)		
Chromium	0.0500	U	ND		0.0476	mg/L		92.1	(75%-125%)		
Cobalt	0.0500	U	ND		0.0442	mg/L		88.2	(75%-125%)		
Iron	2.00		4.17		5.76	mg/L		79.7	(75%-125%)		
Lead	0.0500	U	ND		0.0427	mg/L		85.3	(75%-125%)		
Lithium	0.0500	U	ND		0.0535	mg/L		96.8	(75%-125%)		
Magnesium	2.00		433		429	mg/L		N/A	(75%-125%)		04/29/25 17:07
Manganese	0.0500		0.0484		0.0911	mg/L		85.5	(75%-125%)		04/29/25 19:01
Molybdenum	0.0500	U	ND		0.0537	mg/L		106	(75%-125%)		
Potassium	2.00		113		112	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0427	mg/L		80.2	(75%-125%)		
Sodium	2.00		3440		3350	mg/L		N/A	(75%-125%)		04/29/25 15:14

QC Summary

Workorder: **720062**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2786042												
Thallium	0.0500	U	ND		0.0433	mg/L		86.5	(75%-125%)	RM4	04/29/25	19:01
QC1206080513 720062001 MSD												
Antimony	0.0500	U	ND		0.0465	mg/L	2.25	92.1	(0%-20%)		04/29/25	19:05
Arsenic	0.0500	U	ND		0.0555	mg/L	0.0811	99.4	(0%-20%)			
Barium	0.0500	J	0.581		0.628	mg/L	2.67	N/A	(0%-20%)			
Beryllium	0.0500	U	ND		0.0465	mg/L	1.75	92.9	(0%-20%)			
Boron	0.100		0.844		0.917	mg/L	1.46	N/A	(0%-20%)			
Cadmium	0.0500	U	ND		0.0433	mg/L	0.266	86.6	(0%-20%)			
Calcium	2.00		207		204	mg/L	2.4	N/A	(0%-20%)			
Chromium	0.0500	U	ND		0.0481	mg/L	1.08	93.1	(0%-20%)			
Cobalt	0.0500	U	ND		0.0440	mg/L	0.295	87.9	(0%-20%)			
Iron	2.00		4.17		5.93	mg/L	2.8	87.8	(0%-20%)			
Lead	0.0500	U	ND		0.0424	mg/L	0.705	84.7	(0%-20%)			
Lithium	0.0500	U	ND		0.0532	mg/L	0.703	96	(0%-20%)			
Magnesium	2.00		433		439	mg/L	2.09	N/A	(0%-20%)		04/29/25	17:11

QC Summary

Workorder: **720062**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2786042											
Manganese	0.0500		0.0484		0.0920	mg/L	0.994	87.4	(0%-20%)	RM4	04/29/25 19:05
Molybdenum	0.0500	U	ND		0.0551	mg/L	2.44	109	(0%-20%)		
Potassium	2.00		113		114	mg/L	1.44	N/A	(0%-20%)		
Selenium	0.0500	U	ND		0.0407	mg/L	4.93	76	(0%-20%)		
Sodium	2.00		3440		3390	mg/L	1.22	N/A	(0%-20%)		04/29/25 15:17
Thallium	0.0500	U	ND		0.0432	mg/L	0.15	86.4	(0%-20%)		04/29/25 19:05
QC1206080515 720062001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		04/29/25 19:12
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium		J	116	J	24.2	ug/L	3.93		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			169		41.8	ug/L	23.8		(0%-20%)		
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Calcium			41500		8340	ug/L	.446		(0%-20%)		
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2786042										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	RM4	04/29/25 19:12
Iron		834		179	ug/L	7.21		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		43300		9000	ug/L	3.92		(0%-20%)		04/29/25 17:19
Manganese		9.67	J	2.12	ug/L	9.36		(0%-20%)		04/29/25 19:12
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Potassium		22600		4480	ug/L	1.03		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		34400		6940	ug/L	.892		(0%-20%)		04/29/25 15:25
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		04/29/25 19:12
Metals Analysis-Mercury										
Batch 2788234										
QC1206085328 720062001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	04/29/25 09:54
QC1206085327 LCS										
Mercury	0.00200			0.00208	mg/L		104	(80%-120%)		04/29/25 09:51

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2788234										
QC1206085326 MB										
Mercury			U	ND	mg/L				JP2	04/29/25 09:50
QC1206085329 720062001 MS										
Mercury	0.00200	U ND		0.00188	mg/L		94.1	(75%-125%)		04/29/25 09:56
QC1206085331 720062001 SDILT										
Mercury		U ND	U	ND	ug/L	N/A		(0%-10%)		04/29/25 10:03
Solids Analysis										
Batch 2784983										
QC1206077927 719622001 DUP										
Total Dissolved Solids		1200		1220	mg/L	1.65		(0%-5%)	SC1	04/22/25 14:04
QC1206077926 LCS										
Total Dissolved Solids	300			292	mg/L		97.3	(95%-105%)		04/22/25 14:04
QC1206077925 MB										
Total Dissolved Solids			U	ND	mg/L					04/22/25 14:04
Batch 2784985										
QC1206077944 719921004 DUP										
Total Dissolved Solids		231		229	mg/L	0.87		(0%-5%)	SC1	04/22/25 10:20
QC1206077943 LCS										
Total Dissolved Solids	300			299	mg/L		99.7	(95%-105%)		04/22/25 10:20
QC1206077942 MB										
Total Dissolved Solids			U	ND	mg/L					04/22/25 10:20

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2789240										
QC1206087793 LCS										
Alkalinity, Total as CaCO3	50.0			53.6	mg/L		107	(90%-110%)	BR2	04/29/25 12:27
QC1206087794 LCS										
Alkalinity, Total as CaCO3	15.0			15.5	mg/L		103	(90%-110%)		04/29/25 12:31
QC1206087795 LCSD										
Alkalinity, Total as CaCO3	50.0			53.8	mg/L	0.372	108	(0%-20%)		04/29/25 12:35
QC1206087796 LCSD										
Alkalinity, Total as CaCO3	15.0			15.5	mg/L	0	103	(0%-20%)		04/29/25 12:35
Batch 2789857										
QC1206089128 719818004 DUP										
Alkalinity, Total as CaCO3		154		154	mg/L	0.0651		(0%-20%)	HH2	04/30/25 10:23
Bicarbonate alkalinity (CaCO3)		154		154	mg/L	0.0651		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1206089132 LCS										
Alkalinity, Total as CaCO3	50.0			52.7	mg/L		105	(90%-110%)		04/30/25 10:20
QC1206089129 719818004 MS										
Alkalinity, Total as CaCO3	50.0	154		198	mg/L		89	(80%-120%)		04/30/25 10:25

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
x	Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 37
Analytical Batch: 2786042

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2786041

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062001	MCM-INW-01
720062002	MCM-MCM-06
720062003	MCM-PT-01
720062004	MCM-PT-02
720062005	MCM-PT-03
720062006	MCM-DR-01
720062007	MCM-DR-02
720062008	MCM-DR-03
720062009	MCM-AP1-FD-01
720062010	MCM-AP1-FB-01
720062011	MCM-AP1-EB-01
720062012	MCM-INW-01
720062013	MCM-MCM-06
720062014	MCM-PT-01
720062015	MCM-PT-02
720062016	MCM-PT-03
720062017	MCM-DR-01
720062018	MCM-DR-02
720062019	MCM-DR-03
720062020	MCM-AP1-FD-01
1206080510	Method Blank (MB)**ICP-MS**
1206080511	Laboratory Control Sample (LCS)
1206080515	720062001(MCM-INW-01L) Serial Dilution (SD)
1206080512	720062001(MCM-INW-01S) Matrix Spike (MS)
1206080513	720062001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 720062001 (MCM-INW-01), 720062002 (MCM-MCM-06), 720062003 (MCM-PT-01), 720062004 (MCM-PT-02), 720062005 (MCM-PT-03), 720062006 (MCM-DR-01), 720062007 (MCM-DR-02), 720062008 (MCM-DR-03), 720062009 (MCM-AP1-FD-01), 720062012 (MCM-INW-01), 720062013 (MCM-MCM-06), 720062014 (MCM-PT-01), 720062015 (MCM-PT-02), 720062016 (MCM-PT-03), 720062017 (MCM-DR-01), 720062018 (MCM-DR-02), 720062019 (MCM-DR-03) and 720062020 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 720062001 (MCM-INW-01), 720062002 (MCM-MCM-06), 720062003 (MCM-PT-01), 720062004 (MCM-PT-02), 720062005 (MCM-PT-03), 720062006 (MCM-DR-01), 720062007 (MCM-DR-02), 720062009 (MCM-AP1-FD-01), 720062012 (MCM-INW-01), 720062013 (MCM-MCM-06), 720062014 (MCM-PT-01), 720062015 (MCM-PT-02), 720062016 (MCM-PT-03), 720062017 (MCM-DR-01), 720062018 (MCM-DR-02) and 720062020 (MCM-AP1-FD-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	720062									
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**012**
Antimony	5X	5X	5X	5X	5X	5X	1X	1X	5X	5X
Arsenic	5X	5X	5X	5X	5X	5X	5X	1X	5X	5X
Barium	5X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Beryllium	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	5X	5X	5X	5X	5X	1X	1X	5X	5X
Calcium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Chromium	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Cobalt	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Iron	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Lead	5X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Lithium	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Magnesium	10X	10X	10X	10X	10X	10X	10X	5X	10X	10X
Manganese	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Molybdenum	5X	5X	5X	5X	5X	5X	1X	1X	5X	5X
Potassium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Selenium	5X	5X	5X	5X	5X	5X	5X	1X	5X	5X
Sodium	100X	100X	100X	100X	100X	100X	100X	100X	100X	100X
Thallium	5X	1X	1X	1X	1X	1X	1X	1X	1X	5X

Analyte	720062							
	013	**014**	**015**	**016**	**017**	**018**	**019**	**020**
Antimony	5X	5X	5X	5X	5X	5X	1X	5X
Arsenic	5X	5X	5X	5X	5X	5X	1X	5X
Boron	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	5X	5X	5X	5X	5X	1X	5X

Calcium	5X	5X	5X	5X	5X	5X	5X	5X
Magnesium	10X	10X	10X	10X	10X	10X	5X	10X
Molybdenum	5X	5X	5X	5X	5X	5X	1X	5X
Potassium	5X	5X	5X	5X	5X	5X	5X	5X
Selenium	5X	5X	5X	5X	5X	5X	1X	5X
Sodium	100X	100X	100X	100X	100X	100X	100X	100X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 42
Analytical Batch: 2788234

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 42
Preparation Batch: 2788233

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062001	MCM-INW-01
720062002	MCM-MCM-06
720062003	MCM-PT-01
720062004	MCM-PT-02
720062005	MCM-PT-03
720062006	MCM-DR-01
720062007	MCM-DR-02
720062008	MCM-DR-03
720062009	MCM-AP1-FD-01
720062010	MCM-AP1-FB-01
720062011	MCM-AP1-EB-01
720062012	MCM-INW-01
720062013	MCM-MCM-06
720062014	MCM-PT-01
720062015	MCM-PT-02
720062016	MCM-PT-03
720062017	MCM-DR-01
720062018	MCM-DR-02
720062019	MCM-DR-03
720062020	MCM-AP1-FD-01
1206085326	Method Blank (MB)**CVAA**
1206085327	Laboratory Control Sample (LCS)
1206085331	720062001(MCM-INW-01L) Serial Dilution (SD)
1206085328	720062001(MCM-INW-01D) Sample Duplicate (DUP)
1206085329	720062001(MCM-INW-01S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 37
Analytical Batch: 2784798

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062001	MCM-INW-01
720062002	MCM-MCM-06
720062003	MCM-PT-01
720062004	MCM-PT-02
720062005	MCM-PT-03
720062006	MCM-DR-01
720062007	MCM-DR-02
720062008	MCM-DR-03
720062009	MCM-AP1-FD-01
720062010	MCM-AP1-FB-01
720062011	MCM-AP1-EB-01
1206077521	Method Blank (MB)
1206077522	Laboratory Control Sample (LCS)
1206077525	720146001(NonSDG) Sample Duplicate (DUP)
1206077526	720146001(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 720062001 (MCM-INW-01), 720062002 (MCM-MCM-06), 720062003 (MCM-PT-01), 720062004 (MCM-PT-02), 720062005 (MCM-PT-03), 720062006 (MCM-DR-01), 720062007 (MCM-DR-02), 720062008 (MCM-DR-03) and 720062009 (MCM-AP1-FD-01) were diluted because target analyte concentrations exceeded the calibration range. Samples 720062001 (MCM-INW-01), 720062002 (MCM-MCM-06), 720062003 (MCM-PT-01), 720062004 (MCM-PT-02), 720062005 (MCM-PT-03), 720062006 (MCM-DR-01), 720062007 (MCM-DR-02), 720062008 (MCM-DR-03) and 720062009 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	720062								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	1000X	500X	1000X	500X	500X	500X	500X	1000X
Fluoride	10X	5X	10X	10X	10X	10X	10X	10X	10X
Sulfate	1000X	500X	500X	500X	500X	500X	500X	500X	500X

Sample Re-analysis
Samples and the associated QC were initially analyzed at a dilution based on historical data. Upon review of the data, they were re-analyzed undiluted. 1206077525 (Non SDG 720146001DUP) and 1206077526 (Non SDG 720146001PS).

Miscellaneous Information

Manual Integrations
Samples 1206077525 (Non SDG 720146001DUP) and 1206077526 (Non SDG 720146001PS) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2784983

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062001	MCM-INW-01
1206077925	Method Blank (MB)
1206077926	Laboratory Control Sample (LCS)
1206077927	719622001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the samples for approximate concentration prior to analysis. 1206077927 (Non SDG 719622001DUP) and 720062001 (MCM-INW-01).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2784985

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062002	MCM-MCM-06
720062003	MCM-PT-01
720062004	MCM-PT-02
720062005	MCM-PT-03
720062006	MCM-DR-01

720062007	MCM-DR-02
720062008	MCM-DR-03
720062009	MCM-AP1-FD-01
720062010	MCM-AP1-FB-01
720062011	MCM-AP1-EB-01
1206077942	Method Blank (MB)
1206077943	Laboratory Control Sample (LCS)
1206077944	719921004(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Consecutive Weight Checks
In order to meet consecutive weight check criteria, weight events must be within 0.0005g of each other. After initial weight checks failed this criteria, the analyst performed two additional weight events. After four weight events, the analyst was unable to get the samples to conform to the criteria. The failure to meet weigh back criteria is attributed to the matrix of the samples. 720062009 (MCM-AP1-FD-01).

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 720062002 (MCM-MCM-06), 720062003 (MCM-PT-01), 720062004 (MCM-PT-02), 720062005 (MCM-PT-03), 720062006 (MCM-DR-01), 720062007 (MCM-DR-02), 720062008 (MCM-DR-03) and 720062009 (MCM-AP1-FD-01).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2789240

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062001	MCM-INW-01
720062003	MCM-PT-01
720062006	MCM-DR-01
720062008	MCM-DR-03
720062010	MCM-AP1-FB-01
720062011	MCM-AP1-EB-01
1206087793	Laboratory Control Sample (LCS)
1206087794	Laboratory Control Sample (LCS)
1206087795	Laboratory Control Sample Duplicate (LCSD)
1206087796	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2789857

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062002	MCM-MCM-06
720062004	MCM-PT-02
720062005	MCM-PT-03
720062007	MCM-DR-02
720062009	MCM-AP1-FD-01
1206089128	719818004(NonSDG) Sample Duplicate (DUP)
1206089129	719818004(NonSDG) Matrix Spike (MS)
1206089132	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

720062

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 34-Week Sampling April 2025 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Natalie Piparo, Jay Siewert (EnSafe) Send Results To: knjurink@southernco.com; npiparo@ensafe.com; tgodwin@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list (NI)	Dissolved Metals* (6020B) - see list (NI)	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)
MCM-INW-01	04/15/25	1407	G	Y*	WG			5	X	X	X	X	X	Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl
MCM-MCM-06	04/16/25	1141	G	Y*	WG			5	X	X	X	X	X	
MCM-PT-01	04/15/25	1039	G	Y*	WG			5	X	X	X	X	X	
MCM-PT-02	04/16/25	0943	G	Y*	WG			5	X	X	X	X	X	
MCM-PT-03	04/16/25	1216	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-01	04/15/25	1355	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-02	04/16/25	1025	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-03	04/15/25	1108	G	Y*	WG			5	X	X	X	X	X	
MCM-AP1-FD-01	04/16/25	—	FD	Y*	WG			5	X	X	X	X	X	
MCM-AP1-FB-01	04/15/25	1547	FB	N	WQ			4	X		X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	EnSafe 4/16/25	1645	1 Fed Ex		
2			2 Cmcmahon	4/17/25	0915
3			3		

TAT Requested: Normal: ___X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20250414**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus 34-Week Sampling April 2025 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Natalie Piparo, Jay Siewert (EnSafe) Send Results To: krjurink@southernco.com; npiparo@ensafe.com; tgodwin@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Total Metals (6020B) - see list	NI Dissolved Metals* (6020B) - see list	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)					<-- Preservative Type (6)
MCM-AP1-EB-01	04/15/25	1557	EB	N	WQ			4	X		X	X	X					Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] EnSafe	4/16/25	1445	[signature]		
2				[signature] cmcmahon	APR 17 2025	0915
3						

TAT Requested: **Normal:** __X__ **Rush:**_____ **Specify:** _____ **(Subject to Surcharge**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20250414**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

****Dissolved metals are the only Field Filterd Samples****

Plant McManus Performance Monitoring Sampling Week 34							
Task Code: MCM-CCR-CA-20250414							
Location Code/Label	Sample Code	Matrix Code	Total Metals (6020B) [As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl]	Dissolved Metals (6020B) [As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl]	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)
MCM-INW-01	MCM-INW-01-WG-	WG	X	X	X	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X	X	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X	X	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X	X	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X	X	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X	X	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X	X	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X	X	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X	X	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X		X	X	X
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X		X	X	X
Extra 1			X	X	X	X	X
Extra 2			X	X	X	X	X

** Dissloved samples to be field filtered

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC | SDG/AR/COC/Work Order: 720062 | GEL PM: AAP

Received By: CLM | Date Received at GEL: 4/7/25

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR5-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
287648285286	0°				
287604822469	0°				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): ___ CPM / mR/Hr. Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials SH Date 4/10/25

☐ Continuation Form Required when selected

GL-CHL-SR-001 Rev 8

List of current GEL Certifications as of 01 May 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company

IT^2 FILE # 250035

2025-03-10

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3,
Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

Reported: 2025-03-10

FedEx: 791599417293

ISOTOPE TRACER TECHNOLOGIES INC

Client: Southern Company
Address: 241 Ralph McGill Blvd NE
Atlanta, GA 30308
Att.: Kristen Jurinko
E-mail: knjurink@southernco.com
E-mail: natalie.piparo@resoluteenv.com
E-mail: Kathryn.Farries@arcadis.com
Phone: (404) 506-7116

File Number: 250035
Project #:
PO:

#	Sample ID	Sample Collection		Sample #	$\delta^{18}O$	Aver	Stdv	$\delta^{2}H$	Aver	Stdv	Sample Size
		Date	Time		H_2O	VSMOW		H_2O	VSMOW		
1	MCM-INW-01	2025-01-29	14:32	175836	X	3.32	0.05	X	16.3	0.2	1x50mL
2	MCM-MCM-06	2025-01-29	14:48	175837	X	0.89	0.07	X	6.9	0.1	1x50mL
3	MCM-PT-01	2025-01-29	11:10	175838	X	0.77	0.03	X	6.4	0.1	1x50mL
4	MCM-PT-02	2025-01-30	11:35	175839	X	0.43	0.02	X	4.8	0.1	1x50mL
5	MCM-PT-03	2025-01-30	9:35	175840	X	0.84	0.02	X	7.8	0.2	1x50mL
6	MCM-DR-01	2025-01-30	9:44	175841	X	0.83	0.02	X	6.4	0.1	1x50mL
7	MCM-DR-02	2025-01-30	10:55	175842	X	0.99	0.03	X	7.0	0.1	1x50mL
8	MCM-DR-03	2025-01-29	10:54	175843	X	0.84	0.04	X	25.3	0.3	1x50mL
9	MCM-AP1-FD-01	2025-01-29	n/a	175844	X	0.87	0.08	X	26.7	0.3	1x50mL

^{18}O & ^{2}H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).
Standard Used:
IT2-12E / IT2-13E / IT2-14D Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)
Typical Standard deviation:
(^{18}O ±0.1‰) (^{2}H ± 1‰)

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3, Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

ISOTOPE TRACER TECHNOLOGIES INC

Isotope Analyses for: Southern Company

IT^2 FILE # 250112

2025-05-15

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
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Reported: 2025-05-15

FedEx: 791707993488

ISOTOPE TRACER TECHNOLOGIES INC

Client: Southern Company
Address: 241 Ralph McGill Blvd NE Atlanta, GA 30308
Att.: Kristen Jurinko
E-mail: knjurink@southernco.com
npiparo@ensafe.com
Kathryn.Farris@arcadis.com
Phone: 4045067116

File Number: 250112
Project #: Plant McManus 34-Week Sampling April 2025
PO:

#	Sample ID	Sample Collection		Sample #	δ^2H	Aver	Stdv	Sample Size
		Date	Time		H_2O	VSMOW		
1	MCM-INW-01	2025-04-15	14:07	177026	x	8.0	0.1	1x40mL Plastic
2	MCM-MCM-06	2025-04-16	11:41	177027	x	3.1	0.4	1x40mL Plastic
3	MCM-PT-01	2025-04-15	10:39	177028	x	3.1	0.2	1x40mL Plastic
4	MCM-PT-02	2025-04-16	9:43	177029	x	2.3	0.4	1x40mL Plastic
5	MCM-PT-03	2025-04-16	12:16	177030	x	4.8	0.3	1x40mL Plastic
6	MCM-DR-01	2025-04-15	13:55	177031	x	6.0	0.4	1x40mL Plastic
7	MCM-DR-02	2025-04-16	10:25	177032	x	6.1	0.2	1x40mL Plastic
8	MCM-DR-03	2025-04-15	11:08	177033	x	20.0	0.5	1x40mL Plastic
9	MCM-AP1-FD-01	2025-04-16	N/A	177034	x	3.7	0.5	1x40mL Plastic

^2H (CRDS)

Instrument Used: Cavity Ring Down Spectroscopy (CRDS)
CRDS (Model L2130-i) (Picarro, California, USA).
Standard Used:
IT2-12E / IT2-13E / IT2-14D Calibrated with IAEA Standards (V-SMOW, SLAP, and GISP)
Typical Standard deviation:
($^2H \pm 1‰$)

Approved by:

Orfan Shouakar-Stash, PhD
Director
Isotope Tracer Technologies Inc.
608 Weber St. North Unit 3, Waterloo, ON, N2V 1K4
Tel: 519-886-5555 | Fax: 519-886-5575
Email: orfan@it2isotopes.com
Website: www.it2isotopes.com

ISOTOPE TRACER TECHNOLOGIES INC

CHAIN OF CUSTODY / ANALYTICAL SERVICES REQUEST FORM

Note: all TAT Quoted material is in business days which exclude statutory holidays and weekends.

Specify date required	Service Requested	
	(regular)	
ASAP	*(Rush)*	

COMPANY NAME	Southern Company
OFFICE ADDRESS	241 Ralph McGill Blvd NE Atlanta, GA 30308
PROJECT MANAGER: Kristen Jurinko	
PROJECT NAME Plant McManus 34-Week Sampling April 2025	
PHONE # (404)506-7116	FAX #
	PO #

REPORT FORMAT/DISTRIBUTION

EMAIL __X__ FAX _____ BOTH _____
SELECT: PDF __ DIGITAL __ BOTH _X_
EMAIL 1: knjurink@southernco.com
EMAIL 2: npiparo@ensafe.com
EMAIL 3: Kathryn.Farris@arcadis.com

ANALYSIS REQUEST

PLEASE INDICATE FILTERED, PRESERVED OR BOTH <----- (F, P, F/P)

SUBMISSION #:

ENTERED BY:

DATE/TIME ENTERED:

BIN #:

SAMPLING INFORMATION

Sample Date/Time		TYPE		MATRIX													
Date (YYYY-MM-DD)	Time (24hr) (hh:mm)	COMP	GRAB	WATER	SOIL	OTHER	SAMPLE DESCRIPTION TO APPEAR ON REPORT	NUMBER OF CONTAINERS	Deuterium									COMMENTS	LAB ID
2025-04-15	1407		X	X			MCM-INW-01	1	X										
2025-04-16	1141		X	X			MCM-MCM-06	1	X										
2025-04-15	1039		X	X			MCM-PT-01	1	X										
2025-04-16	0943		X	X			MCM-PT-02	1	X										
2025-04-16	1210		X	X			MCM-PT-03	1	X										
2025-04-15	1355		X	X			MCM-DR-01	1	X										
2025-04-16	1025		X	X			MCM-DR-02	1	X										
2025-04-15	1046		X	X			MCM-DR-03	1	X										
2025-04-16	—		X	X			MCM-AP1-FD-01	1	X										

SPECIAL INSTRUCTIONS/COMMENTS

Task Code: MCM-CCR-CA-20250414

THE QUESTIONS BELOW MUST BE ANSWERED FORWATER SAMPLES (CHECK Yes OR No)

Are any samples taken from a regulated DW System? Yes ___ No ___

If yes, an authorized drinking water COC MUST be used for this submission.

Is the water sampled intended to be potable for human consumption? Yes ___ No

SAMPLE CONDITION

___ FROZEN
___ COLD
___ COOLING INITIATED
___ AMBIENT

Observations

SAMPLED BY: Natalie Piparo, Jay Siewert	DATE & TIME	RECEIVED BY: FedEx	DATE & TIME
RELINQUISHED BY:	DATE & TIME 4/16/25 1645	RECEIVED AT LAB BY:	DATE & TIME 2025-04-21@10:30

1. TAT may vary dependent on complexity of analysis and lab workload at time of submission. Please contact the lab to confirm TATs.

2. Any known or suspected hazards relating to a sample must be noted on the chain of custody in comments section.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 2/18/2025 6:02:05 PM

JOB DESCRIPTION

Plant McManus Performance Monitoring 23 Week Jan

JOB NUMBER

680-261394-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

Eurofins Savannah

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
2/18/2025 6:02:05 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Sample Summary

Client: Southern Company
Job ID: 680-261394-1
Project/Site: Plant McManus Performance Monitoring 23 Week Jan

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-261394-1	MCM-MCM-06	Water	01/29/25 14:48	01/31/25 10:09
680-261394-2	MCM-INW-01	Water	01/29/25 14:32	01/31/25 10:09
680-261394-3	MCM-PT-01	Water	01/29/25 11:10	01/31/25 10:09
680-261394-4	MCM-PT-02	Water	01/30/25 11:35	01/31/25 10:09
680-261394-5	MCM-PT-03	Water	01/30/25 09:35	01/31/25 10:09
680-261394-6	MCM-DR-01	Water	01/30/25 09:44	01/31/25 10:09
680-261394-7	MCM-DR-02	Water	01/30/25 10:55	01/31/25 10:09
680-261394-8	MCM-DR-03	Water	01/29/25 10:54	01/31/25 10:09
680-261394-9	MCM-AP1-FD-01	Water	01/29/25 00:00	01/31/25 10:09

Job ID: 680-261394-1 Eurofins Savannah

Job Narrative
680-261394-1

Receipt
The samples were received on 1/31/2025 10:09 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 2.8°C.

Subcontract Work
Method Metals Speciation: This method was subcontracted to Brooks Applied Labs LLC. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

BROOKS APPLIED LABS
13751 Lake City Way NE, Ste 108, Seattle, WA 98125 • USA • T:206-632-6206 • info@brooksapplied.com

February 18, 2025

Eurofins Savannah
ATTN: David Fuller
5102 LaRoche Avenue
Savannah, GA 31404
david.fuller@et.eurofinsus.com

RE: Project EUR-SV2201 Client Project: Job#680-261394-1

Dear David Fuller,

On February 4, 2025, Brooks Applied Labs (BAL) received nine (9) water samples at a temperature of 3.1°C. The samples were logged-in for the analyses of arsenic speciation [As(III), As(V), DMA, MMA, and unknown As species] according to the chain-of-custody form. All samples were received and stored according to BAL SOPs and EPA methodology.

All samples were field filtered.

Arsenic Speciation Quantitation by IC-ICP-CRC-MS
Arsenic speciation was performed by ion chromatography inductively coupled plasma collision reaction cell mass spectrometry (IC-ICP-CRC-MS). Arsenic species are first chromatographically separated on an ion exchange column and then quantified using inductively coupled plasma collision reaction cell mass spectrometry (ICP-CRC-MS). For more information on this determinative technique, please visit the Interference Reduction Technology section on our website.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (**N/C**).

It should be noted that all Brooks Applied Labs, LLC methods, standard operating procedures, inventions, ideas, processes, improvements, designs, and techniques included or referred to therein, must be considered and treated as Proprietary Information, protected by the Washington State Trade Secret Act, RCW 19.108 et seq., and other laws. All Proprietary Information, written or implied, will not be distributed, copied, or altered in any fashion without prior written consent from Brooks Applied Labs, LLC. All Proprietary Information (including originals, copies, summaries, or other reproductions thereof) shall remain the property of Brooks Applied Labs, LLC at all times and must be returned upon demand. Furthermore, products presented in this document may be protected by Federal Patent laws and infringement will be subject to prosecution in accordance with Title 35 US Code 271.

The results were not method blank corrected, as described in the calculations section of the relevant BAL SOP(s), and were evaluated using reporting limits adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

All data was reported without further qualification and all other associated quality control sample results met the acceptance criteria.

BAL verifies that the reported results of all analyses for which the laboratory is accredited meet the requirements of the accrediting body, unless otherwise noted in the report narrative. For more information regarding accreditations please see the *Report Information* and *Batch Summary* pages. This report must be used in its entirety for interpretation of results.

Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Amy Goodall
Project Manager
Brooks Applied Labs
amy@brooksapplied.com

Report Information

General Disclaimers

Test results are based solely upon the sample submitted to Brooks Applied Labs in the condition it was received . This report shall not be reproduced or copied, except in full, without written approval of the laboratory. Brooks Applied Labs is not responsible for the consequences arising from the use of a partial report.

Laboratory Accreditation

BAL maintains accreditation with various state and national agencies for select test methods. For a current list of BAL accreditations, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. The reported analyte/matrix/method combination shall be considered outside BAL's scopes of accreditation unless otherwise identified as ISO, TNI, or ISO,TNI in the tables. It is the responsibility of the client to verify whether a specific accreditation is required for the intended data use.

ISO: ISO/IEC 17025:2017 accredited test method. Issued by ANSI National Accreditation Board (ANAB), #ADE-1447.02

TNI: NELAP accredited test method. Issued by the State of Florida Department of Health, #E87982.

ISO,TNI: Test method is accredited under both the ISO/IEC 17025:2017 and NELAP accreditations referenced above.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	**MS**	matrix spike
BAL	Brooks Applied Labs	**MSD**	matrix spike duplicate
BLK	method blank	**ND**	non-detect
BS	blank spike	**NR**	non-reportable
CAL	calibration standard	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
CCV	continuing calibration verification	**REC**	percent recovery
COC	chain of custody record	**RPD**	relative percent difference
D	dissolved fraction	**SCV**	secondary calibration verification
DUP	duplicate	**SOP**	standard operating procedure
IBL	instrument blank	**SRM**	reference material
ICV	initial calibration verification	**T**	total fraction
MDL	method detection limit	**TR**	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

13751 Lake City Way NE, Suite 108, Seattle, WA 98125 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
MCM-MCM-06 (680-261394-1)	2502018-01	Water	Sample	01/29/2025	02/04/2025
MCM-INW-01 (680-261394-2)	2502018-02	Water	Sample	01/29/2025	02/04/2025
MCM-PT-01 (680-261394-3)	2502018-03	Water	Sample	01/29/2025	02/04/2025
MCM-PT-02 (680-261394-4)	2502018-04	Water	Sample	01/30/2025	02/04/2025
MCM-PT-03 (680-261394-5)	2502018-05	Water	Sample	01/30/2025	02/04/2025
MCM-DR-01 (680-261394-6)	2502018-06	Water	Sample	01/30/2025	02/04/2025
MCM-DR-02 (680-261394-7)	2502018-07	Water	Sample	01/30/2025	02/04/2025
MCM-DR-03 (680-261394-8)	2502018-08	Water	Sample	01/29/2025	02/04/2025
MCM-AP1-FD-01 (680-261394-9)	2502018-09	Water	Field Duplicate	01/29/2025	02/04/2025

Batch Summary

Analyte	Lab Matrix	Method	Accred.	Prepared	Analyzed	Batch	Sequence
As(III)	Water	SOP BAL-4100	ISO,TNI	02/11/25	02/11/25	B250265	S250132
As(V)	Water	SOP BAL-4100	ISO,TNI	02/11/25	02/11/25	B250265	S250132
DMAs	Water	SOP BAL-4100	ISO	02/11/25	02/11/25	B250265	S250132
MMAs	Water	SOP BAL-4100	ISO	02/11/25	02/11/25	B250265	S250132
Unk As Sp	Water	SOP BAL-4100		02/11/25	02/11/25	B250265	S250132

13751 Lake City Way NE, Suite 108, Seattle, WA 98125 · P(206) 632-6206 · F(206) 632-6017 · info@brooksapplied.com · www.brooksapplied.com

Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MCM-MCM-06 (680-261394-1)										
2502018-01	As(III)	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B250265	S250132
2502018-01	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B250265	S250132
2502018-01	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B250265	S250132
2502018-01	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B250265	S250132
2502018-01	Unk As Sp	Water	D	102		1.00	4.20	µg/L	B250265	S250132
MCM-INW-01 (680-261394-2)										
2502018-02	As(III)	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B250265	S250132
2502018-02	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B250265	S250132
2502018-02	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B250265	S250132
2502018-02	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B250265	S250132
2502018-02	Unk As Sp	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B250265	S250132
MCM-PT-01 (680-261394-3)										
2502018-03	As(III)	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B250265	S250132
2502018-03	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B250265	S250132
2502018-03	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B250265	S250132
2502018-03	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B250265	S250132
2502018-03	Unk As Sp	Water	D	17.4		1.00	4.20	µg/L	B250265	S250132
MCM-PT-02 (680-261394-4)										
2502018-04	As(III)	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B250265	S250132
2502018-04	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B250265	S250132
2502018-04	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B250265	S250132
2502018-04	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B250265	S250132
2502018-04	Unk As Sp	Water	D	5.52		1.00	4.20	µg/L	B250265	S250132
MCM-PT-03 (680-261394-5)										
2502018-05	As(III)	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B250265	S250132
2502018-05	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B250265	S250132
2502018-05	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B250265	S250132
2502018-05	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B250265	S250132
2502018-05	Unk As Sp	Water	D	29.6		1.00	4.20	µg/L	B250265	S250132

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Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MCM-DR-01 (680-261394-6)										
2502018-06	As(III)	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B250265	S250132
2502018-06	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B250265	S250132
2502018-06	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B250265	S250132
2502018-06	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B250265	S250132
2502018-06	Unk As Sp	Water	D	45.9		1.00	4.20	µg/L	B250265	S250132
MCM-DR-02 (680-261394-7)										
2502018-07	As(III)	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B250265	S250132
2502018-07	As(V)	Water	D	≤ 2.00	U	2.00	4.20	µg/L	B250265	S250132
2502018-07	DMAs	Water	D	≤ 1.00	U	1.00	4.20	µg/L	B250265	S250132
2502018-07	MMAs	Water	D	≤ 0.800	U	0.800	4.20	µg/L	B250265	S250132
2502018-07	Unk As Sp	Water	D	102		1.00	4.20	µg/L	B250265	S250132
MCM-DR-03 (680-261394-8)										
2502018-08	As(III)	Water	D	0.453	J	0.200	1.05	µg/L	B250265	S250132
2502018-08	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B250265	S250132
2502018-08	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B250265	S250132
2502018-08	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B250265	S250132
2502018-08	Unk As Sp	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B250265	S250132
MCM-AP1-FD-01 (680-261394-9)										
2502018-09	As(III)	Water	D	0.464	J	0.200	1.05	µg/L	B250265	S250132
2502018-09	As(V)	Water	D	≤ 0.500	U	0.500	1.05	µg/L	B250265	S250132
2502018-09	DMAs	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B250265	S250132
2502018-09	MMAs	Water	D	≤ 0.200	U	0.200	1.05	µg/L	B250265	S250132
2502018-09	Unk As Sp	Water	D	≤ 0.250	U	0.250	1.05	µg/L	B250265	S250132

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Accuracy & Precision Summary

Batch: B250265
Lab Matrix: Water
Method: SOP BAL-4100

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B250265-BS1	**Blank Spike, (2331029)**						
	As(III)		5.000	5.464	µg/L	109% 75-125	
	As(V)		5.000	4.660	µg/L	93% 75-125	
B250265-BS2	**Blank Spike, (2507046)**						
	DMAs		5.000	4.979	µg/L	100% 75-125	
	MMAs		4.400	4.676	µg/L	106% 75-125	
B250265-DUP2	**Duplicate, (2502018-09)**						
	As(III)	0.464		0.441	µg/L		5% 25
	As(V)	ND		ND	µg/L		N/C 25
	DMAs	ND		ND	µg/L		N/C 25
	MMAs	ND		ND	µg/L		N/C 25
	Unk As Sp	ND		ND	µg/L		N/C 25
B250265-MS2	**Matrix Spike, (2502018-09)**						
	As(III)	0.464	52.25	58.13	µg/L	110% 75-125	
	As(V)	ND	48.55	54.94	µg/L	113% 75-125	
	DMAs	ND	55.55	61.75	µg/L	111% 75-125	
	MMAs	ND	50.00	55.71	µg/L	111% 75-125	
B250265-MSD2	**Matrix Spike Duplicate, (2502018-09)**						
	As(III)	0.464	52.25	59.00	µg/L	112% 75-125	1% 25
	As(V)	ND	48.55	52.71	µg/L	109% 75-125	4% 25
	DMAs	ND	55.55	60.75	µg/L	109% 75-125	2% 25
	MMAs	ND	50.00	55.16	µg/L	110% 75-125	1% 25

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Project ID: EUR-SV2201
PM: Amy Goodall

Client PM: David Fuller
Client Project: 680-261394-1

Method Blanks & Reporting Limits

Batch: B250265
Matrix: Water
Method: SOP BAL-4100
Analyte: As(III)

Sample	Result	Units
B250265-BLK1	0.00007	µg/L
B250265-BLK2	0.0002	µg/L
B250265-BLK3	0.0002	µg/L
B250265-BLK4	-0.00009	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.004
MRL: 0.021

Analyte: As(V)

Sample	Result	Units
B250265-BLK1	0.001	µg/L
B250265-BLK2	0.0003	µg/L
B250265-BLK3	0.0009	µg/L
B250265-BLK4	-0.0002	µg/L

Average: 0.001
Limit: 0.021

MDL: 0.010
MRL: 0.021

Analyte: DMAs

Sample	Result	Units
B250265-BLK1	0.00	µg/L
B250265-BLK2	0.00	µg/L
B250265-BLK3	0.00	µg/L
B250265-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.005
MRL: 0.021

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Method Blanks & Reporting Limits

Analyte: MMAs

Sample	Result	Units
B250265-BLK1	0.00	µg/L
B250265-BLK2	0.00	µg/L
B250265-BLK3	0.00	µg/L
B250265-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.004
MRL: 0.021

Analyte: Unk As Sp

Sample	Result	Units
B250265-BLK1	0.00	µg/L
B250265-BLK2	0.00	µg/L
B250265-BLK3	0.00	µg/L
B250265-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.005
MRL: 0.021

Sample Containers

Lab ID: 2502018-01 **Report Matrix:** Water **Collected:** 01/29/2025
Sample: MCM-MCM-06 (680-261394-1) **Sample Type:** Sample **Received:** 02/04/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0106	EDTA (vial)	n/a	n/a	Cooler - 2502018
B	XTRA_VOL	10 mL	24-0106	EDTA (vial)	n/a	n/a	Cooler - 2502018

Lab ID: 2502018-02 **Report Matrix:** Water **Collected:** 01/29/2025
Sample: MCM-INW-01 (680-261394-2) **Sample Type:** Sample **Received:** 02/04/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0106	EDTA (vial)	n/a	n/a	Cooler - 2502018
B	XTRA_VOL	10 mL	24-0106	EDTA (vial)	n/a	n/a	Cooler - 2502018

Lab ID: 2502018-03 **Report Matrix:** Water **Collected:** 01/29/2025
Sample: MCM-PT-01 (680-261394-3) **Sample Type:** Sample **Received:** 02/04/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0106	EDTA (vial)	n/a	n/a	Cooler - 2502018
B	XTRA_VOL	10 mL	24-0106	EDTA (vial)	n/a	n/a	Cooler - 2502018

Lab ID: 2502018-04 **Report Matrix:** Water **Collected:** 01/30/2025
Sample: MCM-PT-02 (680-261394-4) **Sample Type:** Sample **Received:** 02/04/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0106	EDTA (vial)	n/a	n/a	Cooler - 2502018
B	XTRA_VOL	10 mL	24-0106	EDTA (vial)	n/a	n/a	Cooler - 2502018

Sample Containers

Lab ID: 2502018-05 **Report Matrix:** Water **Collected:** 01/30/2025
Sample: MCM-PT-03 (680-261394-5) **Sample Type:** Sample **Received:** 02/04/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0106	EDTA (vial)	n/a	n/a	Cooler - 2502018
B	XTRA_VOL	10 mL	24-0106	EDTA (vial)	n/a	n/a	Cooler - 2502018

Lab ID: 2502018-06 **Report Matrix:** Water **Collected:** 01/30/2025
Sample: MCM-DR-01 (680-261394-6) **Sample Type:** Sample **Received:** 02/04/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0106	EDTA (vial)	n/a	n/a	Cooler - 2502018
B	XTRA_VOL	10 mL	24-0106	EDTA (vial)	n/a	n/a	Cooler - 2502018

Lab ID: 2502018-07 **Report Matrix:** Water **Collected:** 01/30/2025
Sample: MCM-DR-02 (680-261394-7) **Sample Type:** Sample **Received:** 02/04/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0106	EDTA (vial)	n/a	n/a	Cooler - 2502018
B	XTRA_VOL	10 mL	24-0106	EDTA (vial)	n/a	n/a	Cooler - 2502018

Lab ID: 2502018-08 **Report Matrix:** Water **Collected:** 01/29/2025
Sample: MCM-DR-03 (680-261394-8) **Sample Type:** Sample **Received:** 02/04/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0106	EDTA (vial)	n/a	n/a	Cooler - 2502018
B	XTRA_VOL	10 mL	24-0106	EDTA (vial)	n/a	n/a	Cooler - 2502018

Project ID: EUR-SV2201
PM: Amy Goodall

Client PM: David Fuller
Client Project: 680-261394-1

Sample Containers

Lab ID: 2502018-09
Sample: MCM-AP1-FD-01 (680-261394-9)
Report Matrix: Water
Sample Type: Field Duplicate
Collected: 01/29/2025
Received: 02/04/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0106	EDTA (vial)	n/a	n/a	Cooler - 2502018
B	XTRA_VOL	10 mL	24-0106	EDTA (vial)	n/a	n/a	Cooler - 2502018

Shipping Containers

Cooler - 2502018

Received: February 4, 2025 10:09
Tracking No: 4260 4477 3520 via FedEx
Coolant Type: Ice
Temperature: 3.1 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: R-IR-3

Custody seals present? No
Custody seals intact? No
COC present? Yes

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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: 680-793405.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 1
Company: Brooks Applied Labs LLC		Accreditations Required (See note): State - Georgia		Job #: 680-261394-1
Address: 13751 Lake City Way NE, Suite 108,	Due Date Requested: 2/21/2025			
City: Seattle	TAT Requested (days): N/A			
State, Zip: WA, 98125				
Phone: N/A	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Plant McManus Performance Monitoring 23 Week Jan	Project #: 68027841			
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)	SUB (Metals Speciation)/ Metals Speciation	Total Number of containers	Special Instructions/Note:
			Preservation Code						
MCM-MCM-06 (680-261394-1)	1/29/25	14:48 Eastern	G	Water			X	2	
MCM-INW-01 (680-261394-2)	1/29/25	14:32 Eastern	G	Water			X	2	
MCM-PT-01 (680-261394-3)	1/29/25	11:10 Eastern	G	Water			X	2	
MCM-PT-02 (680-261394-4)	1/30/25	11:35 Eastern	G	Water			X	2	
MCM-PT-03 (680-261394-5)	1/30/25	09:35 Eastern	G	Water			X	2	
MCM-DR-01 (680-261394-6)	1/30/25	09:44 Eastern	G	Water			X	2	
MCM-DR-02 (680-261394-7)	1/30/25	10:55 Eastern	G	Water			X	2	
MCM-DR-03 (680-261394-8)	1/29/25	10:54 Eastern	G	Water			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: 1009	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		2/3/25 1600		LPG	2/4/25 1009	BAL
2	Relinquished by:	Date/Time:	Company	Received by:	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

BAL Report 2502018

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fuller, David	Carrier Tracking No(s): N/A	COC No: 680-793406.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 1
Company: Brooks Applied Labs LLC		Accreditations Required (See note): State - Georgia		Job #: 680-261394-1
Address: 13751 Lake City Way NE, Suite 108,	Due Date Requested: 2/21/2025			
City: Seattle	TAT Requested (days): N/A			
State, Zip: WA, 98125				
Phone: N/A	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Plant McManus Performance Monitoring 23 Week Jan	Project #: 68027841			
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)	SUB (Metals Speciation)/ Metals Speciation	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MCM-AP1-FD-01 (680-261394-9)	1/29/25	Eastern	G	Water			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: 2/3/25 1600	Company	Received by: UPG	Date/Time: 2/4/25/1609	Company BAL	
Relinquished by:	Date/Time:	Company	Received by:	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

Chain-of-Custody Form

BROOKS APPLIED LABS

Ship samples to:
13751 Lake City Way NE, Suite 108
Seattle, WA 98125

For BAL use only
Received by: _____ *Date:* _____
Work Order ID: _____ *Time:* _____
Project ID: _____

Client: Southern Company
Contact: David Fuller
Client Project ID: _____
Samples Collected By: Ensafe / Natalie Piparo / Jay Siewert

PO Number: _____
Phone: (470) 895-0653
Email: npiparo@ensafe.com

Mailing Address: 1003 Weatherstone Parkway Suite 320 Woodstock GA 30188
Email Receipt Confirmation? (Yes/No)
BAL PM: _____

Requested TAT (business days)
- ☐ 20 (standard)
- ☐ 15*
- ☐ 10*
- ☐ 5*
- ☐ Other ____

*Surcharges may apply to expedited TATs

	Sample ID	Collection: Date	Collection: Time	Client Sample Info: Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO_3/Other	BAL Analyses Required: Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) (inOrg/MMA/DMA)	Se Species (specify) Se(IV), Se(VI), SeCN, Uknown	Filtration	Other (specify)	Other (specify)	Comments: Specify Here
1	MCM-MCM-06	01/29/25	1448	WG	2	Y					X					
2	MCM-INW-01	01/29/25	1432	WG	2	Y					X					
3	MCM-PT-01	01/29/25	1110	WG	2	Y					X					
4	MCM-PT-02	01/30/25	1135	WG	2	Y					X					
5	MCM-PT-03	01/30/25	0935	WG	2	Y					X					
6	MCM-DR-01	01/30/25	0944	WG	2	Y					X					
7	MCM-DR-02	01/30/25	1055	WG	2	Y					X					
8	MCM-DR-03	01/29/25	1054	WG	2	Y					X					
9	MCM-API-FD-01	01/29/25	—	WG	2	Y					X					
10																
	Trip Blank															

680-261394 Chain of Custody

Relinquished By:	Date: 01/30/25	Time: 1515	Relinquished By:	Date:	Time:
Received By: Fed Ex	Date:	Time:	Total Number of Packages:		

Page 1 of 1

List Hazardous Contaminants:

TA 1-31-25 1009 2.8/2.8

samples@brooksapplied.com | brooksapplied.com

Plant McManus Performance Monitoring Sampling Week 23				
Task Code MCM-CCR-CA-20250127				
Location Code/Label	**Sample Code**	**Matrix Code**	**Sulfide[3] (SM4500)**	**As Speciation[1] (IC-ICP-MS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X	
Extra 1			X	
Extra 2			X	

[1]As speciation to be analyzed by Brooks through Eurofins

[3]Sulfide samples to be analyzed by Eurofins

680-261394 Field Sheet

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-261394-1

Login Number: 261394

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 4/29/2025 8:55:54 PM

JOB DESCRIPTION

Plant McManus - Arsenic Speciation Week 34

JOB NUMBER

680-263583-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

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.

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Authorization

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Table of Contents

Cover Page 1
Table of Contents 3
Sample Summary 4
Case Narrative 5
Subcontract Data 6
Chain of Custody 19
Receipt Checklists 21

Sample Summary

Client: Southern Company
Job ID: 680-263583-1
Project/Site: Plant McManus - Arsenic Speciation Week 34

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-263583-1	MCM-INW-01	Water	04/15/25 14:07	04/17/25 10:25
680-263583-2	MCM-MCM-06	Water	04/15/25 11:41	04/17/25 10:25
680-263583-3	MCM-PT-01	Water	04/15/25 10:39	04/17/25 10:25
680-263583-4	MCM-PT-02	Water	04/16/25 09:43	04/17/25 10:25
680-263583-5	MCM-PT-03	Water	04/16/25 12:16	04/17/25 10:25
680-263583-6	MCM-DR-01	Water	04/15/25 13:55	04/17/25 10:25
680-263583-7	MCM-DR-02	Water	04/16/25 10:25	04/17/25 10:25
680-263583-8	MCM-DR-03	Water	04/15/25 11:08	04/17/25 10:25
680-263583-9	MCM-AP1-FD-01	Water	04/16/25 00:00	04/17/25 10:25

Job ID: 680-263583-1 Eurofins Savannah

Job Narrative
680-263583-1

Receipt
The samples were received on 4/17/2025 10:25 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 4.2°C.

Subcontract Work
Method Metals Speciation: This method was subcontracted to Brooks Applied Labs LLC. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

BROOKS APPLIED LABS
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April 29, 2025

Eurofins Savannah
ATTN: David Fuller
5102 LaRoche Avenue
Savannah, GA 31404
david.fuller@et.eurofinsus.com

RE: Project EUR-SV2201 Client Project: Job#680-263583-1

Dear David Fuller,

On April 18, 2025, Brooks Applied Labs (BAL) received nine (9) water samples at a temperature of 5.6°C. The samples were logged-in for the analyses of arsenic speciation [As(III), As(V), DMA, MMA, and unknown As species] according to the chain-of-custody form. All samples were received and stored according to BAL SOPs and EPA methodology.

All samples were field filtered.

Arsenic Speciation Quantitation by IC-ICP-CRC-MS
Arsenic speciation was performed by ion chromatography inductively coupled plasma collision reaction cell mass spectrometry (IC-ICP-CRC-MS). Arsenic species are first chromatographically separated on an ion exchange column and then quantified using inductively coupled plasma collision reaction cell mass spectrometry (ICP-CRC-MS). For more information on this determinative technique, please visit the Interference Reduction Technology section on our website.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (**N/C**).

The duplicate (DUP) B250876-DUP1 performed on sample 2504285-09 had a relative percent difference (RPD) for As(III) that was above the acceptance limit (26%). The DUP result and the native result met secondary criteria (within 5x the MRL and within the MRL of each other) and no further action was required.

It should be noted that all Brooks Applied Labs, LLC methods, standard operating procedures, inventions, ideas, processes, improvements, designs, and techniques included or referred to therein, must be considered and treated as Proprietary Information, protected by the Washington State Trade Secret Act, RCW 19.108 et seq., and other laws. All Proprietary Information, written or implied, will not be distributed, copied, or altered in any fashion without prior written consent from Brooks Applied Labs, LLC. All Proprietary Information (including originals, copies, summaries, or other reproductions thereof) shall remain the property of Brooks Applied Labs, LLC at all times and must be returned upon demand. Furthermore, products presented in this document may be protected by Federal Patent laws and infringement will be subject to prosecution in accordance with Title 35 US Code 271.

The results were not method blank corrected, as described in the calculations section of the relevant BAL SOP(s), and were evaluated using reporting limits adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

All data was reported without further qualification and all other associated quality control sample results met the acceptance criteria.

BAL verifies that the reported results of all analyses for which the laboratory is accredited meet the requirements of the accrediting body, unless otherwise noted in the report narrative. For more information regarding accreditations please see the *Report Information* and *Batch Summary* pages. This report must be used in its entirety for interpretation of results.

Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Amy Goodall
Project Manager
Brooks Applied Labs
amy@brooksapplied.com

Report Information

General Disclaimers

Test results are based solely upon the sample submitted to Brooks Applied Labs in the condition it was received . This report shall not be reproduced or copied, except in full, without written approval of the laboratory. Brooks Applied Labs is not responsible for the consequences arising from the use of a partial report.

Laboratory Accreditation

BAL maintains accreditation with various state and national agencies for select test methods. For a current list of BAL accreditations, please visit our website at <http://www.brooksapplied.com/resources/certificates-permits/>. The reported analyte/matrix/method combination shall be considered outside BAL's scopes of accreditation unless otherwise identified as ISO, TNI, or ISO,TNI in the tables. It is the responsibility of the client to verify whether a specific accreditation is required for the intended data use.

ISO: ISO/IEC 17025:2017 accredited test method. Issued by ANSI National Accreditation Board (ANAB), #ADE-1447.02

TNI: NELAP accredited test method. Issued by the State of Florida Department of Health, #E87982.

ISO,TNI: Test method is accredited under both the ISO/IEC 17025:2017 and NELAP accreditations referenced above.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

AR	as received	**MS**	matrix spike
BAL	Brooks Applied Labs	**MSD**	matrix spike duplicate
BLK	method blank	**ND**	non-detect
BS	blank spike	**NR**	non-reportable
CAL	calibration standard	**N/C**	not calculated
CCB	continuing calibration blank	**PS**	post preparation spike
CCV	continuing calibration verification	**REC**	percent recovery
COC	chain of custody record	**RPD**	relative percent difference
D	dissolved fraction	**SCV**	secondary calibration verification
DUP	duplicate	**SOP**	standard operating procedure
IBL	instrument blank	**SRM**	reference material
ICV	initial calibration verification	**T**	total fraction
MDL	method detection limit	**TR**	total recoverable fraction
MRL	method reporting limit		

Definition of Data Qualifiers

E	An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
H	Holding time and/or preservation requirements not met. Please see narrative for explanation.
J	Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
J-1	Estimated value. A full explanation is presented in the narrative.
M	Duplicate precision (RPD) was not within acceptance criteria. Please see narrative for explanation.
N	Spike recovery was not within acceptance criteria. Please see narrative for explanation.
R	Rejected, unusable value. A full explanation is presented in the narrative.
U	Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
X	Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.
Z	Holding time and/or preservation requirements not established for this method; however, BAL recommendations for holding time were not followed. Please see narrative for explanation.

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Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
MCM-INW-01 (680-263583-1)	2504285-01	WATER	Sample	04/15/2025	04/18/2025
MCM- MCM-06 (680-263583-2)	2504285-02	WATER	Sample	04/15/2025	04/18/2025
MCM- PT-01 (680-263583-3)	2504285-03	WATER	Sample	04/15/2025	04/18/2025
MCM- PT-02 (680-263583-4)	2504285-04	WATER	Sample	04/16/2025	04/18/2025
MCM- PT-03 (680-263583-5)	2504285-05	WATER	Sample	04/16/2025	04/18/2025
MCM- DR-01(680-263583-6)	2504285-06	WATER	Sample	04/15/2025	04/18/2025
MCM-DR-02 (680-263583-7)	2504285-07	WATER	Sample	04/16/2025	04/18/2025
MCM- DR-03 (680-263583-8)	2504285-08	WATER	Sample	04/15/2025	04/18/2025
MCM- API-FD-01 (680-263583-9)	2504285-09	WATER	Sample	04/16/2025	04/18/2025

Batch Summary

Analyte	Lab Matrix	Method	Accred.	Prepared	Analyzed	Batch	Sequence
As(III)	Water	SOP BAL-4100	ISO,TNI	04/22/25	04/23/25	B250876	S250383
As(V)	Water	SOP BAL-4100	ISO,TNI	04/22/25	04/23/25	B250876	S250383
DMAs	Water	SOP BAL-4100	ISO	04/22/25	04/23/25	B250876	S250383
MMAs	Water	SOP BAL-4100	ISO	04/22/25	04/23/25	B250876	S250383
Unk As Sp	Water	SOP BAL-4100		04/22/25	04/23/25	B250876	S250383

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Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MCM-INW-01 (680-263583-1)										
2504285-01	As(III)	WATER	D	0.692	J	0.200	1.05	µg/L	B250876	S250383
2504285-01	As(V)	WATER	D	≤ 0.500	U	0.500	1.05	µg/L	B250876	S250383
2504285-01	DMAs	WATER	D	≤ 0.250	U	0.250	1.05	µg/L	B250876	S250383
2504285-01	MMAs	WATER	D	≤ 0.200	U	0.200	1.05	µg/L	B250876	S250383
2504285-01	Unk As Sp	WATER	D	0.434	J	0.250	1.05	µg/L	B250876	S250383
MCM- MCM-06 (680-263583-2)										
2504285-02	As(III)	WATER	D	1.79		0.200	1.05	µg/L	B250876	S250383
2504285-02	As(V)	WATER	D	≤ 0.500	U	0.500	1.05	µg/L	B250876	S250383
2504285-02	DMAs	WATER	D	≤ 0.250	U	0.250	1.05	µg/L	B250876	S250383
2504285-02	MMAs	WATER	D	≤ 0.200	U	0.200	1.05	µg/L	B250876	S250383
2504285-02	Unk As Sp	WATER	D	83.7		0.250	1.05	µg/L	B250876	S250383
MCM- PT-01 (680-263583-3)										
2504285-03	As(III)	WATER	D	0.706	J	0.200	1.05	µg/L	B250876	S250383
2504285-03	As(V)	WATER	D	≤ 0.500	U	0.500	1.05	µg/L	B250876	S250383
2504285-03	DMAs	WATER	D	≤ 0.250	U	0.250	1.05	µg/L	B250876	S250383
2504285-03	MMAs	WATER	D	≤ 0.200	U	0.200	1.05	µg/L	B250876	S250383
2504285-03	Unk As Sp	WATER	D	27.2		0.250	1.05	µg/L	B250876	S250383
MCM- PT-02 (680-263583-4)										
2504285-04	As(III)	WATER	D	1.35		0.200	1.05	µg/L	B250876	S250383
2504285-04	As(V)	WATER	D	≤ 0.500	U	0.500	1.05	µg/L	B250876	S250383
2504285-04	DMAs	WATER	D	≤ 0.250	U	0.250	1.05	µg/L	B250876	S250383
2504285-04	MMAs	WATER	D	≤ 0.200	U	0.200	1.05	µg/L	B250876	S250383
2504285-04	Unk As Sp	WATER	D	10.8		0.250	1.05	µg/L	B250876	S250383
MCM- PT-03 (680-263583-5)										
2504285-05	As(III)	WATER	D	1.07		0.200	1.05	µg/L	B250876	S250383
2504285-05	As(V)	WATER	D	≤ 0.500	U	0.500	1.05	µg/L	B250876	S250383
2504285-05	DMAs	WATER	D	≤ 0.250	U	0.250	1.05	µg/L	B250876	S250383
2504285-05	MMAs	WATER	D	≤ 0.200	U	0.200	1.05	µg/L	B250876	S250383
2504285-05	Unk As Sp	WATER	D	60.9		0.250	1.05	µg/L	B250876	S250383

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Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
MCM- DR-01(680-263583-6)										
2504285-06	As(III)	WATER	D	0.897	J	0.200	1.05	µg/L	B250876	S250383
2504285-06	As(V)	WATER	D	≤ 0.500	U	0.500	1.05	µg/L	B250876	S250383
2504285-06	DMAs	WATER	D	≤ 0.250	U	0.250	1.05	µg/L	B250876	S250383
2504285-06	MMAs	WATER	D	≤ 0.200	U	0.200	1.05	µg/L	B250876	S250383
2504285-06	Unk As Sp	WATER	D	52.1		0.250	1.05	µg/L	B250876	S250383
MCM-DR-02 (680-263583-7)										
2504285-07	As(III)	WATER	D	1.61		0.200	1.05	µg/L	B250876	S250383
2504285-07	As(V)	WATER	D	≤ 0.500	U	0.500	1.05	µg/L	B250876	S250383
2504285-07	DMAs	WATER	D	≤ 0.250	U	0.250	1.05	µg/L	B250876	S250383
2504285-07	MMAs	WATER	D	≤ 0.200	U	0.200	1.05	µg/L	B250876	S250383
2504285-07	Unk As Sp	WATER	D	136		0.250	1.05	µg/L	B250876	S250383
MCM- DR-03 (680-263583-8)										
2504285-08	As(III)	WATER	D	0.396	J	0.200	1.05	µg/L	B250876	S250383
2504285-08	As(V)	WATER	D	≤ 0.500	U	0.500	1.05	µg/L	B250876	S250383
2504285-08	DMAs	WATER	D	≤ 0.250	U	0.250	1.05	µg/L	B250876	S250383
2504285-08	MMAs	WATER	D	≤ 0.200	U	0.200	1.05	µg/L	B250876	S250383
2504285-08	Unk As Sp	WATER	D	0.794	J	0.250	1.05	µg/L	B250876	S250383
MCM- API-FD-01 (680-263583-9)										
2504285-09	As(III)	WATER	D	1.33		0.200	1.05	µg/L	B250876	S250383
2504285-09	As(V)	WATER	D	1.08		0.500	1.05	µg/L	B250876	S250383
2504285-09	DMAs	WATER	D	≤ 0.250	U	0.250	1.05	µg/L	B250876	S250383
2504285-09	MMAs	WATER	D	≤ 0.200	U	0.200	1.05	µg/L	B250876	S250383
2504285-09	Unk As Sp	WATER	D	12.0		0.250	1.05	µg/L	B250876	S250383

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Accuracy & Precision Summary

Batch: B250876
Lab Matrix: Water
Method: SOP BAL-4100

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B250876-BS1	**Blank Spike, (2508047)**						
	As(III)		5.000	4.631	µg/L	93% 75-125	
	As(V)		5.000	4.287	µg/L	86% 75-125	
B250876-BS2	**Blank Spike, (2508048)**						
	DMAs		5.000	5.109	µg/L	102% 75-125	
	MMAs		4.400	4.614	µg/L	105% 75-125	
B250876-MS3	**Matrix Spike, (2504285-02)**						
	As(III)	1.794	52.25	49.10	µg/L	91% 75-125	
	As(V)	ND	48.55	51.19	µg/L	105% 75-125	
	DMAs	ND	55.55	53.23	µg/L	96% 75-125	
	MMAs	ND	50.00	46.68	µg/L	93% 75-125	
B250876-DUP1	**Duplicate, (2504285-09)**						
	As(III)	1.334		1.734	µg/L		*26%* 25
	As(V)	1.081		1.154	µg/L		7% 25
	DMAs	ND		ND	µg/L		N/C 25
	MMAs	ND		ND	µg/L		N/C 25
	Unk As Sp	12.00		11.60	µg/L		3% 25
B250876-MS1	**Matrix Spike, (2504285-09)**						
	As(III)	1.334	52.25	51.39	µg/L	96% 75-125	
	As(V)	1.081	48.55	46.42	µg/L	93% 75-125	
	DMAs	ND	55.55	52.93	µg/L	95% 75-125	
	MMAs	ND	50.00	46.48	µg/L	93% 75-125	
B250876-MSD1	**Matrix Spike Duplicate, (2504285-09)**						
	As(III)	1.334	52.25	51.03	µg/L	95% 75-125	0.7% 25
	As(V)	1.081	48.55	45.99	µg/L	93% 75-125	0.9% 25
	DMAs	ND	55.55	51.80	µg/L	93% 75-125	2% 25
	MMAs	ND	50.00	46.94	µg/L	94% 75-125	1% 25

Method Blanks & Reporting Limits

Batch: B250876
Matrix: Water
Method: SOP BAL-4100
Analyte: As(III)

Sample	Result	Units
B250876-BLK1	0.00	µg/L
B250876-BLK2	0.00	µg/L
B250876-BLK3	0.00	µg/L
B250876-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.004
MRL: 0.021

Analyte: As(V)

Sample	Result	Units
B250876-BLK1	0.00	µg/L
B250876-BLK2	0.00	µg/L
B250876-BLK3	0.00	µg/L
B250876-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.010
MRL: 0.021

Analyte: DMAs

Sample	Result	Units
B250876-BLK1	0.00	µg/L
B250876-BLK2	0.00	µg/L
B250876-BLK3	0.00	µg/L
B250876-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021
MDL: 0.005
MRL: 0.021

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Method Blanks & Reporting Limits

Analyte: MMAs

Sample	Result	Units
B250876-BLK1	0.00	µg/L
B250876-BLK2	0.00	µg/L
B250876-BLK3	0.00	µg/L
B250876-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.004
MRL: 0.021

Analyte: Unk As Sp

Sample	Result	Units
B250876-BLK1	0.00	µg/L
B250876-BLK2	0.00	µg/L
B250876-BLK3	0.00	µg/L
B250876-BLK4	0.00	µg/L

Average: 0.000
Limit: 0.021

MDL: 0.005
MRL: 0.021

Sample Containers

Lab ID: 2504285-01 **Report Matrix:** WATER **Collected:** 04/15/2025
Sample: MCM-INW-01 (680-263583-1) **Sample Type:** Sample **Received:** 04/18/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0118	EDTA (Vial)	n/a	n/a	Cooler - 2504285
B	XTRA_VOL	10 mL	24-0118	EDTA (Vial)	n/a	n/a	Cooler - 2504285

Lab ID: 2504285-02 **Report Matrix:** WATER **Collected:** 04/15/2025
Sample: MCM- MCM-06 (680-263583-2) **Sample Type:** Sample **Received:** 04/18/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0118	EDTA (Vial)	n/a	n/a	Cooler - 2504285
B	XTRA_VOL	10 mL	24-0118	EDTA (Vial)	n/a	n/a	Cooler - 2504285

Lab ID: 2504285-03 **Report Matrix:** WATER **Collected:** 04/15/2025
Sample: MCM- PT-01 (680-263583-3) **Sample Type:** Sample **Received:** 04/18/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0118	EDTA (Vial)	n/a	n/a	Cooler - 2504285
B	XTRA_VOL	10 mL	24-0118	EDTA (Vial)	n/a	n/a	Cooler - 2504285

Lab ID: 2504285-04 **Report Matrix:** WATER **Collected:** 04/16/2025
Sample: MCM- PT-02 (680-263583-4) **Sample Type:** Sample **Received:** 04/18/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0118	EDTA (Vial)	n/a	n/a	Cooler - 2504285
B	XTRA_VOL	10 mL	24-0118	EDTA (Vial)	n/a	n/a	Cooler - 2504285

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Sample Containers

Lab ID: 2504285-05 **Report Matrix:** WATER **Collected:** 04/16/2025
Sample: MCM- PT-03 (680-263583-5) **Sample Type:** Sample **Received:** 04/18/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0118	EDTA (Vial)	n/a	n/a	Cooler - 2504285
B	XTRA_VOL	10 mL	24-0118	EDTA (Vial)	n/a	n/a	Cooler - 2504285

Lab ID: 2504285-06 **Report Matrix:** WATER **Collected:** 04/15/2025
Sample: MCM- DR-01(680-263583-6) **Sample Type:** Sample **Received:** 04/18/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0118	EDTA (Vial)	n/a	n/a	Cooler - 2504285
B	XTRA_VOL	10 mL	24-0118	EDTA (Vial)	n/a	n/a	Cooler - 2504285

Lab ID: 2504285-07 **Report Matrix:** WATER **Collected:** 04/16/2025
Sample: MCM-DR-02 (680-263583-7) **Sample Type:** Sample **Received:** 04/18/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0118	EDTA (Vial)	n/a	n/a	Cooler - 2504285
B	XTRA_VOL	10 mL	24-0118	EDTA (Vial)	n/a	n/a	Cooler - 2504285

Lab ID: 2504285-08 **Report Matrix:** WATER **Collected:** 04/15/2025
Sample: MCM- DR-03 (680-263583-8) **Sample Type:** Sample **Received:** 04/18/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0118	EDTA (Vial)	n/a	n/a	Cooler - 2504285
B	XTRA_VOL	10 mL	24-0118	EDTA (Vial)	n/a	n/a	Cooler - 2504285

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Project ID: EUR-SV2201
PM: Amy Goodall

Client PM: David Fuller
Client Project: 680-799353-1

Sample Containers

Lab ID: 2504285-09
Sample: MCM- API-FD-01 (680-263583-9)
Report Matrix: WATER
Sample Type: Sample
Collected: 04/16/2025
Received: 04/18/2025

Des	Container	Size	Lot	Preservation	P-Lot	pH	Ship. Cont.
A	Vacutainer	10 mL	24-0118	EDTA (Vial)	n/a	n/a	Cooler - 2504285
B	XTRA_VOL	10 mL	24-0118	EDTA (Vial)	n/a	n/a	Cooler - 2504285

Shipping Containers

Cooler - 2504285

Received: April 18, 2025 9:50
Tracking No: 4260 4479 1703 via FedEx
Coolant Type: Ice
Temperature: 5.6 °C

Description: Cooler
Damaged in transit? No
Returned to client? No
Comments: R-IR-6

Custody seals present? No
Custody seals intact? No
COC present? Yes

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Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912-354-7858 Fax: 912-352-0165

Chain of Custody Record

BAL Report 2504285

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Fuller, David	Carrier Tracking No(s): N/A	COC No: 680-799353.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia	Page: Page 1 of 1
Company: Brooks Applied Labs LLC		Accreditations Required (See note): State - Georgia		Job #: 680-263583-1
Address: 13751 Lake City Way NE, Suite 108,	Due Date Requested: 4/30/2025			Preservation Codes: -
City: Seattle	TAT Requested (days): N/A			
State, Zip: WA, 98125				
Phone: N/A	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Plant McManus	Project #: 68027841			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

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)	SUB (Metals Speciation)/ Metals Speciation	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MCM-INW-01 (680-263583-1)	4/15/25	14:07 Eastern	G	Water			X	2	
MCM-MCM-06 (680-263583-2)	4/15/25	11:41 Eastern	G	Water			X	2	
MCM-PT-01 (680-263583-3)	4/15/25	10:39 Eastern	G	Water			X	2	
MCM-PT-02 (680-263583-4)	4/16/25	09:43 Eastern	G	Water			X	2	
MCM-PT-03 (680-263583-5)	4/16/25	12:16 Eastern	G	Water			X	2	
MCM-DR-01 (680-263583-6)	4/15/25	13:55 Eastern	G	Water			X	2	
MCM-DR-02 (680-263583-7)	4/16/25	10:25 Eastern	G	Water			X	2	
MCM-DR-03 (680-263583-8)	4/15/25	11:08 Eastern	G	Water			X	2	
MCM-API-FD-01 (680-263583-9)	4/16/25	Eastern	G	Water			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
C. Munoz	4/17/25 1350	Eurofins	LPG	4/18/25 0950	BAL
Relinquished by:	Date/Time:	Company	Received by:	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

4/29/2025

Chain-of-Custody Form

BROOKS APPLIED LABS

Ship samples to:
13751 Lake City Way NE, Suite 108
Seattle, WA 98125

For BAL use only
Received by: _____ *Date:* _____
Work Order ID: _____ *Time:* _____
Project ID: _____

Client: Southern Company
Contact: David Fuller
Client Project ID: _____
Samples Collected By: Ensafe / Natalie Pigaro / Jay Siewert

PO Number: _____
Phone: (470) 895-9653
Email: npigaro@ensafe.com

Mailing Address: 1050 Holcomb Bridge Rd, Building 200 Suite 340 Roswell GA 30076
Email Receipt Confirmation? (Yes/No)
BAL PM: _____

Requested TAT (business days)
- ☐ 20 (standard)
- ☐ 15*
- ☐ 10*
- ☐ 5*
- ☐ Other ____

*Surcharges may apply to expedited TATs

	Sample ID	Collection: Date	Collection: Time	Client Sample Info: Matrix Type	Number of Containers	Field Filtered? (Yes/No)	Preservation Type HCl/HNO_3/Other	BAL Analyses Required: Total Hg, EPA 1631	Methyl Hg, EPA 1630	ICP-MS Metals (specify)	As Species (specify) (InOrg, III, V, MMA, DMA)	Se Species (specify) Se(IV), Se(VI), SeCN, Uknown	Filtration	Other (specify)	Other (specify)	Comments: Specify Here
1	MCM-INW-01	04/15/25	1407	WG	2	Y					X					
2	MCM-MCM-06	04/15/25	1141	WG	2	Y					X					
3	MCM-PT-01	04/15/25	1039	WG	2	Y					X					
4	MCM-PT-02	04/16/25	0943	WG	2	Y					X					
5	MCM-PT-03	04/16/25	1216	WG	2	Y					X					
6	MCM-DR-01	04/15/25	1355	WG	2	Y					X					
7	MCM-DR-02	04/16/25	1025	WG	2	Y					X					
8	MCM-DR-03	04/15/25	1108	WG	2	Y					X					
9	MCM-API-FD-01	04/16/25	—	WG	2	Y					X					
10																
	Trip Blank															

680-263583 Chain of Custody

Relinquished By:	Date: 4/16/25	Time: 1645	Relinquished By:	Date:	Time:
Received By: Fed Ex	Date:	Time:	Total Number of Packages:		

Page 1 of 1 List Hazardous Contaminants: _____

OK 4-17-25 1025 4.2/42

Plant McManus Performance Monitoring Sampling Week 34				
Task Code: MCM-CCR-CA-20250414				
Location Code/Label	**Sample Code**	**Matrix Code**	**Sulfide[3] (SM4500)**	**As Speciation[1] (IC-ICP-MS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X	
Extra 1			X	
Extra 2			X	

[1]As speciation to be analyzed by Brooks through Eurofins

[3]Sulfide samples to be analyzed by Eurofins

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-263583-1

Login Number: 263583
List Number: 1
Creator: Sims, Robert D

List Source: Eurofins Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 2/6/2025 8:40:25 PM

JOB DESCRIPTION

Plant McManus Performance Monitoring 23 Week Jan

JOB NUMBER

680-261393-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

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

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2/6/2025 8:40:25 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-261393-1
Project/Site: Plant McManus Performance Monitoring 23 Week
Jan

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: 680-261393-1
Project/Site: Plant McManus Performance Monitoring 23 Week Jan

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-261393-1	MCM-INW-01	Water	01/29/25 14:32	01/31/25 10:09
680-261393-2	MCM-MCM-06	Water	01/29/25 14:48	01/31/25 10:09
680-261393-3	MCM-PT-01	Water	01/29/25 11:10	01/31/25 10:09
680-261393-4	MCM-PT-02	Water	01/30/25 11:35	01/31/25 10:09
680-261393-5	MCM-PT-03	Water	01/30/25 09:35	01/31/25 10:09
680-261393-6	MCM-DR-01	Water	01/30/25 09:44	01/31/25 10:09
680-261393-7	MCM-DR-02	Water	01/30/25 10:55	01/31/25 10:09
680-261393-8	MCM-DR-03	Water	01/29/25 10:54	01/31/25 10:09
680-261393-9	MCM-AP1-FD-01	Water	01/29/25 00:00	01/31/25 10:09
680-261393-10	MCM-AP1-FB-01	Water	01/30/25 08:05	01/31/25 10:09
680-261393-11	MCM-AP1-EB-01	Water	01/30/25 08:11	01/31/25 10:09

Job ID: 680-261393-1 Eurofins Savannah

Job Narrative
680-261393-1

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 1/31/2025 10:09 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 2.8°C.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Southern Company
Job ID: 680-261393-1
Project/Site: Plant McManus Performance Monitoring 23 Week Jan

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-261393-1
Date Collected: 01/29/25 14:32
Matrix: Water
Date Received: 01/31/25 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	5.9		0.81	0.81	mg/L			02/03/25 11:13	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-261393-2
Date Collected: 01/29/25 14:48
Matrix: Water
Date Received: 01/31/25 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	36		0.81	0.81	mg/L			02/03/25 11:13	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-261393-3
Date Collected: 01/29/25 11:10
Matrix: Water
Date Received: 01/31/25 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	22		0.81	0.81	mg/L			02/03/25 11:13	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-261393-4
Date Collected: 01/30/25 11:35
Matrix: Water
Date Received: 01/31/25 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	12		0.81	0.81	mg/L			02/03/25 11:13	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-261393-5
Date Collected: 01/30/25 09:35
Matrix: Water
Date Received: 01/31/25 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	25		0.81	0.81	mg/L			02/03/25 11:13	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-261393-6
Date Collected: 01/30/25 09:44
Matrix: Water
Date Received: 01/31/25 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	29		0.81	0.81	mg/L			02/03/25 11:13	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-261393-7
Date Collected: 01/30/25 10:55
Matrix: Water
Date Received: 01/31/25 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	39		0.81	0.81	mg/L			02/03/25 11:13	1

Client Sample Results

Client: Southern Company
Job ID: 680-261393-1
Project/Site: Plant McManus Performance Monitoring 23 Week Jan

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-261393-8
Date Collected: 01/29/25 10:54
Matrix: Water
Date Received: 01/31/25 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	13		0.83	0.83	mg/L			02/03/25 11:13	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-261393-9
Date Collected: 01/29/25 00:00
Matrix: Water
Date Received: 01/31/25 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	13		0.83	0.83	mg/L			02/03/25 11:13	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-261393-10
Date Collected: 01/30/25 08:05
Matrix: Water
Date Received: 01/31/25 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/03/25 11:13	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-261393-11
Date Collected: 01/30/25 08:11
Matrix: Water
Date Received: 01/31/25 10:09

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			02/03/25 11:13	1

Client: Southern Company
Job ID: 680-261393-1
Project/Site: Plant McManus Performance Monitoring 23 Week Jan

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-874184/1
Matrix: Water
Analysis Batch: 874184
Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			02/03/25 11:13	1

Lab Sample ID: LCS 680-874184/2
Matrix: Water
Analysis Batch: 874184
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	7.97		mg/L		80	75 - 125		

Lab Sample ID: LCSD 680-874184/3
Matrix: Water
Analysis Batch: 874184
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
Sulfide			10.0	8.20		mg/L		82	75 - 125	3	30

Lab Sample ID: 670-55841-F-1 MS
Matrix: Water
Analysis Batch: 874184
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		
Sulfide	4.1		6.50	9.97		mg/L		90	75 - 125		

Lab Sample ID: 670-55841-F-1 MSD
Matrix: Water
Analysis Batch: 874184
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
Sulfide	4.1		6.50	9.97		mg/L		90	75 - 125	0	30

Lab Sample ID: 670-55755-F-1 DU
Matrix: Water
Analysis Batch: 874184
Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	<1.0			<0.83		mg/L				NC	30

QC Association Summary

Client: Southern Company
Job ID: 680-261393-1
Project/Site: Plant McManus Performance Monitoring 23 Week Jan

General Chemistry

Analysis Batch: 874184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-261393-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-261393-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-261393-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
680-261393-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-261393-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-261393-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-261393-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-261393-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-261393-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
680-261393-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-261393-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-874184/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-874184/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-874184/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
670-55841-F-1 MS	Matrix Spike	Total/NA	Water	4500 S2 F-2011	
670-55841-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	4500 S2 F-2011	
670-55755-F-1 DU	Duplicate	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-261393-1
Project/Site: Plant McManus Performance Monitoring 23 Week Jan

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-261393-1
Date Collected: 01/29/25 14:32
Matrix: Water
Date Received: 01/31/25 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	874184	02/03/25 11:13	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-261393-2
Date Collected: 01/29/25 14:48
Matrix: Water
Date Received: 01/31/25 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	874184	02/03/25 11:13	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-261393-3
Date Collected: 01/29/25 11:10
Matrix: Water
Date Received: 01/31/25 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	874184	02/03/25 11:13	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-261393-4
Date Collected: 01/30/25 11:35
Matrix: Water
Date Received: 01/31/25 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	874184	02/03/25 11:13	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-261393-5
Date Collected: 01/30/25 09:35
Matrix: Water
Date Received: 01/31/25 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	874184	02/03/25 11:13	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-261393-6
Date Collected: 01/30/25 09:44
Matrix: Water
Date Received: 01/31/25 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	874184	02/03/25 11:13	JAS	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-261393-1
Project/Site: Plant McManus Performance Monitoring 23 Week Jan

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-261393-7
Date Collected: 01/30/25 10:55
Matrix: Water
Date Received: 01/31/25 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	874184	02/03/25 11:13	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-261393-8
Date Collected: 01/29/25 10:54
Matrix: Water
Date Received: 01/31/25 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	874184	02/03/25 11:13	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-261393-9
Date Collected: 01/29/25 00:00
Matrix: Water
Date Received: 01/31/25 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	874184	02/03/25 11:13	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-261393-10
Date Collected: 01/30/25 08:05
Matrix: Water
Date Received: 01/31/25 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	874184	02/03/25 11:13	JAS	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-261393-11
Date Collected: 01/30/25 08:11
Matrix: Water
Date Received: 01/31/25 10:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	874184	02/03/25 11:13	JAS	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: 680-261393-1
Project/Site: Plant McManus Performance Monitoring 23 Week Jan

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Job ID: 680-261393-1
Project/Site: Plant McManus Performance Monitoring 23 Week Jan

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

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Client Information	Sampler: Natalie Piparo, Jay Siewert (EnSafe)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:			Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Performance Monitoring 23-Week Sampling January 2025	Project #:			
Site: Plant McManus	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, Y - Trizma, Z - other (specify)
Other:

Task_Code: MCM-CCR-CA-20250127

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				CB		
MCM-INW-01	1/29/25	1432	G	WG	N		X	2	
MCM-MCM-06	1/29/25	1448	G	WG	N		X	2	
MCM-PT-01	1/29/25	1110	G	WG	N		X	2	
MCM-PT-02	1/30/25	1135	G	WG	N		X	2	
MCM-PT-03	1/30/25	0935	G	WG	N		X	2	
MCM-DR-01	1/30/25	0944	G	WG	N		X	2	
MCM-DR-02	1/30/25	1055	G	WG	N		X	2	
MCM-DR-03	1/29/25	1054	G	WG	N		X	2	
MCM-AP1-FD-01	1/29/25	—	G	WG	N		X		
MCM-AP1-FB-01	1/30/25	0805	G	WQ	N		X		
MCM-AP1-EB-01	1/30/25	0811	G	WQ	N		X		

680-261393 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assess
☐ 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	Jay Siewert EnSafe	1/30/25 1515	EnSafe	FedEx	1/30/25 1515	FedEx
2					1.31.25 1009	
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.8/2.8

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-261393-1

Login Number: 261393

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

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JOB DESCRIPTION

Plant McManus Performance Monitoring 34 Week Apr

JOB NUMBER

680-263582-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

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

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

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: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week Apr

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-263582-1	MCM-INW-01	Water	04/15/25 14:07	04/17/25 10:25
680-263582-2	MCM-MCM-06	Water	04/16/25 11:41	04/17/25 10:25
680-263582-3	MCM-PT-01	Water	04/15/25 10:39	04/17/25 10:25
680-263582-4	MCM-PT-02	Water	04/16/25 09:43	04/17/25 10:25
680-263582-5	MCM-PT-03	Water	04/16/25 12:16	04/17/25 10:25
680-263582-6	MCM-DR-01	Water	04/15/25 13:55	04/17/25 10:25
680-263582-7	MCM-DR-02	Water	04/16/25 10:25	04/17/25 10:25
680-263582-8	MCM-DR-03	Water	04/15/25 11:08	04/17/25 10:25
680-263582-9	MCM-AP1-FD-01	Water	04/16/25 00:00	04/17/25 10:25
680-263582-10	MCM-AP1-FB-01	Water	04/15/25 15:47	04/17/25 10:25
680-263582-11	MCM-AP1-EB-01	Water	04/15/25 15:57	04/17/25 10:25

Job ID: 680-263582-1 Eurofins Savannah

Job Narrative
680-263582-1

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 4/17/2025 10:25 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 4.2°C.

General Chemistry
Method SM4500_S2_F: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-881151 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.

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-263582-1
Date Collected: 04/15/25 14:07
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	1.5		0.83	0.83	mg/L			04/17/25 16:32	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-263582-2
Date Collected: 04/16/25 11:41
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	23		0.81	0.81	mg/L			04/17/25 16:32	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-263582-3
Date Collected: 04/15/25 10:39
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	18		0.81	0.81	mg/L			04/17/25 16:32	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-263582-4
Date Collected: 04/16/25 09:43
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	5.4		0.81	0.81	mg/L			04/21/25 10:55	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-263582-5
Date Collected: 04/16/25 12:16
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	21	F1	0.81	0.81	mg/L			04/21/25 10:55	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-263582-6
Date Collected: 04/15/25 13:55
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	22		0.81	0.81	mg/L			04/17/25 16:53	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-263582-7
Date Collected: 04/16/25 10:25
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	37		0.81	0.81	mg/L			04/21/25 10:55	1

Client Sample Results

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-263582-8
Date Collected: 04/15/25 11:08
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**5.8**		0.81	0.81	mg/L			04/17/25 16:53	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-263582-9
Date Collected: 04/16/25 00:00
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**5.8**		0.81	0.81	mg/L			04/21/25 10:55	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-263582-10
Date Collected: 04/15/25 15:47
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			04/17/25 16:53	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-263582-11
Date Collected: 04/15/25 15:57
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			04/17/25 16:53	1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-881047/1
Matrix: Water
Analysis Batch: 881047

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			04/17/25 16:32	1

Lab Sample ID: LCS 680-881047/2
Matrix: Water
Analysis Batch: 881047

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.61		mg/L		96	75 - 125		

Lab Sample ID: LCSD 680-881047/3
Matrix: Water
Analysis Batch: 881047

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
Sulfide			10.0	9.55		mg/L		96	75 - 125	1	30

Lab Sample ID: 680-263582-2 MS
Matrix: Water
Analysis Batch: 881047

Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	23		6.50	30.8		mg/L		118	75 - 125		

Lab Sample ID: 680-263582-2 MSD
Matrix: Water
Analysis Batch: 881047

Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	23		6.50	30.8		mg/L		118	75 - 125	0	30

Lab Sample ID: 680-263582-1 DU
Matrix: Water
Analysis Batch: 881047

Client Sample ID: MCM-INW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	1.5			1.60		mg/L				6	30

Lab Sample ID: MB 680-881049/1
Matrix: Water
Analysis Batch: 881049

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			04/17/25 16:53	1

Method: 4500 S2 F-2011 - Sulfide, Total (Continued)

Lab Sample ID: LCS 680-881049/2
Matrix: Water
Analysis Batch: 881049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.61		mg/L		96	75 - 125		

Lab Sample ID: LCSD 680-881049/3
Matrix: Water
Analysis Batch: 881049

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
Sulfide			10.0	9.35		mg/L		94	75 - 125	3	30

Lab Sample ID: 680-263562-D-2 MS
Matrix: Water
Analysis Batch: 881049

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		
Sulfide	<0.96		9.24	9.45		mg/L		102	75 - 125		

Lab Sample ID: 680-263562-D-2 MSD
Matrix: Water
Analysis Batch: 881049

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
Sulfide	<0.96		9.24	9.45		mg/L		102	75 - 125	0	30

Lab Sample ID: 680-263562-D-1 DU
Matrix: Water
Analysis Batch: 881049

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	<1.0			<0.96		mg/L				NC	30

Lab Sample ID: MB 680-881151/1
Matrix: Water
Analysis Batch: 881151

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			04/21/25 10:55	1

Lab Sample ID: LCS 680-881151/2
Matrix: Water
Analysis Batch: 881151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	10.4		mg/L		104	75 - 125		

Method: 4500 S2 F-2011 - Sulfide, Total (Continued)

Lab Sample ID: LCSD 680-881151/3
Matrix: Water
Analysis Batch: 881151

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
Sulfide			10.0	10.4		mg/L		104	75 - 125	0	30

Lab Sample ID: 680-263582-5 MS
Matrix: Water
Analysis Batch: 881151

Client Sample ID: MCM-PT-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	21	F1	6.50	24.8	F1	mg/L		60	75 - 125		

Lab Sample ID: 680-263582-5 MSD
Matrix: Water
Analysis Batch: 881151

Client Sample ID: MCM-PT-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	21	F1	6.50	24.8	F1	mg/L		60	75 - 125	0	30

Lab Sample ID: 680-263582-4 DU
Matrix: Water
Analysis Batch: 881151

Client Sample ID: MCM-PT-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	5.4			5.33		mg/L				1	30

QC Association Summary

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

General Chemistry

Analysis Batch: 881047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-263582-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-263582-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-263582-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
MB 680-881047/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-881047/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-881047/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-263582-2 MS	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-263582-2 MSD	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-263582-1 DU	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 881049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-263582-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-263582-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-263582-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-263582-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-881049/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-881049/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-881049/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-263562-D-2 MS	Matrix Spike	Total/NA	Water	4500 S2 F-2011	
680-263562-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	4500 S2 F-2011	
680-263562-D-1 DU	Duplicate	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 881151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-263582-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-263582-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-263582-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-263582-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
MB 680-881151/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-881151/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-881151/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-263582-5 MS	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-263582-5 MSD	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-263582-4 DU	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-263582-1
Date Collected: 04/15/25 14:07
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	881047	04/17/25 16:32	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-263582-2
Date Collected: 04/16/25 11:41
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881047	04/17/25 16:32	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-263582-3
Date Collected: 04/15/25 10:39
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881047	04/17/25 16:32	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-263582-4
Date Collected: 04/16/25 09:43
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881151	04/21/25 10:55	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-263582-5
Date Collected: 04/16/25 12:16
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881151	04/21/25 10:55	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-263582-6
Date Collected: 04/15/25 13:55
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881049	04/17/25 16:53	NVF	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-263582-7
Date Collected: 04/16/25 10:25
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881151	04/21/25 10:55	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-263582-8
Date Collected: 04/15/25 11:08
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881049	04/17/25 16:53	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-263582-9
Date Collected: 04/16/25 00:00
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881151	04/21/25 10:55	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-263582-10
Date Collected: 04/15/25 15:47
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881049	04/17/25 16:53	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-263582-11
Date Collected: 04/15/25 15:57
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881049	04/17/25 16:53	NVF	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: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Natalie Piparo, Jay Siewert (EnSafe)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:	Analysis Requested		Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Performance Monitoring 34-Week Sampling April 2025	Project #:			
Site:	SSOW#:			

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, Y - Trizma, Z - other (specify)
Other:

Task_Code: MCM-CCR-CA-20250414

Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total Number of containers
			Preservation Code:				CB	
MCM-INW-01	04/15/25	1407	G	WG	N		X	2
MCM-MCM-06	04/16/25	1141	G	WG	N		X	2
MCM-PT-01	04/15/25	1039	G	WG	N		X	2
MCM-PT-02	04/16/25	0943	G	WG	N		X	2
MCM-PT-03	04/16/25	1216	G	WG	N		X	2
MCM-DR-01	04/15/25	1355	G	WG	N		X	2
MCM-DR-02	04/16/25	1025	G	WG	N		X	2
MCM-DR-03	04/15/25	1108	G	WG	N		X	2
MCM-AP1-FD-01	04/16/25	—	G	WG	N		X	2
MCM-AP1-FB-01	04/15/25	1547	G	WQ	N		X	2
MCM-AP1-EB-01	04/15/25	1557	G	WQ	N		X	2

680-263582 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 lon
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ ...rs

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
	4/16/25 1645	Ensafe	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				4-17-25 1025	
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: 4.2/4.2

Plant McManus Performance Monitoring Sampling Week 34				
Task Code: MCM-CCR-CA-20250414				
Location Code/Label	**Sample Code**	**Matrix Code**	**Sulfide[3] (SM4500)**	**As Speciation[1] (IC-ICP-MS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X	
Extra 1			X	
Extra 2			X	

[1]As speciation to be analyzed by Brooks through Eurofins

[3]Sulfide samples to be analyzed by Eurofins

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-263582-1

Login Number: 263582

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix F

MicroVision SEM/BSE/EDS Report

Accreditation# 98218

September 6, 2024

Southern Company Services

MVL Project #: 16730
Report Analyst: D. Weidler

Scope of Work:

This report covers the methods and findings of the analysis that MicroVision Laboratories, Inc. conducted on one sample from Southern Company Services. The purpose of the analysis was to evaluate the sample for the presence of arsenic, metals and sulfur by SEM/BSE/EDS. The results presented in this report relate only to the samples examined and as received.

Equipment:

Scanning Electron Microscopy (SEM)
Energy Dispersive X-Ray Spectroscopy (EDS)
Back Scattered Electron Microscopy (BSE)

Methods:

MicroVision Labs is accredited to the ISO/IEC 17025:2017 standard. This analysis follows our in house SOP for SEM/EDS (#MVL01). This method is listed on our certificate of accreditation and has been validated.

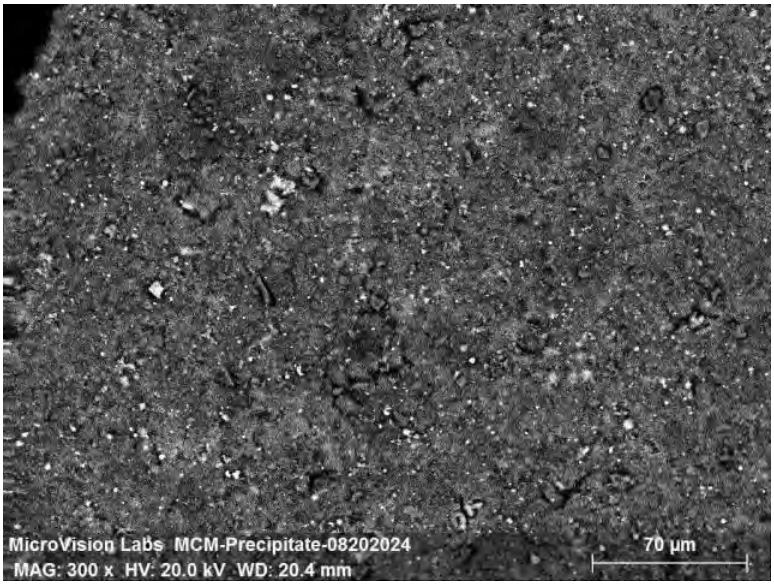
Three drops were filters through a 0.1um polycarbonate filter and five drops were allowed to air dry on a glass coverslip. Representative flakes of material from the filter were removed and placed on an aluminum analysis stub with carbon tape and coated with a thin layer (~15nm) of evaporated graphite to make the material conductive for SEM/BSE/EDS analysis. SEM/BSE images and EDS spectra of the individual particles and the average elemental composition of the sample were obtained. Backscatter Electron Imaging (BSE) correlates image brightness with atomic density (so that heavier elements [such as arsenic] appear bright white) and was used to more readily find any particles of interest in this sample.

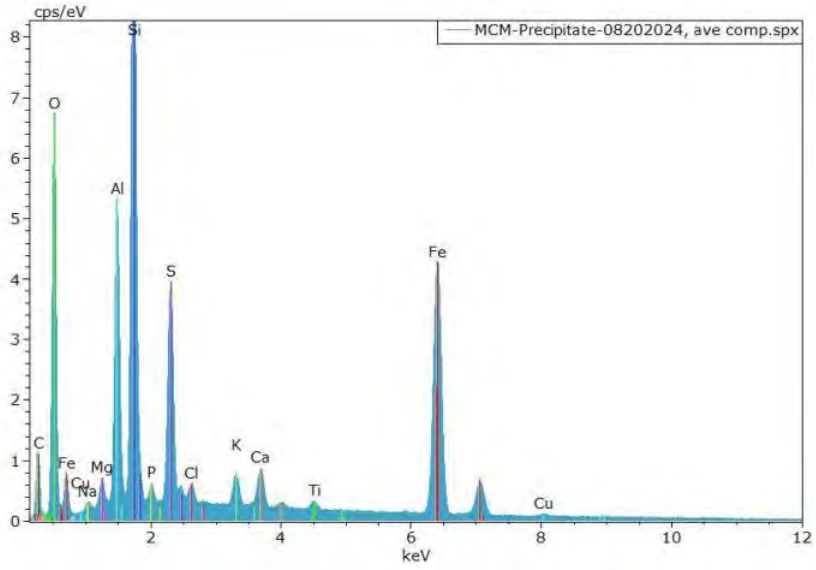
MicroVision Laboratories, Inc. 187 Billerica Road, Chelmsford, MA 01824
Phone: (978) 250-9909 Fax: (978) 250-9901 Email: Sales@MicroVisionLabs.com
www.MicroVisionLabs.com

Findings:

MCM-Precipitate-08202024

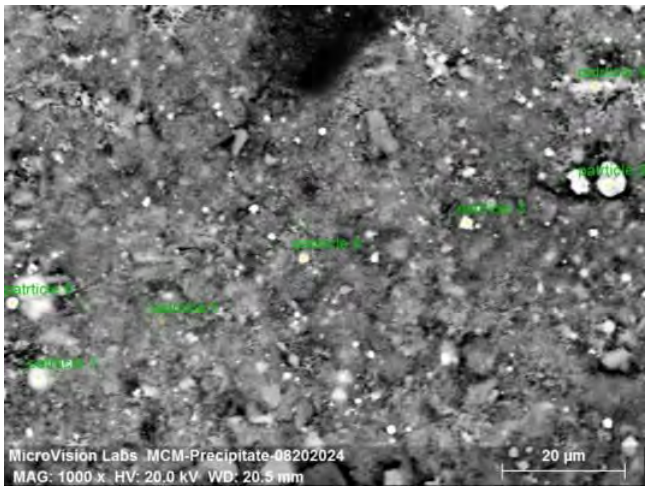
The average composition BSE image for the particles in this sample is shown below. There were high concentrations of silicon, oxygen, aluminum, sulfur and iron with lower to trace concentrations of other elements. See EDS spectrum below. No arsenic was detected in the average composition spectrum.

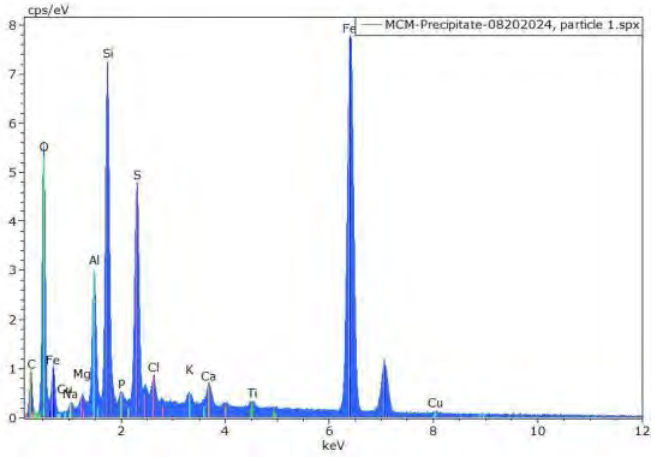


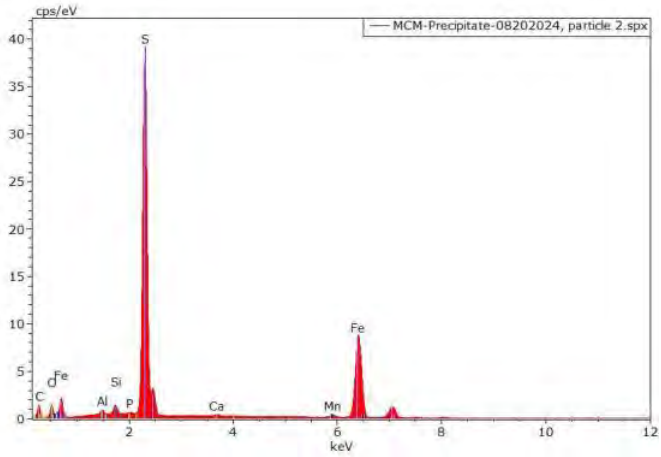


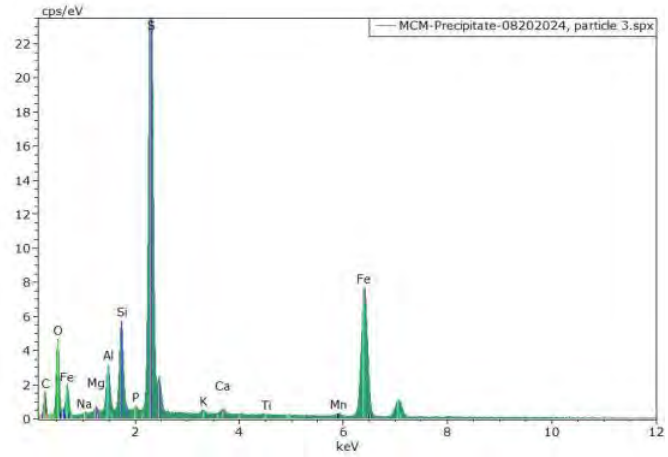
ISO/IEC 17025:2017 Accredited
MicroVision Laboratories, Inc. 187 Billerica Road, Chelmsford, MA 01824
Phone: (978) 250-9909 Fax: (978) 250-9901 Email: Sales@MicroVisionLabs.com
www.MicroVisionLabs.com

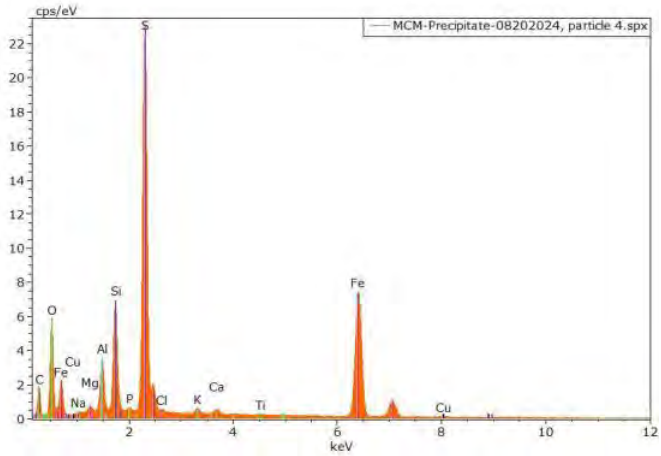
Individual particles were also examined from this sample and are shown below. Numerous particles containing high concentrations of sulfur and iron and lower concentrations of other elements (see particle 2, 3, 4, 6, 7, 9, 10 and 13). Particles with high concentrations of iron and silicon (see particle 1 and 8). Particles with high concentrations of aluminum and silicon (see particle 5 and 11). Particles with high concentrations of iron and oxygen (see particle 12) and particles with high concentrations of silicon and titanium (see particle 14). No arsenic was detected in the individual particles examined.

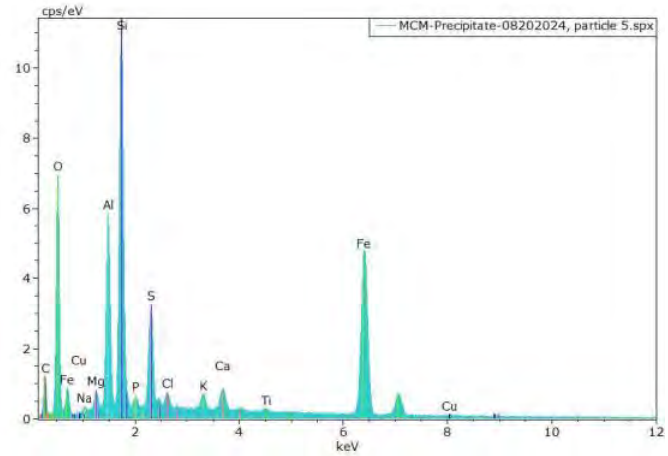












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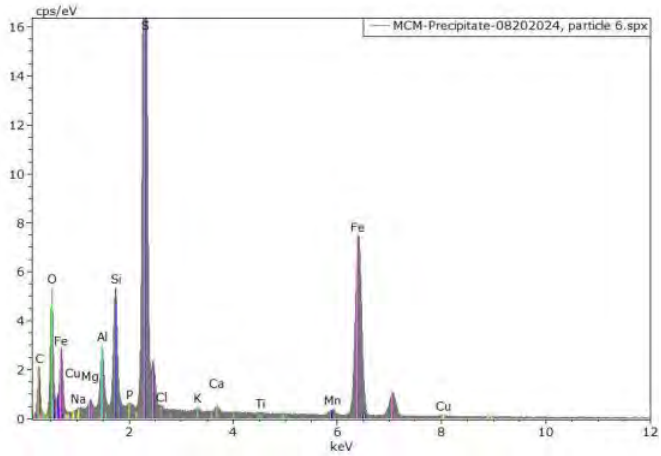
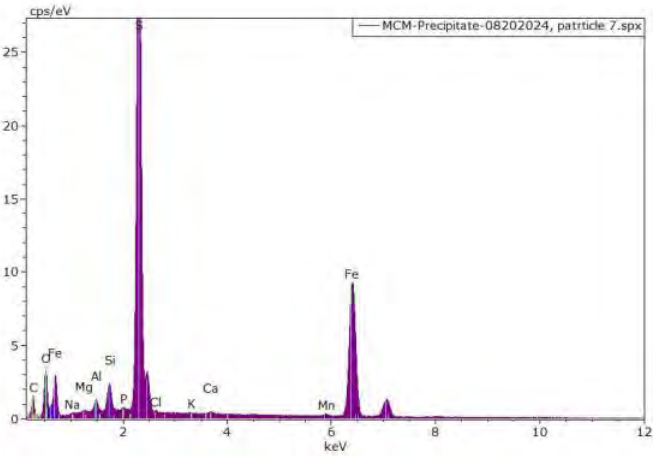
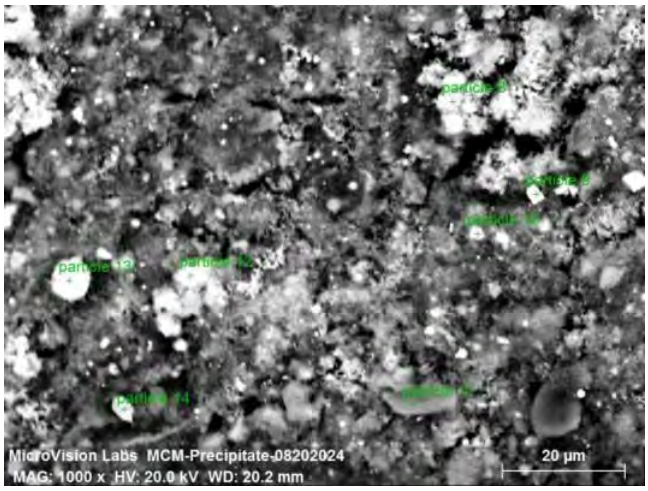
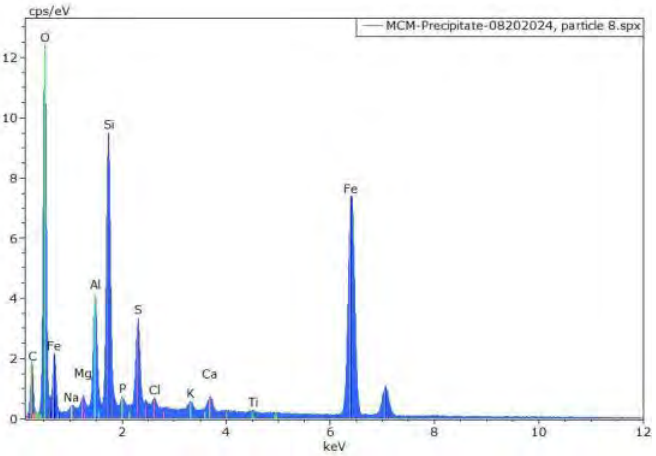
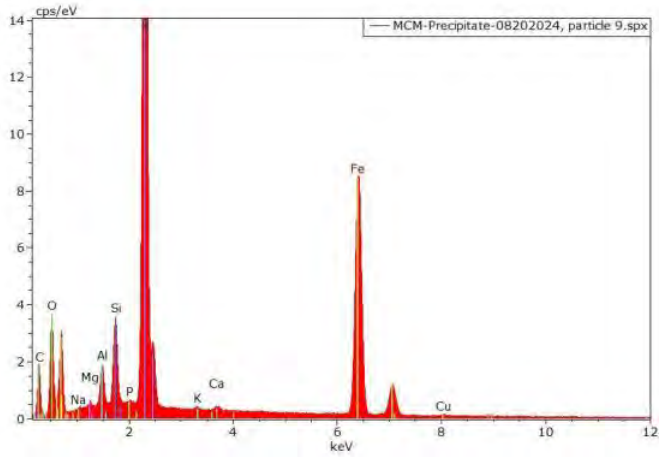
Phone: (978) 250-9909 Fax: (978) 250-9901 Email: Sales@MicroVisionLabs.com
www.MicroVisionLabs.com

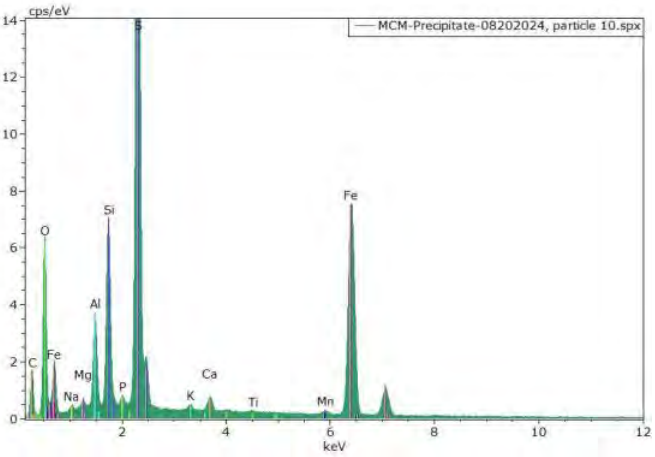












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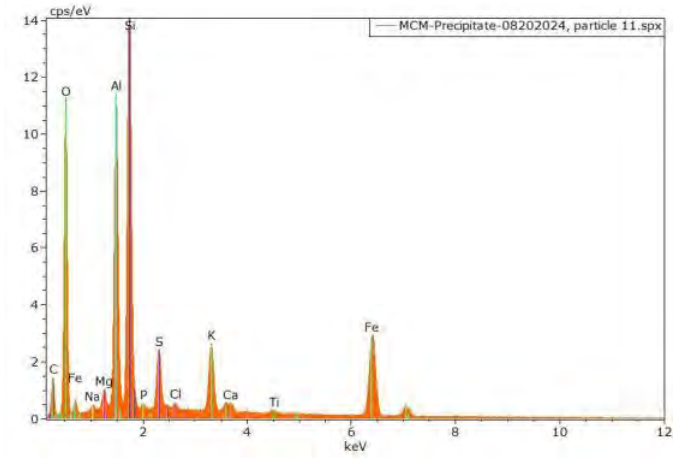

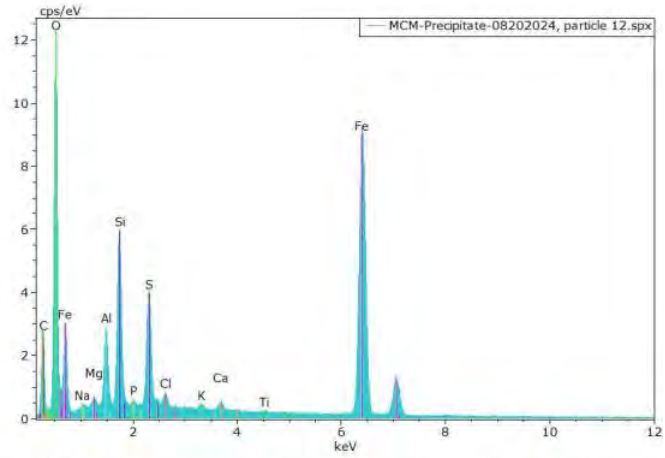

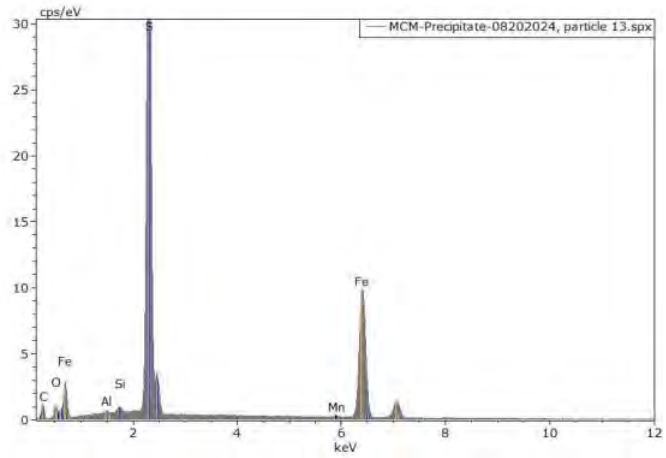

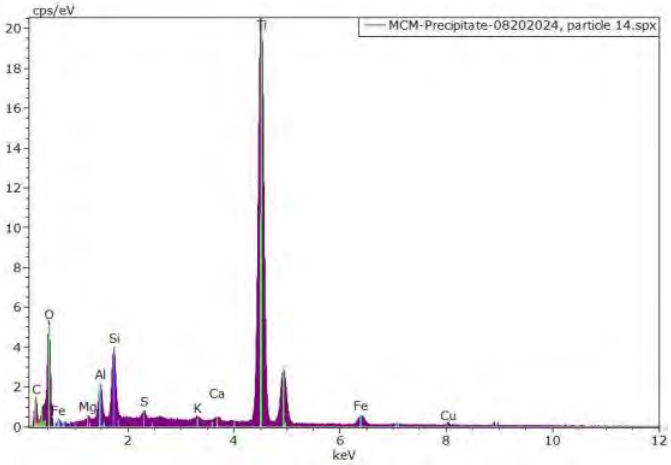

Summary:

Arsenic was not detected in the particles examined from this sample. Many particles contained sulfur and iron. Iron was detected in every examined particle.

Please let us know if you have any questions or if there is anything else we can do for you.

Sincerely,

Denise Weidler
Analytical Microscopist

Reviewed by: HK

ISO/IEC 17025:2017 Accredited
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Phone: (978) 250-9909 Fax: (978) 250-9901 Email: Sales@MicroVisionLabs.com
www.MicroVisionLabs.com

MICROVISION LABS, INC.

Chain Of Custody

MicroVision Labs Job#: 16730

Client Information

Client: Southern Company Services

Billing Address:
241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Phone: 518-250-7389

Email: see below

Project Information

Project Name: Plant McManus Injection Pilot

Project Location: Brunswick, GA

Project Number: MCM-CCR-CA-20240812

Project Manager: Kristen Juriko

PO#:

Requested Analyses

Sample ID	Collected Date	Sampler's Initials	Coal Ash Test	Lead Paint Chips Analysis	SEM/EDS	Micro-FTIR	X-Ray Imaging	Micro-XRF	PLM/Light Microscopy	Soot ID	Unknown Material ID	Polished Cross Section	Membrane Autopsy	Particle Size Analysis	Other
1) MCM-PRECIPITATE-08202024	8/20/24	RS			X				X						
2)															
3)															
4)															
5)															
6)															
7)															
8)															
9)															
10)															

Relinquished By: Date/Time 8/22/24 1600 **Received By:** Date/Time 8/23/24 1105

Turn Around Time and Notes:

Email results to knjurink@southernco.com; kathryn.farris@arcadis.com

SEM BSE/SE and EDS (average composition), evaluate for presence of arsenic, and other metals and sulfur

List any known Hazardous Materials:

Analytical Report Requested: YES / NO

MicroVision Laboratories, Inc.
187 Billerica Road, Chelmsford, MA 01824
Phone 978-250-9909 Fax 978-250-9901
microvisionlabs.com

Arcadis U.S., Inc.
2839 Paces Ferry Road, Suite 1000
Atlanta
GA 30339
Phone: 770 431 8666
Fax:
www.arcadis.com

APPENDIX C

GROUNDWATER LABORATORY ANALYTICAL, DATA VALIDATION AND FIELD SAMPLING REPORTS

ENSAFE
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GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

May 08, 2025

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus 34-Week Sampling April 2025 Plant McManus 34-Week Sampling April 2025
Work Order: 720062

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on April 17, 2025. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 720062 in the left-hand footer of the data report. This package has been updated to exclude the previously entered limits and report Appendix IV Metals using GEL PQLs.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
720062001	MCM-INW-01	Ground Water	04/15/25 14:07	04/17/25 09:15
720062002	MCM-MCM-06	Ground Water	04/16/25 11:41	04/17/25 09:15
720062003	MCM-PT-01	Ground Water	04/15/25 10:39	04/17/25 09:15
720062004	MCM-PT-02	Ground Water	04/16/25 09:43	04/17/25 09:15
720062005	MCM-PT-03	Ground Water	04/16/25 12:16	04/17/25 09:15
720062006	MCM-DR-01	Ground Water	04/15/25 13:55	04/17/25 09:15
720062007	MCM-DR-02	Ground Water	04/16/25 10:25	04/17/25 09:15
720062008	MCM-DR-03	Ground Water	04/15/25 11:08	04/17/25 09:15
720062009	MCM-AP1-FD-01	Ground Water	04/16/25 12:00	04/17/25 09:15
720062010	MCM-AP1-FB-01	Water	04/15/25 15:47	04/17/25 09:15
720062011	MCM-AP1-EB-01	Water	04/15/25 15:57	04/17/25 09:15
720062012	MCM-INW-01	Ground Water	04/15/25 14:07	04/17/25 09:15
720062013	MCM-MCM-06	Ground Water	04/16/25 11:41	04/17/25 09:15
720062014	MCM-PT-01	Ground Water	04/15/25 10:39	04/17/25 09:15
720062015	MCM-PT-02	Ground Water	04/16/25 09:43	04/17/25 09:15

720062016	MCM-PT-03	Ground Water	04/16/25 12:16	04/17/25 09:15
720062017	MCM-DR-01	Ground Water	04/15/25 13:55	04/17/25 09:15
720062018	MCM-DR-02	Ground Water	04/16/25 10:25	04/17/25 09:15
720062019	MCM-DR-03	Ground Water	04/15/25 11:08	04/17/25 09:15
720062020	MCM-AP1-FD-01	Ground Water	04/16/25 12:00	04/17/25 09:15

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

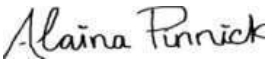
Method	Run Date ID
SW846 3005A	26-APR-2025
SW846 7470A Prep	28-APR-2025

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	21-APR-2025
EPA 300.0	22-APR-2025
EPA 300.0	23-APR-2025
SM 2320B	29-APR-2025
SM 2320B	30-APR-2025
SM 2540C	22-APR-2025
SW846 3005A/6020B	29-APR-2025
SW846 7470A	29-APR-2025

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,



Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 720062 GEL Work Order: 720062

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by Alaina Pinnick

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 8, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-INW-01
Sample ID: 720062001
Matrix: WG
Collect Date: 15-APR-25 14:07
Receive Date: 17-APR-25
Collector: Client

Project: GPCC00625
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	04/21/25	2115	2784798	1
Chloride		6160	67.0	200	mg/L		1000	CWW	04/21/25	2147	2784798	2
Sulfate		747	133	400	mg/L		1000					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	0953	2788234	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1857	2786042	4
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium		0.581	0.00335	0.0200	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5					
Boron		0.844	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		207	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.00500	mg/L	1.00	5					
Iron		4.17	0.165	0.500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Lithium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Manganese		0.0484	0.00500	0.0250	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		113	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Sodium		3440	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1510	2786042	5
Magnesium		433	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1704	2786042	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		11100	23.8	100	mg/L			SC1	04/22/25	1404	2784983	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		194	0.725	2.00	mg/L			BR2	04/29/25	1235	2789240	8
Bicarbonate alkalinity (CaCO3)		194	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 8, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-INW-01	Project:	GPCC00625
Sample ID:	720062001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-MCM-06	Project:	GPCC00625
Sample ID:	720062002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 11:41		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.349	0.165	0.500	mg/L		5	CWW	04/21/25	2219	2784798	1
Sulfate		661	66.5	200	mg/L		500	CWW	04/21/25	2250	2784798	2
Chloride		4870	67.0	200	mg/L		1000	CWW	04/23/25	0151	2784798	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1004	2788234	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium		0.224	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2133	2786042	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0426	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0545	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.287	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1916	2786042	6
Arsenic		0.0641	0.0100	0.0250	mg/L	1.00	5					
Boron		0.708	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		211	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		95.9	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2770	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1529	2786042	7
Magnesium		374	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1723	2786042	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9150	23.8	100	mg/L			SC1	04/22/25	1020	2784985	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		220	0.725	2.00	mg/L			HH2	04/30/25	1026	2789857	10
Bicarbonate alkalinity (CaCO3)		220	0.725	2.00	mg/L							

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-MCM-06	Project:	GPCC00625
Sample ID:	720062002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 8, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-PT-01
Sample ID: 720062003
Matrix: WG
Collect Date: 15-APR-25 10:39
Receive Date: 17-APR-25
Collector: Client

Project: GPCC00625
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.494	0.330	1.00	mg/L		10	CWW	04/21/25	2322	2784798	1
Chloride		4610	33.5	100	mg/L		500	CWW	04/21/25	2354	2784798	2
Sulfate		473	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1006	2788234	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium		0.482	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2137	2786042	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0482	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0332	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.251	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1920	2786042	5
Arsenic	J	0.0215	0.0100	0.0250	mg/L	1.00	5					
Boron		0.854	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		168	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		86.1	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2470	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1540	2786042	6
Magnesium		311	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1726	2786042	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8390	23.8	100	mg/L			SC1	04/22/25	1020	2784985	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		304	0.725	2.00	mg/L			BR2	04/29/25	1238	2789240	9
Bicarbonate alkalinity (CaCO3)		304	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-01	Project:	GPCC00625
Sample ID:	720062003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-02	Project:	GPCC00625
Sample ID:	720062004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 09:43		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	04/22/25	0026	2784798	1
Sulfate		590	66.5	200	mg/L		500	CWW	04/22/25	0058	2784798	2
Chloride		4950	67.0	200	mg/L		1000	CWW	04/23/25	0223	2784798	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1008	2788234	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium		0.581	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2140	2786042	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		3.80	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0231	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.221	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1924	2786042	6
Arsenic	J	0.0146	0.0100	0.0250	mg/L	1.00	5					
Boron		0.693	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		196	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		92.7	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2750	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1544	2786042	7
Magnesium		361	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1730	2786042	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9180	23.8	100	mg/L			SC1	04/22/25	1020	2784985	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		220	0.725	2.00	mg/L			HH2	04/30/25	1029	2789857	10
Bicarbonate alkalinity (CaCO3)		220	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-02	Project:	GPCC00625
Sample ID:	720062004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-03	Project:	GPCC00625
Sample ID:	720062005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 12:16		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.506	0.330	1.00	mg/L		10	CWW	04/22/25	0130	2784798	1
Chloride		4570	33.5	100	mg/L		500	CWW	04/22/25	0201	2784798	2
Sulfate		498	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1009	2788234	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium		0.275	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2144	2786042	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0561	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0398	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.112	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1928	2786042	5
Arsenic		0.0450	0.0100	0.0250	mg/L	1.00	5					
Boron		0.775	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		168	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		93.7	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2400	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1548	2786042	6
Magnesium		338	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1734	2786042	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8130	23.8	100	mg/L			SC1	04/22/25	1020	2784985	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		233	0.725	2.00	mg/L			HH2	04/30/25	1031	2789857	9
Bicarbonate alkalinity (CaCO3)		233	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-03	Project:	GPCC00625
Sample ID:	720062005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-DR-01
Sample ID: 720062006
Matrix: WG
Collect Date: 15-APR-25 13:55
Receive Date: 17-APR-25
Collector: Client

Project: GPCC00625
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.533	0.330	1.00	mg/L		10	CWW	04/22/25	0337	2784798	1
Chloride		4210	33.5	100	mg/L		500	CWW	04/22/25	0409	2784798	2
Sulfate		496	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1011	2788234	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium		0.307	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2148	2786042	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0394	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.165	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1931	2786042	5
Arsenic		0.0360	0.0100	0.0250	mg/L	1.00	5					
Boron		0.815	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		152	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		86.3	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2280	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1552	2786042	6
Magnesium		292	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1738	2786042	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		7470	23.8	100	mg/L			SC1	04/22/25	1020	2784985	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		278	0.725	2.00	mg/L			BR2	04/29/25	1242	2789240	9
Bicarbonate alkalinity (CaCO3)		278	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-01	Project:	GPCC00625
Sample ID:	720062006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-DR-02
Sample ID: 720062007
Matrix: WG
Collect Date: 16-APR-25 10:25
Receive Date: 17-APR-25
Collector: Client

Project: GPCC00625
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.657	0.330	1.00	mg/L		10	CWW	04/22/25	0441	2784798	1
Chloride		3560	33.5	100	mg/L		500	CWW	04/22/25	0512	2784798	2
Sulfate		360	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1012	2788234	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	RM4	04/29/25	2152	2786042	4
Barium		0.0807	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.495	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0483	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.125	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000880	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic		0.104	0.0100	0.0250	mg/L	1.00	5	RM4	04/29/25	1943	2786042	5
Boron		0.804	0.0260	0.0750	mg/L	1.00	5					
Calcium		145	0.400	1.00	mg/L	1.00	5					
Potassium		76.8	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2010	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1555	2786042	6
Magnesium		261	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1749	2786042	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		6310	23.8	100	mg/L			SC1	04/22/25	1020	2784985	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		337	0.725	2.00	mg/L			HH2	04/30/25	1033	2789857	9
Bicarbonate alkalinity (CaCO3)		337	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-02	Project:	GPCC00625
Sample ID:	720062007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-DR-03
Sample ID: 720062008
Matrix: WG
Collect Date: 15-APR-25 11:08
Receive Date: 17-APR-25
Collector: Client

Project: GPCC00625
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.805	0.330	1.00	mg/L		10	CWW	04/22/25	0544	2784798	1
Chloride		2450	33.5	100	mg/L		500	CWW	04/22/25	0616	2784798	2
Sulfate		259	66.5	200	mg/L		500					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1014	2788234	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	RM4	04/29/25	2051	2786042	4
Arsenic		0.00523	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0383	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		11.5	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0436	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.117	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000348	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.955	0.0260	0.0750	mg/L	1.00	5	RM4	04/29/25	1947	2786042	5
Calcium		96.1	0.400	1.00	mg/L	1.00	5					
Magnesium		157	0.0500	0.150	mg/L	1.00	5					
Potassium		59.2	0.400	1.50	mg/L	1.00	5					
Sodium		1480	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1559	2786042	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4780	23.8	100	mg/L			SC1	04/22/25	1020	2784985	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		269	0.725	2.00	mg/L			BR2	04/29/25	1249	2789240	8
Bicarbonate alkalinity (CaCO3)		269	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-03	Project:	GPCC00625
Sample ID:	720062008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	
8	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-AP1-FD-01
Sample ID: 720062009
Matrix: WG
Collect Date: 16-APR-25 12:00
Receive Date: 17-APR-25
Collector: Client

Project: GPCC00625
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.330	1.00	mg/L		10	CWW	04/22/25	0648	2784798	1
Sulfate		571	66.5	200	mg/L		500	CWW	04/22/25	0720	2784798	2
Chloride		4790	67.0	200	mg/L		1000	CWW	04/23/25	0255	2784798	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1016	2788234	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Barium		0.582	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2156	2786042	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		4.01	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0237	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.227	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	1950	2786042	6
Arsenic	J	0.0150	0.0100	0.0250	mg/L	1.00	5					
Boron		0.717	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		203	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		94.1	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2810	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1603	2786042	7
Magnesium		367	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1757	2786042	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9580	23.8	100	mg/L			SC1	04/22/25	1020	2784985	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		220	0.725	2.00	mg/L			HH2	04/30/25	1035	2789857	10
Bicarbonate alkalinity (CaCO3)		220	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00625
Sample ID:	720062009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SW846 3005A/6020B	
9	SM 2540C	
10	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-AP1-FB-01
Sample ID: 720062010
Matrix: WQ
Collect Date: 15-APR-25 15:47
Receive Date: 17-APR-25
Collector: Client

Project: GPCC00625
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	04/22/25	0752	2784798	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1020	2788234	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	RM4	04/29/25	1502	2786042	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			SC1	04/22/25	1020	2784985	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			BR2	04/29/25	1253	2789240	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00625
Sample ID:	720062010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 8, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-AP1-EB-01
Sample ID: 720062011
Matrix: WQ
Collect Date: 15-APR-25 15:57
Receive Date: 17-APR-25
Collector: Client

Project: GPCC00625
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	04/22/25	0824	2784798	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1022	2788234	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	RM4	04/29/25	1506	2786042	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			SC1	04/22/25	1020	2784985	4
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			BR2	04/29/25	1255	2789240	5
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

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Certificate of Analysis

Report Date: May 8, 2025

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID: MCM-AP1-EB-01 Project: GPCC00625
Sample ID: 720062011 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SM 2540C	
5	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-INW-01	Project:	GPCC00625
Sample ID:	720062012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-APR-25 14:07		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1024	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	RM4	04/29/25	2159	2786042	2
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		3.26	0.0330	0.100	mg/L	1.00	1					
Lithium	J	0.00476	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.0437	0.00100	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2002	2786042	3
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium		0.576	0.00335	0.0200	mg/L	1.00	5					
Boron		0.820	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		199	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		110	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Sodium		3360	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1614	2786042	4
Magnesium		421	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1808	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-INW-01	Project:	GPCC00625
Sample ID:	720062012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-MCM-06	Project:	GPCC00625
Sample ID:	720062013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 11:41		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1025	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium		0.230	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2211	2786042	2
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0360	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0566	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.292	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2006	2786042	3
Arsenic		0.0684	0.0100	0.0250	mg/L	1.00	5					
Boron		0.717	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		214	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		97.0	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2830	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1626	2786042	4
Magnesium		386	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1812	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-MCM-06	Project:	GPCC00625
Sample ID:	720062013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-01	Project:	GPCC00625
Sample ID:	720062014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-APR-25 10:39		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1027	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium		0.505	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2215	2786042	2
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0403	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0348	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.262	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2009	2786042	3
Arsenic	J	0.0215	0.0100	0.0250	mg/L	1.00	5					
Boron		0.854	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		173	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		88.3	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2630	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1629	2786042	4
Magnesium		323	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1816	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-01	Project:	GPCC00625
Sample ID:	720062014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-02	Project:	GPCC00625
Sample ID:	720062015	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 09:43		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1028	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium		0.646	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2218	2786042	2
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		4.02	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0237	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.227	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2013	2786042	3
Arsenic	J	0.0153	0.0100	0.0250	mg/L	1.00	5					
Boron		0.735	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		204	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		95.7	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2880	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1633	2786042	4
Magnesium		373	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1819	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-02	Project:	GPCC00625
Sample ID:	720062015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-03	Project:	GPCC00625
Sample ID:	720062016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 12:16		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1030	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium		0.275	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2222	2786042	2
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0450	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0383	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.111	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2017	2786042	3
Arsenic		0.0510	0.0100	0.0250	mg/L	1.00	5					
Boron		0.773	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		170	0.400	1.00	mg/L	1.00	5					
Molybdenum	J	0.00113	0.00100	0.00500	mg/L	1.00	5					
Potassium		93.9	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2420	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1637	2786042	4
Magnesium		334	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1823	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-PT-03	Project:	GPCC00625
Sample ID:	720062016	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-01	Project:	GPCC00625
Sample ID:	720062017	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	15-APR-25 13:55		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1032	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium		0.315	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2226	2786042	2
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0407	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.169	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2028	2786042	3
Arsenic		0.0425	0.0100	0.0250	mg/L	1.00	5					
Boron		0.802	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		157	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		88.1	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2380	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1641	2786042	4
Magnesium		301	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1835	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-01	Project:	GPCC00625
Sample ID:	720062017	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-02	Project:	GPCC00625
Sample ID:	720062018	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 10:25		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1033	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium		0.0854	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2230	2786042	2
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron	J	0.0724	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0502	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.128	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2032	2786042	3
Arsenic		0.120	0.0100	0.0250	mg/L	1.00	5					
Boron		0.832	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		149	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		78.5	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2070	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1645	2786042	4
Magnesium		265	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1838	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-02	Project:	GPCC00625
Sample ID:	720062018	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-03	Project:	GPCC00625
Sample ID:	720062019	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	15-APR-25 11:08		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1035	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	RM4	04/29/25	2055	2786042	2
Arsenic	J	0.00453	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0364	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		7.94	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0408	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.110	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000270	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.925	0.0260	0.0750	mg/L	1.00	5	RM4	04/29/25	2036	2786042	3
Calcium		93.4	0.400	1.00	mg/L	1.00	5					
Magnesium		154	0.0500	0.150	mg/L	1.00	5					
Potassium		58.1	0.400	1.50	mg/L	1.00	5					
Sodium		1460	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1648	2786042	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	

Notes:

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-DR-03	Project:	GPCC00625
Sample ID:	720062019	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00625
Sample ID:	720062020	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	16-APR-25 12:00		
Receive Date:	17-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Dissolved Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/29/25	1040	2788234	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals "As Received"												
Barium		0.604	0.000670	0.00400	mg/L	1.00	1	RM4	04/29/25	2234	2786042	2
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		3.71	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0230	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.216	0.00100	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	RM4	04/29/25	2040	2786042	3
Arsenic	J	0.0148	0.0100	0.0250	mg/L	1.00	5					
Boron		0.711	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		195	0.400	1.00	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Potassium		90.3	0.400	1.50	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Sodium		2780	8.00	25.0	mg/L	1.00	100	RM4	04/29/25	1652	2786042	4
Magnesium		356	0.100	0.300	mg/L	1.00	10	RM4	04/29/25	1846	2786042	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/28/25	1045	2788233
SW846 3005A	ICP-MS 3005A PREP	BB2	04/26/25	1325	2786041

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7470A	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	

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Certificate of Analysis

Report Date: May 8, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus 34-Week Sampling April 2025Plant McManus 34-Week Sampling April 2025

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00625
Sample ID:	720062020	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: May 8, 2025

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography												
Batch 2784798												
QC1206077525 720146001 DUP												
Chloride		3.05		3.04	mg/L	0.522			(0%-20%)	CWW	04/23/25	12:19
Fluoride		0.276		0.280	mg/L	1.37	^		(+/-0.100)			
Sulfate		2.07		2.07	mg/L	0.125			(0%-20%)			
QC1206077522 LCS												
Chloride	5.00			4.68	mg/L			93.5	(90%-110%)		04/21/25	15:25
Fluoride	2.50			2.33	mg/L			93.1	(90%-110%)			
Sulfate	10.0			9.53	mg/L			95.3	(90%-110%)			
QC1206077521 MB												
Chloride			U	ND	mg/L						04/21/25	14:53
Fluoride			U	ND	mg/L							
Sulfate			U	ND	mg/L							
QC1206077526 720146001 PS												
Chloride	5.00	3.05		7.67	mg/L			92.3	(90%-110%)		04/23/25	12:51
Fluoride	2.50	0.276		2.63	mg/L			94.1	(90%-110%)			
Sulfate	10.0	2.07		11.6	mg/L			94.8	(90%-110%)			

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2786042										
QC1206080511 LCS										
Antimony	0.0500			0.0470	mg/L		94	(80%-120%)	RM4	04/29/25 14:58
Arsenic	0.0500			0.0486	mg/L		97.1	(80%-120%)		
Barium	0.0500			0.0483	mg/L		96.6	(80%-120%)		
Beryllium	0.0500			0.0543	mg/L		109	(80%-120%)		
Boron	0.100			0.0989	mg/L		98.9	(80%-120%)		
Cadmium	0.0500			0.0488	mg/L		97.6	(80%-120%)		
Calcium	2.00			1.96	mg/L		97.8	(80%-120%)		
Chromium	0.0500			0.0483	mg/L		96.7	(80%-120%)		
Cobalt	0.0500			0.0473	mg/L		94.6	(80%-120%)		
Iron	2.00			1.88	mg/L		93.9	(80%-120%)		
Lead	0.0500			0.0482	mg/L		96.4	(80%-120%)		
Lithium	0.0500			0.0499	mg/L		99.9	(80%-120%)		
Magnesium	2.00			2.00	mg/L		100	(80%-120%)		
Manganese	0.0500			0.0471	mg/L		94.3	(80%-120%)		

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2786042										
Molybdenum	0.0500			0.0489	mg/L		97.7	(80%-120%)	RM4	04/29/25 14:58
Potassium	2.00			1.96	mg/L		98	(80%-120%)		
Selenium	0.0500			0.0478	mg/L		95.5	(80%-120%)		
Sodium	2.00			2.01	mg/L		101	(80%-120%)		
Thallium	0.0500			0.0475	mg/L		94.9	(80%-120%)		
QC1206080510 MB										
Antimony			U	ND	mg/L					04/29/25 14:55
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					
Cobalt			U	ND	mg/L					

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2786042										
Iron			U	ND	mg/L				RM4	04/29/25 14:55
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					
Manganese			U	ND	mg/L					
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					
Selenium			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					
QC1206080512 720062001 MS										
Antimony	0.0500	U	ND	0.0454	mg/L		90.1	(75%-125%)		04/29/25 19:01
Arsenic	0.0500	U	ND	0.0554	mg/L		99.3	(75%-125%)		
Barium	0.0500		0.581	0.612	mg/L		N/A	(75%-125%)		
Beryllium	0.0500	U	ND	0.0473	mg/L		94.6	(75%-125%)		

QC Summary

Workorder: **720062**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2786042											
Boron	0.100		0.844		0.904	mg/L		N/A	(75%-125%)	RM4	04/29/25 19:01
Cadmium	0.0500	U	ND		0.0432	mg/L		86.4	(75%-125%)		
Calcium	2.00		207		199	mg/L		N/A	(75%-125%)		
Chromium	0.0500	U	ND		0.0476	mg/L		92.1	(75%-125%)		
Cobalt	0.0500	U	ND		0.0442	mg/L		88.2	(75%-125%)		
Iron	2.00		4.17		5.76	mg/L		79.7	(75%-125%)		
Lead	0.0500	U	ND		0.0427	mg/L		85.3	(75%-125%)		
Lithium	0.0500	U	ND		0.0535	mg/L		96.8	(75%-125%)		
Magnesium	2.00		433		429	mg/L		N/A	(75%-125%)		04/29/25 17:07
Manganese	0.0500		0.0484		0.0911	mg/L		85.5	(75%-125%)		04/29/25 19:01
Molybdenum	0.0500	U	ND		0.0537	mg/L		106	(75%-125%)		
Potassium	2.00		113		112	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0427	mg/L		80.2	(75%-125%)		
Sodium	2.00		3440		3350	mg/L		N/A	(75%-125%)		04/29/25 15:14

QC Summary

Workorder: **720062**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2786042												
Thallium	0.0500	U	ND		0.0433	mg/L		86.5	(75%-125%)	RM4	04/29/25	19:01
QC1206080513 720062001 MSD												
Antimony	0.0500	U	ND		0.0465	mg/L	2.25	92.1	(0%-20%)		04/29/25	19:05
Arsenic	0.0500	U	ND		0.0555	mg/L	0.0811	99.4	(0%-20%)			
Barium	0.0500		0.581		0.628	mg/L	2.67	N/A	(0%-20%)			
Beryllium	0.0500	U	ND		0.0465	mg/L	1.75	92.9	(0%-20%)			
Boron	0.100		0.844		0.917	mg/L	1.46	N/A	(0%-20%)			
Cadmium	0.0500	U	ND		0.0433	mg/L	0.266	86.6	(0%-20%)			
Calcium	2.00		207		204	mg/L	2.4	N/A	(0%-20%)			
Chromium	0.0500	U	ND		0.0481	mg/L	1.08	93.1	(0%-20%)			
Cobalt	0.0500	U	ND		0.0440	mg/L	0.295	87.9	(0%-20%)			
Iron	2.00		4.17		5.93	mg/L	2.8	87.8	(0%-20%)			
Lead	0.0500	U	ND		0.0424	mg/L	0.705	84.7	(0%-20%)			
Lithium	0.0500	U	ND		0.0532	mg/L	0.703	96	(0%-20%)			
Magnesium	2.00		433		439	mg/L	2.09	N/A	(0%-20%)		04/29/25	17:11

QC Summary

Workorder: **720062**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2786042											
Manganese	0.0500		0.0484		0.0920	mg/L	0.994	87.4	(0%-20%)	RM4	04/29/25 19:05
Molybdenum	0.0500	U	ND		0.0551	mg/L	2.44	109	(0%-20%)		
Potassium	2.00		113		114	mg/L	1.44	N/A	(0%-20%)		
Selenium	0.0500	U	ND		0.0407	mg/L	4.93	76	(0%-20%)		
Sodium	2.00		3440		3390	mg/L	1.22	N/A	(0%-20%)		04/29/25 15:17
Thallium	0.0500	U	ND		0.0432	mg/L	0.15	86.4	(0%-20%)		04/29/25 19:05
QC1206080515 720062001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		04/29/25 19:12
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			116		24.2	ug/L	3.93		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			169		41.8	ug/L	23.8		(0%-20%)		
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Calcium			41500		8340	ug/L	.446		(0%-20%)		
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2786042										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	RM4	04/29/25 19:12
Iron		834		179	ug/L	7.21		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		43300		9000	ug/L	3.92		(0%-20%)		04/29/25 17:19
Manganese		9.67	J	2.12	ug/L	9.36		(0%-20%)		04/29/25 19:12
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Potassium		22600		4480	ug/L	1.03		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		34400		6940	ug/L	.892		(0%-20%)		04/29/25 15:25
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		04/29/25 19:12
Metals Analysis-Mercury										
Batch 2788234										
QC1206085328 720062001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	04/29/25 09:54
QC1206085327 LCS										
Mercury	0.00200			0.00208	mg/L		104	(80%-120%)		04/29/25 09:51

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2788234										
QC1206085326 MB										
Mercury			U	ND	mg/L				JP2	04/29/25 09:50
QC1206085329 720062001 MS										
Mercury	0.00200	U ND		0.00188	mg/L		94.1	(75%-125%)		04/29/25 09:56
QC1206085331 720062001 SDILT										
Mercury		U ND	U	ND	ug/L	N/A		(0%-10%)		04/29/25 10:03
Solids Analysis										
Batch 2784983										
QC1206077927 719622001 DUP										
Total Dissolved Solids		1200		1220	mg/L	1.65		(0%-5%)	SC1	04/22/25 14:04
QC1206077926 LCS										
Total Dissolved Solids	300			292	mg/L		97.3	(95%-105%)		04/22/25 14:04
QC1206077925 MB										
Total Dissolved Solids			U	ND	mg/L					04/22/25 14:04
Batch 2784985										
QC1206077944 719921004 DUP										
Total Dissolved Solids		231		229	mg/L	0.87		(0%-5%)	SC1	04/22/25 10:20
QC1206077943 LCS										
Total Dissolved Solids	300			299	mg/L		99.7	(95%-105%)		04/22/25 10:20
QC1206077942 MB										
Total Dissolved Solids			U	ND	mg/L					04/22/25 10:20

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2789240										
QC1206087793 LCS										
Alkalinity, Total as CaCO3	50.0			53.6	mg/L		107	(90%-110%)	BR2	04/29/25 12:27
QC1206087794 LCS										
Alkalinity, Total as CaCO3	15.0			15.5	mg/L		103	(90%-110%)		04/29/25 12:31
QC1206087795 LCSD										
Alkalinity, Total as CaCO3	50.0			53.8	mg/L	0.372	108	(0%-20%)		04/29/25 12:35
QC1206087796 LCSD										
Alkalinity, Total as CaCO3	15.0			15.5	mg/L	0	103	(0%-20%)		04/29/25 12:35
Batch 2789857										
QC1206089128 719818004 DUP										
Alkalinity, Total as CaCO3		154		154	mg/L	0.0651		(0%-20%)	HH2	04/30/25 10:23
Bicarbonate alkalinity (CaCO3)		154		154	mg/L	0.0651		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1206089132 LCS										
Alkalinity, Total as CaCO3	50.0			52.7	mg/L		105	(90%-110%)		04/30/25 10:20
QC1206089129 719818004 MS										
Alkalinity, Total as CaCO3	50.0	154		198	mg/L		89	(80%-120%)		04/30/25 10:25

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits

QC Summary

Workorder: **720062**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
x	Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 720062

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 37
Analytical Batch: 2786042

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2786041

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062001	MCM-INW-01
720062002	MCM-MCM-06
720062003	MCM-PT-01
720062004	MCM-PT-02
720062005	MCM-PT-03
720062006	MCM-DR-01
720062007	MCM-DR-02
720062008	MCM-DR-03
720062009	MCM-AP1-FD-01
720062010	MCM-AP1-FB-01
720062011	MCM-AP1-EB-01
720062012	MCM-INW-01
720062013	MCM-MCM-06
720062014	MCM-PT-01
720062015	MCM-PT-02
720062016	MCM-PT-03
720062017	MCM-DR-01
720062018	MCM-DR-02
720062019	MCM-DR-03
720062020	MCM-AP1-FD-01
1206080510	Method Blank (MB)**ICP-MS**
1206080511	Laboratory Control Sample (LCS)
1206080515	720062001(MCM-INW-01L) Serial Dilution (SD)
1206080512	720062001(MCM-INW-01S) Matrix Spike (MS)
1206080513	720062001(MCM-INW-01SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 720062001 (MCM-INW-01), 720062002 (MCM-MCM-06), 720062003 (MCM-PT-01), 720062004 (MCM-PT-02), 720062005 (MCM-PT-03), 720062006 (MCM-DR-01), 720062007 (MCM-DR-02), 720062008 (MCM-DR-03), 720062009 (MCM-AP1-FD-01), 720062012 (MCM-INW-01), 720062013 (MCM-MCM-06), 720062014 (MCM-PT-01), 720062015 (MCM-PT-02), 720062016 (MCM-PT-03), 720062017 (MCM-DR-01), 720062018 (MCM-DR-02), 720062019 (MCM-DR-03) and 720062020 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 720062001 (MCM-INW-01), 720062002 (MCM-MCM-06), 720062003 (MCM-PT-01), 720062004 (MCM-PT-02), 720062005 (MCM-PT-03), 720062006 (MCM-DR-01), 720062007 (MCM-DR-02), 720062009 (MCM-AP1-FD-01), 720062012 (MCM-INW-01), 720062013 (MCM-MCM-06), 720062014 (MCM-PT-01), 720062015 (MCM-PT-02), 720062016 (MCM-PT-03), 720062017 (MCM-DR-01), 720062018 (MCM-DR-02) and 720062020 (MCM-AP1-FD-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	720062									
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**012**
Antimony	5X	5X	5X	5X	5X	5X	1X	1X	5X	5X
Arsenic	5X	5X	5X	5X	5X	5X	5X	1X	5X	5X
Barium	5X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Beryllium	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Boron	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	5X	5X	5X	5X	5X	1X	1X	5X	5X
Calcium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Chromium	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Cobalt	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Iron	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Lead	5X	1X	1X	1X	1X	1X	1X	1X	1X	5X
Lithium	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Magnesium	10X	10X	10X	10X	10X	10X	10X	5X	10X	10X
Manganese	5X	1X	1X	1X	1X	1X	1X	1X	1X	1X
Molybdenum	5X	5X	5X	5X	5X	5X	1X	1X	5X	5X
Potassium	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Selenium	5X	5X	5X	5X	5X	5X	5X	1X	5X	5X
Sodium	100X	100X	100X	100X	100X	100X	100X	100X	100X	100X
Thallium	5X	1X	1X	1X	1X	1X	1X	1X	1X	5X

Analyte	720062							
	013	**014**	**015**	**016**	**017**	**018**	**019**	**020**
Antimony	5X	5X	5X	5X	5X	5X	1X	5X
Arsenic	5X	5X	5X	5X	5X	5X	1X	5X
Boron	5X	5X	5X	5X	5X	5X	5X	5X
Cadmium	5X	5X	5X	5X	5X	5X	1X	5X

Calcium	5X	5X	5X	5X	5X	5X	5X	5X
Magnesium	10X	10X	10X	10X	10X	10X	5X	10X
Molybdenum	5X	5X	5X	5X	5X	5X	1X	5X
Potassium	5X	5X	5X	5X	5X	5X	5X	5X
Selenium	5X	5X	5X	5X	5X	5X	1X	5X
Sodium	100X	100X	100X	100X	100X	100X	100X	100X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 42
Analytical Batch: 2788234

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 42
Preparation Batch: 2788233

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062001	MCM-INW-01
720062002	MCM-MCM-06
720062003	MCM-PT-01
720062004	MCM-PT-02
720062005	MCM-PT-03
720062006	MCM-DR-01
720062007	MCM-DR-02
720062008	MCM-DR-03
720062009	MCM-AP1-FD-01
720062010	MCM-AP1-FB-01
720062011	MCM-AP1-EB-01
720062012	MCM-INW-01
720062013	MCM-MCM-06
720062014	MCM-PT-01
720062015	MCM-PT-02
720062016	MCM-PT-03
720062017	MCM-DR-01
720062018	MCM-DR-02
720062019	MCM-DR-03
720062020	MCM-AP1-FD-01
1206085326	Method Blank (MB)**CVAA**
1206085327	Laboratory Control Sample (LCS)
1206085331	720062001(MCM-INW-01L) Serial Dilution (SD)
1206085328	720062001(MCM-INW-01D) Sample Duplicate (DUP)
1206085329	720062001(MCM-INW-01S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 37
Analytical Batch: 2784798

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062001	MCM-INW-01
720062002	MCM-MCM-06
720062003	MCM-PT-01
720062004	MCM-PT-02
720062005	MCM-PT-03
720062006	MCM-DR-01
720062007	MCM-DR-02
720062008	MCM-DR-03
720062009	MCM-AP1-FD-01
720062010	MCM-AP1-FB-01
720062011	MCM-AP1-EB-01
1206077521	Method Blank (MB)
1206077522	Laboratory Control Sample (LCS)
1206077525	720146001(NonSDG) Sample Duplicate (DUP)
1206077526	720146001(NonSDG) Post Spike (PS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 720062001 (MCM-INW-01), 720062002 (MCM-MCM-06), 720062003 (MCM-PT-01), 720062004 (MCM-PT-02), 720062005 (MCM-PT-03), 720062006 (MCM-DR-01), 720062007 (MCM-DR-02), 720062008 (MCM-DR-03) and 720062009 (MCM-AP1-FD-01) were diluted because target analyte concentrations exceeded the calibration range. Samples 720062001 (MCM-INW-01), 720062002 (MCM-MCM-06), 720062003 (MCM-PT-01), 720062004 (MCM-PT-02), 720062005 (MCM-PT-03), 720062006 (MCM-DR-01), 720062007 (MCM-DR-02), 720062008 (MCM-DR-03) and 720062009 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	720062								
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**
Chloride	1000X	1000X	500X	1000X	500X	500X	500X	500X	1000X
Fluoride	10X	5X	10X	10X	10X	10X	10X	10X	10X
Sulfate	1000X	500X	500X	500X	500X	500X	500X	500X	500X

Sample Re-analysis
Samples and the associated QC were initially analyzed at a dilution based on historical data. Upon review of the data, they were re-analyzed undiluted. 1206077525 (Non SDG 720146001DUP) and 1206077526 (Non SDG 720146001PS).

Miscellaneous Information

Manual Integrations
Samples 1206077525 (Non SDG 720146001DUP) and 1206077526 (Non SDG 720146001PS) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2784983

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062001	MCM-INW-01
1206077925	Method Blank (MB)
1206077926	Laboratory Control Sample (LCS)
1206077927	719622001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the samples for approximate concentration prior to analysis. 1206077927 (Non SDG 719622001DUP) and 720062001 (MCM-INW-01).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2784985

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062002	MCM-MCM-06
720062003	MCM-PT-01
720062004	MCM-PT-02
720062005	MCM-PT-03
720062006	MCM-DR-01

720062007	MCM-DR-02
720062008	MCM-DR-03
720062009	MCM-AP1-FD-01
720062010	MCM-AP1-FB-01
720062011	MCM-AP1-EB-01
1206077942	Method Blank (MB)
1206077943	Laboratory Control Sample (LCS)
1206077944	719921004(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Consecutive Weight Checks
In order to meet consecutive weight check criteria, weight events must be within 0.0005g of each other. After initial weight checks failed this criteria, the analyst performed two additional weight events. After four weight events, the analyst was unable to get the samples to conform to the criteria. The failure to meet weigh back criteria is attributed to the matrix of the samples. 720062009 (MCM-AP1-FD-01).

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to historical information. 720062002 (MCM-MCM-06), 720062003 (MCM-PT-01), 720062004 (MCM-PT-02), 720062005 (MCM-PT-03), 720062006 (MCM-DR-01), 720062007 (MCM-DR-02), 720062008 (MCM-DR-03) and 720062009 (MCM-AP1-FD-01).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2789240

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062001	MCM-INW-01
720062003	MCM-PT-01
720062006	MCM-DR-01
720062008	MCM-DR-03
720062010	MCM-AP1-FB-01
720062011	MCM-AP1-EB-01
1206087793	Laboratory Control Sample (LCS)
1206087794	Laboratory Control Sample (LCS)
1206087795	Laboratory Control Sample Duplicate (LCSD)
1206087796	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)
An LCSD was used in place of matrix QC due to limited sample volume.

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2789857

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
720062002	MCM-MCM-06
720062004	MCM-PT-02
720062005	MCM-PT-03
720062007	MCM-DR-02
720062009	MCM-AP1-FD-01
1206089128	719818004(NonSDG) Sample Duplicate (DUP)
1206089129	719818004(NonSDG) Matrix Spike (MS)
1206089132	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: ***GEL Project Manager: Erin Trent***

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

720062

Client Name: Kristen Jurinko — Phone #

Project/Site Name: Plant McManus 34-Week Sampling April 2025 — Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Natalie Piparo, Jay Siewert (EnSafe) — Send Results To: knjurink@southernco.com; npiparo@ensafe.com; tgodwin@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list (NI)	Dissolved Metals* (6020B) - see list (NI)	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)
MCM-INW-01	04/15/25	1407	G	Y*	WG			5	X	X	X	X	X	Comments: Note: extra sample is required for sample specific QC
MCM-MCM-06	04/16/25	1141	G	Y*	WG			5	X	X	X	X	X	Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl
MCM-PT-01	04/15/25	1039	G	Y*	WG			5	X	X	X	X	X	
MCM-PT-02	04/16/25	0943	G	Y*	WG			5	X	X	X	X	X	
MCM-PT-03	04/16/25	1216	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-01	04/15/25	1355	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-02	04/16/25	1025	G	Y*	WG			5	X	X	X	X	X	
MCM-DR-03	04/15/25	1104	G	Y*	WG			5	X	X	X	X	X	
MCM-AP1-FD-01	04/16/25	—	FD	Y*	WG			5	X	X	X	X	X	
MCM-AP1-FB-01	04/15/25	1547	FB	N	WQ			4	X		X	X	X	

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] EnSafe	4/16/25	1645	1 Fed Ex		
2				2 Cmcmahon	4/17/25	0915
3				3		

TAT Requested: Normal: ___X__ Rush:_____ Specify: _____ (Subject to Surcharge

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20250414**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ___ °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A)** and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

Chain of Custody and Analytical Request

GEL Work Order Number: ***GEL Project Manager: Erin Trent***

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko — Phone #
Project/Site Name: Plant McManus 34-Week Sampling April 2025 — Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Natalie Piparo, Jay Siewert (EnSafe) — Send Results To: knjurink@southernco.com; npiparo@ensafe.com; tgodwin@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Total Metals (6020B) - see list (NI)	Dissolved Metals* (6020B) - see list (NI)	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)	<-- Preservative Type (6)
MCM-AP1-EB-01	04/15/25	1557	EB	N	WQ			4	X		X	X	X	

Comments
Note: extra sample is required for sample specific QC

Metal List - As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] EnSafe	4/16/25	1445	Fed Ex		
2				Cmcmahon	APR 17 2025	0915
3						

TAT Requested: **Normal:** ___X__ **Rush:**_____ **Specify:** _____ **(Subject to Surcharge**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level

Additional Remarks: **Task Code: MCM-CCR-CA-20250414**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 0 °C

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) KNOWN OR POSSIBLE HAZARDS

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Dissolved metals are the only Field Filterd Samples

Plant McManus Performance Monitoring Sampling Week 34							
Task Code: MCM-CCR-CA-20250414							
Location Code/Label	Sample Code	Matrix Code	Total Metals (6020B) [As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl]	Dissolved Metals (6020B) [As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Fe, Pb, Li, Mg, Mn, Hg, Mo, K, Se, Na, Tl]	Cl, F, SO4 (EPA 300)	TDS (SM2540)	Total Alk/Carb/Bicarb (SM2320B)
MCM-INW-01	MCM-INW-01-WG-	WG	X	X	X	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X	X	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X	X	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X	X	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X	X	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X	X	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X	X	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X	X	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X	X	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X		X	X	X
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X		X	X	X
Extra 1			X	X	X	X	X
Extra 2			X	X	X	X	X

** Dissloved samples to be field filtered

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC | SDG/AR/COC/Work Order: 720062 | GEL PM: AAP

Received By: CLM | Date Received at GEL: 4/7/25

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR5-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
287648285286	0°				
287648221469	0°				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): ___ CPM / mR/Hr. Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials SH Date 4/10/25

☐ Continuation Form Required when selected

GL-CHL-SR-001 Rev 8

List of current GEL Certifications as of 08 May 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 4/22/2025 12:18:49 PM

JOB DESCRIPTION

Plant McManus Performance Monitoring 34 Week Apr

JOB NUMBER

680-263582-1

Eurofins Savannah
5102 LaRoche Avenue
Savannah GA 31404

See page two for job notes and contact information.

myEOL

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

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

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: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week Apr

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-263582-1	MCM-INW-01	Water	04/15/25 14:07	04/17/25 10:25
680-263582-2	MCM-MCM-06	Water	04/16/25 11:41	04/17/25 10:25
680-263582-3	MCM-PT-01	Water	04/15/25 10:39	04/17/25 10:25
680-263582-4	MCM-PT-02	Water	04/16/25 09:43	04/17/25 10:25
680-263582-5	MCM-PT-03	Water	04/16/25 12:16	04/17/25 10:25
680-263582-6	MCM-DR-01	Water	04/15/25 13:55	04/17/25 10:25
680-263582-7	MCM-DR-02	Water	04/16/25 10:25	04/17/25 10:25
680-263582-8	MCM-DR-03	Water	04/15/25 11:08	04/17/25 10:25
680-263582-9	MCM-AP1-FD-01	Water	04/16/25 00:00	04/17/25 10:25
680-263582-10	MCM-AP1-FB-01	Water	04/15/25 15:47	04/17/25 10:25
680-263582-11	MCM-AP1-EB-01	Water	04/15/25 15:57	04/17/25 10:25

Job ID: 680-263582-1 Eurofins Savannah

Job Narrative
680-263582-1

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 4/17/2025 10:25 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 4.2°C.

General Chemistry
Method SM4500_S2_F: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-881151 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.

Client Sample Results

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-263582-1
Date Collected: 04/15/25 14:07
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	1.5		0.83	0.83	mg/L			04/17/25 16:32	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-263582-2
Date Collected: 04/16/25 11:41
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	23		0.81	0.81	mg/L			04/17/25 16:32	1

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-263582-3
Date Collected: 04/15/25 10:39
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	18		0.81	0.81	mg/L			04/17/25 16:32	1

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-263582-4
Date Collected: 04/16/25 09:43
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	5.4		0.81	0.81	mg/L			04/21/25 10:55	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-263582-5
Date Collected: 04/16/25 12:16
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	21	F1	0.81	0.81	mg/L			04/21/25 10:55	1

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-263582-6
Date Collected: 04/15/25 13:55
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	22		0.81	0.81	mg/L			04/17/25 16:53	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-263582-7
Date Collected: 04/16/25 10:25
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	37		0.81	0.81	mg/L			04/21/25 10:55	1

Client Sample Results

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-263582-8
Date Collected: 04/15/25 11:08
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**5.8**		0.81	0.81	mg/L			04/17/25 16:53	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-263582-9
Date Collected: 04/16/25 00:00
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	**5.8**		0.81	0.81	mg/L			04/21/25 10:55	1

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-263582-10
Date Collected: 04/15/25 15:47
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			04/17/25 16:53	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-263582-11
Date Collected: 04/15/25 15:57
Matrix: Water
Date Received: 04/17/25 10:25

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			04/17/25 16:53	1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-881047/1
Matrix: Water
Analysis Batch: 881047

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			04/17/25 16:32	1

Lab Sample ID: LCS 680-881047/2
Matrix: Water
Analysis Batch: 881047

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.61		mg/L		96	75 - 125		

Lab Sample ID: LCSD 680-881047/3
Matrix: Water
Analysis Batch: 881047

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
Sulfide			10.0	9.55		mg/L		96	75 - 125	1	30

Lab Sample ID: 680-263582-2 MS
Matrix: Water
Analysis Batch: 881047

Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	23		6.50	30.8		mg/L		118	75 - 125		

Lab Sample ID: 680-263582-2 MSD
Matrix: Water
Analysis Batch: 881047

Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	23		6.50	30.8		mg/L		118	75 - 125	0	30

Lab Sample ID: 680-263582-1 DU
Matrix: Water
Analysis Batch: 881047

Client Sample ID: MCM-INW-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	1.5			1.60		mg/L				6	30

Lab Sample ID: MB 680-881049/1
Matrix: Water
Analysis Batch: 881049

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			04/17/25 16:53	1

Method: 4500 S2 F-2011 - Sulfide, Total (Continued)

Lab Sample ID: LCS 680-881049/2
Matrix: Water
Analysis Batch: 881049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.61		mg/L		96	75 - 125		

Lab Sample ID: LCSD 680-881049/3
Matrix: Water
Analysis Batch: 881049

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
Sulfide			10.0	9.35		mg/L		94	75 - 125	3	30

Lab Sample ID: 680-263562-D-2 MS
Matrix: Water
Analysis Batch: 881049

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		
Sulfide	<0.96		9.24	9.45		mg/L		102	75 - 125		

Lab Sample ID: 680-263562-D-2 MSD
Matrix: Water
Analysis Batch: 881049

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
Sulfide	<0.96		9.24	9.45		mg/L		102	75 - 125	0	30

Lab Sample ID: 680-263562-D-1 DU
Matrix: Water
Analysis Batch: 881049

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	<1.0			<0.96		mg/L				NC	30

Lab Sample ID: MB 680-881151/1
Matrix: Water
Analysis Batch: 881151

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			04/21/25 10:55	1

Lab Sample ID: LCS 680-881151/2
Matrix: Water
Analysis Batch: 881151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	10.4		mg/L		104	75 - 125		

Method: 4500 S2 F-2011 - Sulfide, Total (Continued)

Lab Sample ID: LCSD 680-881151/3
Matrix: Water
Analysis Batch: 881151

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
Sulfide			10.0	10.4		mg/L		104	75 - 125	0	30

Lab Sample ID: 680-263582-5 MS
Matrix: Water
Analysis Batch: 881151

Client Sample ID: MCM-PT-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	21	F1	6.50	24.8	F1	mg/L		60	75 - 125		

Lab Sample ID: 680-263582-5 MSD
Matrix: Water
Analysis Batch: 881151

Client Sample ID: MCM-PT-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	21	F1	6.50	24.8	F1	mg/L		60	75 - 125	0	30

Lab Sample ID: 680-263582-4 DU
Matrix: Water
Analysis Batch: 881151

Client Sample ID: MCM-PT-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	5.4		5.33		mg/L				1	30

QC Association Summary

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

General Chemistry

Analysis Batch: 881047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-263582-1	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-263582-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-263582-3	MCM-PT-01	Total/NA	Water	4500 S2 F-2011	
MB 680-881047/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-881047/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-881047/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-263582-2 MS	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-263582-2 MSD	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-263582-1 DU	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 881049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-263582-6	MCM-DR-01	Total/NA	Water	4500 S2 F-2011	
680-263582-8	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-263582-10	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-263582-11	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-881049/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-881049/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-881049/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-263562-D-2 MS	Matrix Spike	Total/NA	Water	4500 S2 F-2011	
680-263562-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	4500 S2 F-2011	
680-263562-D-1 DU	Duplicate	Total/NA	Water	4500 S2 F-2011	

Analysis Batch: 881151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-263582-4	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	
680-263582-5	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-263582-7	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-263582-9	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
MB 680-881151/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-881151/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-881151/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-263582-5 MS	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-263582-5 MSD	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-263582-4 DU	MCM-PT-02	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-263582-1
Date Collected: 04/15/25 14:07
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	300 mL	300 mL	881047	04/17/25 16:32	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-263582-2
Date Collected: 04/16/25 11:41
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881047	04/17/25 16:32	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-01
Lab Sample ID: 680-263582-3
Date Collected: 04/15/25 10:39
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881047	04/17/25 16:32	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-02
Lab Sample ID: 680-263582-4
Date Collected: 04/16/25 09:43
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881151	04/21/25 10:55	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-263582-5
Date Collected: 04/16/25 12:16
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881151	04/21/25 10:55	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-01
Lab Sample ID: 680-263582-6
Date Collected: 04/15/25 13:55
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881049	04/17/25 16:53	NVF	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-263582-7
Date Collected: 04/16/25 10:25
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881151	04/21/25 10:55	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-263582-8
Date Collected: 04/15/25 11:08
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881049	04/17/25 16:53	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-263582-9
Date Collected: 04/16/25 00:00
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881151	04/21/25 10:55	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-263582-10
Date Collected: 04/15/25 15:47
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881049	04/17/25 16:53	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-263582-11
Date Collected: 04/15/25 15:57
Matrix: Water
Date Received: 04/17/25 10:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	881049	04/17/25 16:53	NVF	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: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-25

Method Summary

Client: Southern Company
Job ID: 680-263582-1
Project/Site: Plant McManus Performance Monitoring 34 Week
Apr

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Natalie Piparo, Jay Siewert (EnSafe)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:	Analysis Requested		Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Performance Monitoring 34-Week Sampling April 2025	Project #:			
Site:	SSOW#:			

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, Y - Trizma, Z - other (specify)
Other:

Task_Code: MCM-CCR-CA-20250414

Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total Number of containers
			Preservation Code:				CB	
MCM-INW-01	04/15/25	1407	G	WG	N		X	2
MCM-MCM-06	04/16/25	1141	G	WG	N		X	2
MCM-PT-01	04/15/25	1039	G	WG	N		X	2
MCM-PT-02	04/16/25	0943	G	WG	N		X	2
MCM-PT-03	04/16/25	1216	G	WG	N		X	2
MCM-DR-01	04/15/25	1355	G	WG	N		X	2
MCM-DR-02	04/16/25	1025	G	WG	N		X	2
MCM-DR-03	04/15/25	1108	G	WG	N		X	2
MCM-AP1-FD-01	04/16/25	—	G	WG	N		X	2
MCM-AP1-FB-01	04/15/25	1547	G	WQ	N		X	2
MCM-AP1-EB-01	04/15/25	1557	G	WQ	N		X	2

680-263582 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 lon
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ ...rs

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
	4/16/25 1645	Ensafe	FedEx		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				4-17-25 1025	
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: 4.2/4.2

Plant McManus Performance Monitoring Sampling Week 34				
Task Code: MCM-CCR-CA-20250414				
Location Code/Label	**Sample Code**	**Matrix Code**	**Sulfide[3] (SM4500)**	**As Speciation[1] (IC-ICP-MS)**
MCM-INW-01	MCM-INW-01-WG-	WG	X	X
MCM-MCM-06	MCM-MCM-06-WG-	WG	X	X
MCM-PT-01	MCM-PT-01-WG-	WG	X	X
MCM-PT-02	MCM-PT-02-WG-	WG	X	X
MCM-PT-03	MCM-PT-03-WG-	WG	X	X
MCM-DR-01	MCM-DR-01-WG-	WG	X	X
MCM-DR-02	MCM-DR-02-WG-	WG	X	X
MCM-DR-03	MCM-DR-03-WG-	WG	X	X
MCM-AP1-FD-01	MCM-AP1-FD-01-WG-	WG	X	X
MCM-AP1-FB-01	MCM-AP1-FB-01-WQ-	WQ	X	
MCM-AP1-EB-01	MCM-AP1-EB-01-WQ-	WQ	X	
Extra 1			X	
Extra 2			X	

[1]As speciation to be analyzed by Brooks through Eurofins

[3]Sulfide samples to be analyzed by Eurofins

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-263582-1

Login Number: 263582

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171

gel.com

September 29, 2025

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance
Work Order: 742786

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 12, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
742786001	MCM-MCM-01	Ground Water	09/09/25 15:22	09/12/25 12:30
742786002	MCM-MCM-02	Ground Water	09/10/25 12:23	09/12/25 12:30
742786003	MCM-MCM-04	Ground Water	09/10/25 15:36	09/12/25 12:30
742786004	MCM-MCM-05	Ground Water	09/09/25 16:45	09/12/25 12:30
742786005	MCM-MCM-06	Ground Water	09/09/25 14:58	09/12/25 12:30
742786006	MCM-MCM-07	Ground Water	09/11/25 09:56	09/12/25 12:30
742786007	MCM-MCM-11	Ground Water	09/10/25 15:14	09/12/25 12:30
742786008	MCM-MCM-12	Ground Water	09/09/25 11:23	09/12/25 12:30
742786009	MCM-MCM-14	Ground Water	09/09/25 11:35	09/12/25 12:30
742786010	MCM-MCM-15	Ground Water	09/09/25 16:51	09/12/25 12:30
742786011	MCM-MCM-16	Ground Water	09/10/25 10:30	09/12/25 12:30
742786012	MCM-MCM-17	Ground Water	09/11/25 10:17	09/12/25 12:30
742786013	MCM-MCM-18	Ground Water	09/09/25 11:27	09/12/25 12:30
742786014	MCM-MCM-19	Ground Water	09/09/25 14:45	09/12/25 12:30
742786015	MCM-MCM-20	Ground Water	09/09/25 16:00	09/12/25 12:30
742786016	MCM-DPZ-02	Ground Water	09/10/25 10:41	09/12/25 12:30

742786017	MCM-AP1-FD-01	Ground Water	09/09/25 12:00	09/12/25 12:30
742786018	MCM-AP1-FD-02	Ground Water	09/10/25 12:00	09/12/25 12:30
742786019	MCM-AP1-FB-01	Water	09/09/25 16:58	09/12/25 12:30
742786020	MCM-AP1-FB-02	Water	09/10/25 16:20	09/12/25 12:30
742786021	MCM-AP1-EB-01	Water	09/09/25 17:07	09/12/25 12:30
742786022	MCM-AP1-EB-02	Water	09/10/25 16:29	09/12/25 12:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

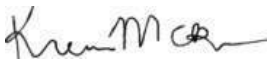
Method	Run Date ID
SW846 3005A	15-SEP-2025
SW846 7470A Prep	17-SEP-2025
SW846 7470A Prep	18-SEP-2025

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	15-SEP-2025
EPA 300.0	16-SEP-2025
EPA 300.0	17-SEP-2025
SM 2540C	15-SEP-2025
SM 2540C	16-SEP-2025
SM 2540C	17-SEP-2025
SW846 3005A/6020B	26-SEP-2025
SW846 7470A	18-SEP-2025
SW846 7470A	19-SEP-2025

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,



Kierra McKnight for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 742786 GEL Work Order: 742786

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

J Value is estimated

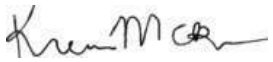
N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by 

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-01	Project:	GPCC00105
Sample ID:	742786001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	09-SEP-25 15:22		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		14.4	0.335	1.00	mg/L		5	CWW	09/16/25	0239	2863718	1
Sulfate		24.9	0.665	2.00	mg/L		5					
Fluoride	J	0.0772	0.0330	0.100	mg/L		1	CWW	09/16/25	2202	2863718	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/18/25	1028	2865010	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0405	2863218	4
Barium		0.0742	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		7.83	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic		0.00658	0.00200	0.00500	mg/L	1.00	1	PRB	09/26/25	1145	2863218	5
Beryllium	J	0.000216	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0522	0.00520	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		129	2.38	10.0	mg/L			SC1	09/15/25	1508	2863347	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/17/25	1300	2865008
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863217

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-01	Project:	GPCC00105
Sample ID:	742786001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-02	Project:	GPCC00105
Sample ID:	742786002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-SEP-25 12:23		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		15.4	0.335	1.00	mg/L		5	CWW	09/16/25	0415	2863718	1
Sulfate		23.9	0.665	2.00	mg/L		5					
Fluoride	J	0.0373	0.0330	0.100	mg/L		1	CWW	09/16/25	2337	2863718	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/18/25	1035	2865010	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0421	2863218	4
Barium		0.0472	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		6.85	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	PRB	09/26/25	1227	2863218	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0910	0.00520	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		85.0	2.38	10.0	mg/L			SC1	09/16/25	2011	2864050	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863217
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/17/25	1300	2865008

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Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-02	Project:	GPCC00105
Sample ID:	742786002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

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Company :	Georgia Power Company
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Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-04	Project:	GPCC00105
Sample ID:	742786003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-SEP-25 15:36		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		21.5	0.335	1.00	mg/L		5	CWW	09/16/25	0447	2863718	1
Sulfate		25.8	0.665	2.00	mg/L		5					
Fluoride	U	ND	0.0330	0.100	mg/L		1	CWW	09/17/25	0009	2863718	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/18/25	1036	2865010	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0423	2863218	4
Barium		0.0285	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		4.36	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00448	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00158	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000218	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic	J	0.00382	0.00200	0.00500	mg/L	1.00	1	PRB	09/26/25	1228	2863218	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0612	0.00520	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		106	2.38	10.0	mg/L			SC1	09/16/25	2011	2864050	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863217
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/17/25	1300	2865008

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Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-04	Project:	GPCC00105
Sample ID:	742786003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-05	Project:	GPCC00105
Sample ID:	742786004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	09-SEP-25 16:45		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.719	0.165	0.500	mg/L		5	CWW	09/16/25	0518	2863718	1
Sulfate		560	13.3	40.0	mg/L		100	CWW	09/17/25	0041	2863718	2
Chloride		4910	67.0	200	mg/L		1000	CWW	09/17/25	0113	2863718	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/18/25	1038	2865010	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	J	0.00159	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0425	2863218	5
Barium		0.0834	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum		0.00212	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic		0.0629	0.0100	0.0250	mg/L	1.00	5	PRB	09/26/25	1230	2863218	6
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5					
Boron		0.669	0.0260	0.0750	mg/L	1.00	5					
Calcium		245	0.400	1.00	mg/L	1.00	5					
Lithium		0.0533	0.0150	0.0500	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9300	23.8	100	mg/L			SC1	09/15/25	1508	2863347	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863217
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/17/25	1300	2865008

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Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-05	Project:	GPCC00105
Sample ID:	742786004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	742786005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	09-SEP-25 14:58		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.272	0.165	0.500	mg/L		5	CWW	09/16/25	0654	2863718	1
Sulfate		775	13.3	40.0	mg/L		100	CWW	09/17/25	0145	2863718	2
Chloride		5860	134	400	mg/L		2000	CWW	09/17/25	0216	2863718	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/18/25	1040	2865010	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0427	2863218	5
Barium		0.338	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000587	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic		0.0777	0.0100	0.0250	mg/L	1.00	5	PRB	09/26/25	1232	2863218	6
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5					
Boron		0.799	0.0260	0.0750	mg/L	1.00	5					
Calcium		240	0.400	1.00	mg/L	1.00	5					
Lithium		0.0616	0.0150	0.0500	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		11700	23.8	100	mg/L			SC1	09/15/25	1508	2863347	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/17/25	1300	2865008
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863217

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Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	742786005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company :	Georgia Power Company
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Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-07	Project:	GPCC00105
Sample ID:	742786006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-SEP-25 09:56		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.589	0.165	0.500	mg/L		5	CWW	09/16/25	0726	2863718	1
Sulfate		457	6.65	20.0	mg/L		50	CWW	09/17/25	0248	2863718	2
Chloride		3210	67.0	200	mg/L		1000	CWW	09/17/25	0424	2863718	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/18/25	1045	2865010	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0429	2863218	5
Barium		0.0733	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000526	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/26/25	1204	2863218	6
Lithium		0.0161	0.00300	0.0100	mg/L	1.00	1					
Arsenic	J	0.0104	0.0100	0.0250	mg/L	1.00	5	PRB	09/26/25	1233	2863218	7
Boron		0.906	0.0260	0.0750	mg/L	1.00	5					
Calcium		132	0.400	1.00	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5990	23.8	100	mg/L			SC1	09/17/25	1903	2864898	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/17/25	1300	2865008
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863217

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-07	Project:	GPCC00105
Sample ID:	742786006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-11	Project:	GPCC00105
Sample ID:	742786007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-SEP-25 15:14		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		41.0	0.665	2.00	mg/L		5	CWW	09/16/25	0758	2863718	1
Fluoride		0.359	0.0330	0.100	mg/L		1	CWW	09/17/25	0456	2863718	2
Chloride		82.5	1.34	4.00	mg/L		20	CWW	09/17/25	0528	2863718	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/18/25	1046	2865010	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0431	2863218	5
Barium		0.0702	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		20.7	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000294	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic		0.0206	0.00200	0.00500	mg/L	1.00	1	PRB	09/26/25	1235	2863218	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0854	0.00520	0.0150	mg/L	1.00	1					
Lithium	J	0.00642	0.00300	0.0100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		282	2.38	10.0	mg/L			SC1	09/17/25	1756	2864896	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/17/25	1300	2865008
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863217

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-11	Project:	GPCC00105
Sample ID:	742786007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-12	Project:	GPCC00105
Sample ID:	742786008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	09-SEP-25 11:23		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.51	0.0330	0.100	mg/L		1	CWW	09/17/25	0559	2863718	1
Sulfate	J	0.343	0.133	0.400	mg/L		1					
Chloride		281	3.35	10.0	mg/L		50	CWW	09/17/25	0631	2863718	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/18/25	1048	2865010	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0434	2863218	4
Barium		0.0611	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		4.43	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00736	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000456	0.000300	0.00100	mg/L	1.00	1					
Lead	J	0.000730	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000438	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	PRB	09/26/25	1207	2863218	5
Beryllium		0.00155	0.000200	0.000500	mg/L	1.00	1					
Lithium		0.0102	0.00300	0.0100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Boron		1.32	0.0520	0.150	mg/L	1.00	10	PRB	09/26/25	1237	2863218	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1130	2.38	10.0	mg/L			SC1	09/15/25	1508	2863347	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/17/25	1300	2865008
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863217

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-12	Project:	GPCC00105
Sample ID:	742786008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-14	Project:	GPCC00105
Sample ID:	742786009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	09-SEP-25 11:35		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.165	0.500	mg/L		5	CWW	09/16/25	0901	2863718	1
Sulfate		563	13.3	40.0	mg/L		100	CWW	09/17/25	0703	2863718	2
Chloride		4230	67.0	200	mg/L		1000	CWW	09/17/25	0735	2863718	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/18/25	1050	2865010	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0436	2863218	5
Barium		0.121	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	PRB	09/26/25	1240	2863218	6
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5					
Boron		0.776	0.0260	0.0750	mg/L	1.00	5					
Calcium		178	0.400	1.00	mg/L	1.00	5					
Lithium	J	0.0348	0.0150	0.0500	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8750	23.8	100	mg/L			SC1	09/15/25	1508	2863347	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/17/25	1300	2865008
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863217

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-14	Project:	GPCC00105
Sample ID:	742786009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-15	Project:	GPCC00105
Sample ID:	742786010	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	09-SEP-25 16:51		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		14.2	0.335	1.00	mg/L		5	CWW	09/16/25	0933	2863718	1
Sulfate		14.3	0.665	2.00	mg/L		5					
Fluoride	J	0.0538	0.0330	0.100	mg/L		1	CWW	09/17/25	0807	2863718	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/18/25	1051	2865010	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0438	2863218	4
Barium		0.0422	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		6.52	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000716	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic	J	0.00381	0.00200	0.00500	mg/L	1.00	1	PRB	09/26/25	1242	2863218	5
Beryllium	J	0.000375	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0726	0.00520	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		107	2.38	10.0	mg/L			SC1	09/15/25	1508	2863347	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863217
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/17/25	1300	2865008

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-15	Project:	GPCC00105
Sample ID:	742786010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-16	Project:	GPCC00105
Sample ID:	742786011	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-SEP-25 10:30		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.99	0.335	1.00	mg/L		5	CWW	09/16/25	1005	2863718	1
Sulfate		24.7	0.665	2.00	mg/L		5					
Fluoride	J	0.0442	0.0330	0.100	mg/L		1	CWW	09/17/25	0839	2863718	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/18/25	1053	2865010	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0445	2863218	4
Barium		0.0866	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.98	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	PRB	09/26/25	1251	2863218	5
Beryllium	J	0.000203	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0540	0.00520	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		54.0	2.38	10.0	mg/L			SC1	09/17/25	1756	2864896	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863217
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/17/25	1300	2865008

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-16	Project:	GPCC00105
Sample ID:	742786011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-17	Project:	GPCC00105
Sample ID:	742786012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-SEP-25 10:17		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.995	0.165	0.500	mg/L		5	CWW	09/16/25	1141	2863718	1
Sulfate		286	6.65	20.0	mg/L		50	CWW	09/17/25	1118	2863718	2
Chloride		2550	67.0	200	mg/L		1000	CWW	09/17/25	1150	2863718	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/18/25	1055	2865010	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0447	2863218	5
Barium		0.0682	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00513	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000272	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	PRB	09/26/25	1302	2863218	6
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5					
Lithium	J	0.0213	0.0150	0.0500	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Boron		2.21	0.104	0.300	mg/L	1.00	20	PRB	09/26/25	1254	2863218	7
Calcium		60.7	1.60	4.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		5530	23.8	100	mg/L			SC1	09/17/25	1903	2864898	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/17/25	1300	2865008
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863217

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-17	Project:	GPCC00105
Sample ID:	742786012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-18	Project:	GPCC00105
Sample ID:	742786013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	09-SEP-25 11:27		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.369	0.165	0.500	mg/L		5	CWW	09/16/25	1316	2863718	1
Sulfate		140	1.33	4.00	mg/L		10	CWW	09/17/25	1221	2863718	2
Chloride		835	13.4	40.0	mg/L		200	CWW	09/17/25	1253	2863718	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/18/25	1056	2865010	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0513	2863220	5
Barium		0.124	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		15.4	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic	J	0.00246	0.00200	0.00500	mg/L	1.00	1	PRB	09/26/25	1101	2863220	6
Beryllium		0.00266	0.000200	0.000500	mg/L	1.00	1					
Boron		0.190	0.00520	0.0150	mg/L	1.00	1					
Lithium	J	0.00343	0.00300	0.0100	mg/L	1.00	1					
Selenium	J	0.00473	0.00150	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1640	4.76	20.0	mg/L			SC1	09/15/25	1508	2863347	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863219
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/17/25	1300	2865008

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-18	Project:	GPCC00105
Sample ID:	742786013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-19	Project:	GPCC00105
Sample ID:	742786014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	09-SEP-25 14:45		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.778	0.165	0.500	mg/L		5	CWW	09/16/25	1348	2863718	1
Sulfate		824	13.3	40.0	mg/L		100	CWW	09/17/25	1325	2863718	2
Chloride		5800	67.0	200	mg/L		1000	CWW	09/17/25	1357	2863718	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/18/25	1058	2865010	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0528	2863220	5
Barium		0.0906	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00562	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic		0.0262	0.0100	0.0250	mg/L	1.00	5	PRB	09/26/25	1118	2863220	6
Beryllium		0.0147	0.00100	0.00250	mg/L	1.00	5					
Boron		0.838	0.0260	0.0750	mg/L	1.00	5					
Calcium		143	0.400	1.00	mg/L	1.00	5					
Lithium	J	0.0153	0.0150	0.0500	mg/L	1.00	5					
Selenium		0.0727	0.00750	0.0250	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		10900	23.8	100	mg/L			SC1	09/15/25	1508	2863347	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/17/25	1300	2865008
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863219

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-19	Project:	GPCC00105
Sample ID:	742786014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-20	Project:	GPCC00105
Sample ID:	742786015	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	09-SEP-25 16:00		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		3.20	0.165	0.500	mg/L		5	CWW	09/16/25	1420	2863718	1
Sulfate		784	6.65	20.0	mg/L		50	CWW	09/17/25	1429	2863718	2
Chloride		4040	67.0	200	mg/L		1000	CWW	09/17/25	1501	2863718	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/18/25	1059	2865010	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0530	2863220	5
Barium		0.0921	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		86.6	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00615	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0234	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic		0.0262	0.0100	0.0250	mg/L	1.00	5	PRB	09/26/25	1120	2863220	6
Beryllium		0.0159	0.00100	0.00250	mg/L	1.00	5					
Boron		0.885	0.0260	0.0750	mg/L	1.00	5					
Lithium	J	0.0220	0.0150	0.0500	mg/L	1.00	5					
Selenium		0.0365	0.00750	0.0250	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8360	23.8	100	mg/L			SC1	09/15/25	1508	2863347	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863219
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/17/25	1300	2865008

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-20	Project:	GPCC00105
Sample ID:	742786015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DPZ-02	Project:	GPCC00105
Sample ID:	742786016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-SEP-25 10:41		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.370	0.165	0.500	mg/L		5	CWW	09/16/25	1502	2863718	1
Sulfate		505	6.65	20.0	mg/L		50	CWW	09/17/25	1533	2863718	2
Chloride		4150	67.0	200	mg/L		1000	CWW	09/17/25	1708	2863718	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/18/25	1104	2865010	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0532	2863220	5
Barium		0.0463	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000393	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic		0.0351	0.0100	0.0250	mg/L	1.00	5	PRB	09/26/25	1122	2863220	6
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5					
Calcium		163	0.400	1.00	mg/L	1.00	5					
Lithium		0.0660	0.0150	0.0500	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Boron		1.34	0.0520	0.150	mg/L	1.00	10	PRB	09/26/25	1153	2863220	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8230	23.8	100	mg/L			SC1	09/17/25	1756	2864896	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/17/25	1300	2865008
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863219

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DPZ-02	Project:	GPCC00105
Sample ID:	742786016	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	742786017	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	09-SEP-25 12:00		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.308	0.165	0.500	mg/L		5	CWW	09/16/25	1534	2863718	1
Sulfate		590	6.65	20.0	mg/L		50	CWW	09/17/25	1740	2863718	2
Chloride		4320	67.0	200	mg/L		1000	CWW	09/17/25	1812	2863718	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/18/25	1106	2865010	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0534	2863220	5
Barium		0.120	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	PRB	09/26/25	1124	2863220	6
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5					
Boron		0.736	0.0260	0.0750	mg/L	1.00	5					
Calcium		176	0.400	1.00	mg/L	1.00	5					
Lithium	J	0.0341	0.0150	0.0500	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8780	23.8	100	mg/L			SC1	09/15/25	1508	2863347	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863219
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/17/25	1300	2865008

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Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	742786017	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-02	Project:	GPCC00105
Sample ID:	742786018	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-SEP-25 12:00		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		25.5	0.665	2.00	mg/L		5	CWW	09/16/25	1605	2863718	1
Chloride		6.16	0.0670	0.200	mg/L		1	CWW	09/17/25	1844	2863718	2
Fluoride	J	0.0417	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/18/25	1108	2865010	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0556	2863220	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0869	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		3.94	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/26/25	1131	2863220	5
Boron		0.0544	0.00520	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		62.0	2.38	10.0	mg/L			SC1	09/17/25	1756	2864896	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/17/25	1300	2865008
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863219

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-02	Project:	GPCC00105
Sample ID:	742786018	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	742786019	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	09-SEP-25 16:58		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/16/25	0136	2863718	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/18/25	1109	2865010	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0558	2863220	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/26/25	1132	2863220	4
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			SC1	09/15/25	1508	2863828	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863219
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/17/25	1300	2865008

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	742786019	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-02	Project:	GPCC00105
Sample ID:	742786020	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	10-SEP-25 16:20		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/16/25	0207	2863718	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/18/25	1111	2865010	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0600	2863220	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/26/25	1134	2863220	4
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			SC1	09/17/25	1756	2864896	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/17/25	1300	2865008
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863219

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-02	Project:	GPCC00105
Sample ID:	742786020	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	742786021	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	09-SEP-25 17:07		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	TXT1	09/15/25	1244	2863720	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/25	1207	2865017	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0602	2863220	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/26/25	1135	2863220	4
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	4.00	2.38	10.0	mg/L			SC1	09/15/25	1508	2863828	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/18/25	1200	2865015
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863219

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	742786021	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-02	Project:	GPCC00105
Sample ID:	742786022	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	10-SEP-25 16:29		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	TXT1	09/15/25	1315	2863720	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	09/19/25	1212	2865017	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	09/26/25	0604	2863220	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	09/26/25	1137	2863220	4
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			SC1	09/17/25	1756	2864896	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	PB1	09/18/25	1200	2865015
SW846 3005A	ICP-MS 3005A PREP	ES3	09/15/25	1525	2863219

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-02	Project:	GPCC00105
Sample ID:	742786022	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: September 29, 2025

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **742786**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2863718												
QC1206234281 742786001 DUP												
Chloride			14.4		14.3	mg/L	0.115			(0%-20%)	CWW	09/16/25 03:11
Fluoride		J	0.0772	J	0.0462	mg/L	50.2	^		(+/-0.100)		09/16/25 22:34
Sulfate			24.9		24.9	mg/L	0.245			(0%-20%)		09/16/25 03:11
QC1206234282 742786011 DUP												
Chloride			5.99		5.89	mg/L	1.68			(0%-20%)		09/16/25 10:37
Fluoride		J	0.0442	U	ND	mg/L	200	^				09/17/25 09:10
Sulfate			24.7		26.3	mg/L	6.14			(0%-20%)		09/16/25 10:37
QC1206234280 LCS												
Chloride	5.00				4.83	mg/L			96.7	(90%-110%)		09/16/25 01:04
Fluoride	2.50				2.42	mg/L			97	(90%-110%)		
Sulfate	10.0				9.81	mg/L			98.1	(90%-110%)		
QC1206234279 MB												
Chloride				U	ND	mg/L						09/16/25 00:32
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						

QC Summary

Workorder: **742786**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2863718											
QC1206234283 742786001 MS											
Chloride	25.0		14.4		39.1	mg/L		99.1	(90%-110%)	CWW	09/16/25 03:43
Fluoride	2.50	J	0.0772		2.60	mg/L		101	(90%-110%)		09/16/25 23:05
Sulfate	50.0		24.9		74.1	mg/L		98.4	(90%-110%)		09/16/25 03:43
QC1206234284 742786011 MS											
Chloride	25.0		5.99		29.8	mg/L		95.3	(90%-110%)		09/16/25 11:09
Fluoride	2.50	J	0.0442		2.58	mg/L		102	(90%-110%)		09/17/25 10:46
Sulfate	50.0		24.7		74.1	mg/L		98.8	(90%-110%)		09/16/25 11:09
Batch 2863720											
QC1206234303 742810003 DUP											
Chloride			4.92		4.93	mg/L	0.386		(0%-20%)	TXT1	09/15/25 15:52
Fluoride		U	ND	U	ND	mg/L	N/A				
Sulfate			0.434		0.418	mg/L	3.61	^	(+/-0.400)		
QC1206234302 LCS											
Chloride	5.00				4.66	mg/L		93.1	(90%-110%)		09/15/25 12:13
Fluoride	2.50				2.32	mg/L		93	(90%-110%)		
Sulfate	10.0				9.20	mg/L		92	(90%-110%)		
QC1206234301 MB											
Chloride				U	ND	mg/L					09/15/25 11:42

QC Summary

Workorder: **742786**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2863720											
Fluoride				U	ND	mg/L				TXT1	09/15/25 11:42
Sulfate				U	ND	mg/L					
QC1206234304 742810003 MS											
Chloride	5.00		4.92		10.0	mg/L		102	(90%-110%)		09/15/25 16:24
Fluoride	2.50	U	ND		2.32	mg/L		92.7	(90%-110%)		
Sulfate	10.0		0.434		9.25	mg/L		88.1*	(90%-110%)		
Metals Analysis - ICPMS											
Batch 2863218											
QC1206233224 LCS											
Antimony	0.0500				0.0526	mg/L		105	(80%-120%)	PRB	09/26/25 04:03
Arsenic	0.0500				0.0513	mg/L		103	(80%-120%)		09/26/25 11:43
Barium	0.0500				0.0543	mg/L		109	(80%-120%)		09/26/25 04:03
Beryllium	0.0500				0.0598	mg/L		120	(80%-120%)		09/26/25 11:43
Boron	0.100				0.114	mg/L		114	(80%-120%)		
Cadmium	0.0500				0.0547	mg/L		109	(80%-120%)		09/26/25 04:03
Calcium	2.00				2.22	mg/L		111	(80%-120%)		
Chromium	0.0500				0.0554	mg/L		111	(80%-120%)		

QC Summary

Workorder: **742786**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2863218										
Cobalt	0.0500			0.0539	mg/L		108	(80%-120%)	PRB	09/26/25 04:03
Lead	0.0500			0.0554	mg/L		111	(80%-120%)		
Lithium	0.0500			0.0557	mg/L		111	(80%-120%)		09/26/25 11:43
Molybdenum	0.0500			0.0559	mg/L		112	(80%-120%)		09/26/25 04:03
Selenium	0.0500			0.0508	mg/L		102	(80%-120%)		09/26/25 11:43
Thallium	0.0500			0.0535	mg/L		107	(80%-120%)		09/26/25 04:03
QC1206233223 MB										
Antimony			U	ND	mg/L					09/26/25 04:01
Arsenic			U	ND	mg/L					09/26/25 11:42
Barium			U	ND	mg/L					09/26/25 04:01
Beryllium			U	ND	mg/L					09/26/25 11:42
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					09/26/25 04:01
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					

QC Summary

Workorder: **742786**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2863218											
Cobalt				U	ND	mg/L				PRB	09/26/25 04:01
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					09/26/25 11:42
Molybdenum				U	ND	mg/L					09/26/25 04:01
Selenium				U	ND	mg/L					09/26/25 11:42
Thallium				U	ND	mg/L					09/26/25 04:01
QC1206233225 742786001 MS											
Antimony	0.0500	U	ND		0.0499	mg/L		99.4	(75%-125%)		09/26/25 04:07
Arsenic	0.0500		0.00658		0.0577	mg/L		102	(75%-125%)		09/26/25 11:47
Barium	0.0500		0.0742		0.122	mg/L		94.6	(75%-125%)		09/26/25 04:07
Beryllium	0.0500	J	0.000216		0.0594	mg/L		118	(75%-125%)		09/26/25 11:47
Boron	0.100		0.0522		0.160	mg/L		108	(75%-125%)		
Cadmium	0.0500	U	ND		0.0506	mg/L		101	(75%-125%)		09/26/25 04:07
Calcium	2.00		7.83		9.71	mg/L		94.2	(75%-125%)		
Chromium	0.0500	U	ND		0.0511	mg/L		101	(75%-125%)		

QC Summary

Workorder: **742786**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2863218											
Cobalt	0.0500	U	ND		0.0504	mg/L		101	(75%-125%)	PRB	09/26/25 04:07
Lead	0.0500	U	ND		0.0513	mg/L		103	(75%-125%)		
Lithium	0.0500	U	ND		0.0559	mg/L		110	(75%-125%)		09/26/25 11:47
Molybdenum	0.0500	U	ND		0.0515	mg/L		103	(75%-125%)		09/26/25 04:07
Selenium	0.0500	U	ND		0.0488	mg/L		97.6	(75%-125%)		09/26/25 11:47
Thallium	0.0500	U	ND		0.0483	mg/L		96.5	(75%-125%)		09/26/25 04:07
QC1206233226 742786001 MSD											
Antimony	0.0500	U	ND		0.0484	mg/L	3.09	96.4	(0%-20%)		09/26/25 04:10
Arsenic	0.0500		0.00658		0.0588	mg/L	1.87	104	(0%-20%)		09/26/25 11:48
Barium	0.0500		0.0742		0.122	mg/L	0.0189	94.7	(0%-20%)		09/26/25 04:10
Beryllium	0.0500	J	0.000216		0.0604	mg/L	1.61	120	(0%-20%)		09/26/25 11:48
Boron	0.100		0.0522		0.165	mg/L	2.82	113	(0%-20%)		
Cadmium	0.0500	U	ND		0.0500	mg/L	1.17	99.9	(0%-20%)		09/26/25 04:10
Calcium	2.00		7.83		9.71	mg/L	0.016	94.3	(0%-20%)		
Chromium	0.0500	U	ND		0.0515	mg/L	0.706	102	(0%-20%)		

QC Summary

Workorder: **742786**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2863218											
Cobalt	0.0500	U	ND		0.0508	mg/L	0.775	102	(0%-20%)	PRB	09/26/25 04:10
Lead	0.0500	U	ND		0.0537	mg/L	4.55	107	(0%-20%)		
Lithium	0.0500	U	ND		0.0563	mg/L	0.64	111	(0%-20%)		09/26/25 11:48
Molybdenum	0.0500	U	ND		0.0508	mg/L	1.31	101	(0%-20%)		09/26/25 04:10
Selenium	0.0500	U	ND		0.0505	mg/L	3.43	101	(0%-20%)		09/26/25 11:48
Thallium	0.0500	U	ND		0.0479	mg/L	0.909	95.7	(0%-20%)		09/26/25 04:10
QC1206233228 742786001 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/26/25 04:14
Arsenic			6.58	U	ND	ug/L	N/A		(0%-20%)		09/26/25 11:51
Barium			74.2		15.3	ug/L	3.36		(0%-20%)		09/26/25 04:14
Beryllium		J	0.216	U	ND	ug/L	N/A		(0%-20%)		09/26/25 11:51
Boron			52.2	J	14.6	ug/L	40.3		(0%-20%)		
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/26/25 04:14
Calcium			7830		1650	ug/L	5.7		(0%-20%)		
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **742786**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2863218										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/26/25 04:14
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/26/25 11:51
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/26/25 04:14
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/26/25 11:51
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/26/25 04:14
Batch 2863220										
QC1206233230 LCS										
Antimony	0.0500			0.0490	mg/L		98.1	(80%-120%)	PRB	09/26/25 05:11
Arsenic	0.0500			0.0513	mg/L		103	(80%-120%)		09/26/25 10:59
Barium	0.0500			0.0520	mg/L		104	(80%-120%)		09/26/25 05:11
Beryllium	0.0500			0.0598	mg/L		120	(80%-120%)		09/26/25 10:59
Boron	0.100			0.113	mg/L		113	(80%-120%)		
Cadmium	0.0500			0.0508	mg/L		102	(80%-120%)		09/26/25 05:11
Calcium	2.00			2.11	mg/L		106	(80%-120%)		
Chromium	0.0500			0.0499	mg/L		99.7	(80%-120%)		

QC Summary

Workorder: **742786**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2863220										
Cobalt	0.0500			0.0489	mg/L		97.7	(80%-120%)	PRB	09/26/25 05:11
Lead	0.0500			0.0513	mg/L		103	(80%-120%)		
Lithium	0.0500			0.0567	mg/L		113	(80%-120%)		09/26/25 10:59
Molybdenum	0.0500			0.0509	mg/L		102	(80%-120%)		09/26/25 05:11
Selenium	0.0500			0.0502	mg/L		100	(80%-120%)		09/26/25 10:59
Thallium	0.0500			0.0489	mg/L		97.8	(80%-120%)		09/26/25 05:11
QC1206233229 MB										
Antimony			U	ND	mg/L					09/26/25 05:08
Arsenic			U	ND	mg/L					09/26/25 10:58
Barium			U	ND	mg/L					09/26/25 05:08
Beryllium			U	ND	mg/L					09/26/25 10:58
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					09/26/25 05:08
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					

QC Summary

Workorder: **742786**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2863220											
Cobalt				U	ND	mg/L				PRB	09/26/25 05:08
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					09/26/25 10:58
Molybdenum				U	ND	mg/L					09/26/25 05:08
Selenium				U	ND	mg/L					09/26/25 10:58
Thallium				U	ND	mg/L					09/26/25 05:08
QC1206233231 742786013 MS											
Antimony	0.0500	U	ND		0.0481	mg/L		96	(75%-125%)		09/26/25 05:15
Arsenic	0.0500	J	0.00246		0.0545	mg/L		104	(75%-125%)		09/26/25 11:02
Barium	0.0500		0.124		0.171	mg/L		93.9	(75%-125%)		09/26/25 05:15
Beryllium	0.0500		0.00266		0.0564	mg/L		107	(75%-125%)		09/26/25 11:02
Boron	0.100		0.190		0.284	mg/L		94.3	(75%-125%)		
Cadmium	0.0500	U	ND		0.0463	mg/L		92.6	(75%-125%)		09/26/25 05:15
Calcium	2.00		15.4		17.1	mg/L		N/A	(75%-125%)		
Chromium	0.0500	U	ND		0.0493	mg/L		93.2	(75%-125%)		

QC Summary

Workorder: **742786**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2863220											
Cobalt	0.0500	U	ND		0.0462	mg/L		92.4	(75%-125%)	PRB	09/26/25 05:15
Lead	0.0500	U	ND		0.0454	mg/L		90.8	(75%-125%)		
Lithium	0.0500	J	0.00343		0.0582	mg/L		109	(75%-125%)		09/26/25 11:02
Molybdenum	0.0500	U	ND		0.0531	mg/L		106	(75%-125%)		09/26/25 05:15
Selenium	0.0500	J	0.00473		0.0534	mg/L		97.3	(75%-125%)		09/26/25 11:02
Thallium	0.0500	U	ND		0.0439	mg/L		87.7	(75%-125%)		09/26/25 05:15
QC1206233232 742786013 MSD											
Antimony	0.0500	U	ND		0.0475	mg/L	1.2	94.8	(0%-20%)		09/26/25 05:17
Arsenic	0.0500	J	0.00246		0.0534	mg/L	2.07	102	(0%-20%)		09/26/25 11:04
Barium	0.0500		0.124		0.170	mg/L	0.441	92.4	(0%-20%)		09/26/25 05:17
Beryllium	0.0500		0.00266		0.0583	mg/L	3.3	111	(0%-20%)		09/26/25 11:04
Boron	0.100		0.190		0.291	mg/L	2.18	101	(0%-20%)		
Cadmium	0.0500	U	ND		0.0457	mg/L	1.34	91.4	(0%-20%)		09/26/25 05:17
Calcium	2.00		15.4		16.9	mg/L	1.5	N/A	(0%-20%)		
Chromium	0.0500	U	ND		0.0488	mg/L	0.97	92.3	(0%-20%)		

QC Summary

Workorder: **742786**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2863220											
Cobalt	0.0500	U	ND		0.0452	mg/L	2.26	90.4	(0%-20%)	PRB	09/26/25 05:17
Lead	0.0500	U	ND		0.0462	mg/L	1.63	92.3	(0%-20%)		
Lithium	0.0500	J	0.00343		0.0582	mg/L	0.0103	109	(0%-20%)		09/26/25 11:04
Molybdenum	0.0500	U	ND		0.0531	mg/L	0.0979	106	(0%-20%)		09/26/25 05:17
Selenium	0.0500	J	0.00473		0.0548	mg/L	2.69	100	(0%-20%)		09/26/25 11:04
Thallium	0.0500	U	ND		0.0444	mg/L	1.1	88.7	(0%-20%)		09/26/25 05:17
QC1206233234 742786013 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/26/25 05:21
Arsenic		J	2.46	U	ND	ug/L	N/A		(0%-20%)		09/26/25 11:07
Barium			124		25.7	ug/L	3.75		(0%-20%)		09/26/25 05:21
Beryllium			2.66		0.501	ug/L	5.72		(0%-20%)		09/26/25 11:07
Boron			190		44.4	ug/L	16.8		(0%-20%)		
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/26/25 05:21
Calcium			15400		3120	ug/L	1.44		(0%-20%)		
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **742786**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2863220										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	09/26/25 05:21
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	J	3.43	U	ND	ug/L	N/A		(0%-20%)		09/26/25 11:07
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/26/25 05:21
Selenium	J	4.73	U	ND	ug/L	N/A		(0%-20%)		09/26/25 11:07
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/26/25 05:21
Metals Analysis-Mercury										
Batch 2865010										
QC1206236948 742786001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/18/25 10:30
QC1206236947 LCS										
Mercury 0.00200				0.00202	mg/L		101	(80%-120%)		09/18/25 10:27
QC1206236946 MB										
Mercury			U	ND	mg/L					09/18/25 10:25
QC1206236949 742786001 MS										
Mercury 0.00200	U	ND		0.00197	mg/L		98.3	(75%-125%)		09/18/25 10:32
Batch 2865017										
QC1206236969 742696001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	09/19/25 11:58

QC Summary

Workorder: **742786**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Metals Analysis-Mercury												
Batch 2865017												
QC1206236968 LCS												
Mercury	0.00200				0.00192	mg/L			96.1	(80%-120%)	JP2	09/19/25 11:54
QC1206236967 MB												
Mercury				U	ND	mg/L						09/19/25 11:53
QC1206236970 742696001 MS												
Mercury	0.00200	U	ND		0.00190	mg/L			95.1	(75%-125%)		09/19/25 11:59
Solids Analysis												
Batch 2863347												
QC1206233435 742786010 DUP												
Total Dissolved Solids			107		108	mg/L	0.93			(0%-5%)	SC1	09/15/25 15:08
QC1206233433 LCS												
Total Dissolved Solids	300				301	mg/L			100	(95%-105%)		09/15/25 15:08
QC1206233432 MB												
Total Dissolved Solids				J	4.00	mg/L						09/15/25 15:08
Batch 2863828												
QC1206234558 742081005 DUP												
Total Dissolved Solids			252		284	mg/L	11.9	*		(0%-5%)	SC1	09/15/25 15:08
QC1206234557 LCS												
Total Dissolved Solids	300				303	mg/L			101	(95%-105%)		09/15/25 15:08
QC1206234556 MB												
Total Dissolved Solids				U	ND	mg/L						09/15/25 15:08
Batch 2864050												
QC1206235091 742786003 DUP												
Total Dissolved Solids			106		104	mg/L	1.9			(0%-5%)	SC1	09/16/25 20:11

QC Summary

Workorder: **742786**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2864050										
QC1206235088 LCS										
Total Dissolved Solids	300			296	mg/L		98.7	(95%-105%)	SC1	09/16/25 20:11
QC1206235087 MB										
Total Dissolved Solids			U	ND	mg/L					09/16/25 20:11
Batch 2864896										
QC1206236725 742809001 DUP										
Total Dissolved Solids		26.0		23.0	mg/L	12.2 ^		(+/-10.0)	SC1	09/17/25 17:56
QC1206236724 LCS										
Total Dissolved Solids	300			297	mg/L		99	(95%-105%)		09/17/25 17:56
QC1206236723 MB										
Total Dissolved Solids			U	ND	mg/L					09/17/25 17:56
Batch 2864898										
QC1206236734 742810003 DUP										
Total Dissolved Solids		103		22.0	mg/L	130 *^		(+/-10.0)	SC1	09/17/25 19:03
QC1206236732 LCS										
Total Dissolved Solids	300			295	mg/L		98.3	(95%-105%)		09/17/25 19:03
QC1206236731 MB										
Total Dissolved Solids			U	ND	mg/L					09/17/25 19:03

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded

QC Summary

Workorder: **742786**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d	5-day BOD--The 2:1 depletion requirement was not met for this sample
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B	The target analyte was detected in the associated blank.
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
x	Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 742786

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 37
Analytical Batch: 2863218

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2863217

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
742786001	MCM-MCM-01
742786002	MCM-MCM-02
742786003	MCM-MCM-04
742786004	MCM-MCM-05
742786005	MCM-MCM-06
742786006	MCM-MCM-07
742786007	MCM-MCM-11
742786008	MCM-MCM-12
742786009	MCM-MCM-14
742786010	MCM-MCM-15
742786011	MCM-MCM-16
742786012	MCM-MCM-17
1206233223	Method Blank (MB)**ICP-MS**
1206233224	Laboratory Control Sample (LCS)
1206233228	742786001(MCM-MCM-01L) Serial Dilution (SD)
1206233225	742786001(MCM-MCM-01S) Matrix Spike (MS)
1206233226	742786001(MCM-MCM-01SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target

analyte concentrations into the linear calibration range. Samples 742786004 (MCM-MCM-05), 742786005 (MCM-MCM-06), 742786006 (MCM-MCM-07), 742786008 (MCM-MCM-12), 742786009 (MCM-MCM-14) and 742786012 (MCM-MCM-17) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.
Per the SOP, samples 742786004 (MCM-MCM-05), 742786005 (MCM-MCM-06), 742786006 (MCM-MCM-07), 742786009 (MCM-MCM-14) and 742786012 (MCM-MCM-17) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	742786					
	004	**005**	**006**	**008**	**009**	**012**
Arsenic	5X	5X	5X		5X	5X
Beryllium	5X	5X			5X	5X
Boron	5X	5X	5X	10X	5X	20X
Calcium	5X	5X	5X		5X	20X
Lithium	5X	5X			5X	5X
Selenium	5X	5X	5X		5X	5X

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 37
Analytical Batch: 2863220

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2863219

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
742786013	MCM-MCM-18
742786014	MCM-MCM-19
742786015	MCM-MCM-20
742786016	MCM-DPZ-02
742786017	MCM-AP1-FD-01
742786018	MCM-AP1-FD-02
742786019	MCM-AP1-FB-01
742786020	MCM-AP1-FB-02
742786021	MCM-AP1-EB-01
742786022	MCM-AP1-EB-02
1206233229	Method Blank (MB)**ICP-MS**
1206233230	Laboratory Control Sample (LCS)
1206233234	742786013(MCM-MCM-18L) Serial Dilution (SD)
1206233231	742786013(MCM-MCM-18S) Matrix Spike (MS)
1206233232	742786013(MCM-MCM-18SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the

following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 742786014 (MCM-MCM-19), 742786015 (MCM-MCM-20), 742786016 (MCM-DPZ-02) and 742786017 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.
Per the SOP, samples 742786014 (MCM-MCM-19), 742786015 (MCM-MCM-20), 742786016 (MCM-DPZ-02) and 742786017 (MCM-AP1-FD-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	742786			
	014	**015**	**016**	**017**
Arsenic	5X	5X	5X	5X
Beryllium	5X	5X	5X	5X
Boron	5X	5X	10X	5X
Calcium	5X		5X	5X
Lithium	5X	5X	5X	5X
Selenium	5X	5X	5X	5X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 42
Analytical Batch: 2865010

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 42
Preparation Batch: 2865008

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
742786001	MCM-MCM-01
742786002	MCM-MCM-02
742786003	MCM-MCM-04
742786004	MCM-MCM-05
742786005	MCM-MCM-06
742786006	MCM-MCM-07
742786007	MCM-MCM-11
742786008	MCM-MCM-12
742786009	MCM-MCM-14
742786010	MCM-MCM-15
742786011	MCM-MCM-16

742786012	MCM-MCM-17
742786013	MCM-MCM-18
742786014	MCM-MCM-19
742786015	MCM-MCM-20
742786016	MCM-DPZ-02
742786017	MCM-AP1-FD-01
742786018	MCM-AP1-FD-02
742786019	MCM-AP1-FB-01
742786020	MCM-AP1-FB-02
1206236946	Method Blank (MB)**CVAA**
1206236947	Laboratory Control Sample (LCS)
1206236948	742786001(MCM-MCM-01D) Sample Duplicate (DUP)
1206236949	742786001(MCM-MCM-01S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 42
Analytical Batch: 2865017

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 42
Preparation Batch: 2865015

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
742786021	MCM-AP1-EB-01
742786022	MCM-AP1-EB-02
1206236967	Method Blank (MB)**CVAA**
1206236968	Laboratory Control Sample (LCS)
1206236969	742696001(NonSDGD) Sample Duplicate (DUP)
1206236970	742696001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**

Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 37
Analytical Batch: 2863718

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
742786001	MCM-MCM-01
742786002	MCM-MCM-02
742786003	MCM-MCM-04
742786004	MCM-MCM-05
742786005	MCM-MCM-06
742786006	MCM-MCM-07
742786007	MCM-MCM-11
742786008	MCM-MCM-12
742786009	MCM-MCM-14
742786010	MCM-MCM-15
742786011	MCM-MCM-16
742786012	MCM-MCM-17
742786013	MCM-MCM-18
742786014	MCM-MCM-19
742786015	MCM-MCM-20
742786016	MCM-DPZ-02
742786017	MCM-AP1-FD-01
742786018	MCM-AP1-FD-02
742786019	MCM-AP1-FB-01
742786020	MCM-AP1-FB-02
1206234279	Method Blank (MB)
1206234280	Laboratory Control Sample (LCS)
1206234281	742786001(MCM-MCM-01) Sample Duplicate (DUP)
1206234282	742786011(MCM-MCM-16) Sample Duplicate (DUP)
1206234283	742786001(MCM-MCM-01) Matrix Spike (MS)
1206234284	742786011(MCM-MCM-16) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 742786004 (MCM-MCM-05), 742786005 (MCM-MCM-06), 742786006 (MCM-MCM-07), 742786007 (MCM-MCM-11), 742786008 (MCM-MCM-12), 742786009 (MCM-MCM-14), 742786012 (MCM-MCM-17), 742786013 (MCM-MCM-18), 742786014 (MCM-MCM-19), 742786015 (MCM-MCM-20), 742786016 (MCM-DPZ-02) and 742786017 (MCM-AP1-FD-01) were diluted because target analyte concentrations exceeded the calibration range.
Samples 742786004 (MCM-MCM-05), 742786005 (MCM-MCM-06), 742786006 (MCM-MCM-07), 742786009 (MCM-MCM-14), 742786013 (MCM-MCM-18), 742786014 (MCM-MCM-19), 742786015 (MCM-MCM-20), 742786016 (MCM-DPZ-02) and 742786017 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance.
Samples 1206234281 (MCM-MCM-01DUP), 1206234282 (MCM-MCM-16DUP), 1206234283 (MCM-MCM-01MS), 1206234284 (MCM-MCM-16MS), 742786001 (MCM-MCM-01), 742786002 (MCM-MCM-02), 742786003 (MCM-MCM-04), 742786004 (MCM-MCM-05), 742786005 (MCM-MCM-06),

742786006 (MCM-MCM-07), 742786007 (MCM-MCM-11), 742786008 (MCM-MCM-12), 742786009 (MCM-MCM-14), 742786010 (MCM-MCM-15), 742786011 (MCM-MCM-16), 742786012 (MCM-MCM-17), 742786013 (MCM-MCM-18), 742786014 (MCM-MCM-19), 742786015 (MCM-MCM-20), 742786016 (MCM-DPZ-02), 742786017 (MCM-AP1-FD-01) and 742786018 (MCM-AP1-FD-02) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	742786									
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**010**
Chloride	5X	5X	5X	1000X	2000X	1000X	20X	50X	1000X	5X
Fluoride	1X	1X	1X	5X	5X	5X	1X	1X	5X	1X
Sulfate	5X	5X	5X	100X	100X	50X	5X	1X	100X	5X

Analyte	742786							
	011	**012**	**013**	**014**	**015**	**016**	**017**	**018**
Chloride	5X	1000X	200X	1000X	1000X	1000X	1000X	1X
Fluoride	1X	5X	5X	5X	5X	5X	5X	1X
Sulfate	5X	50X	10X	100X	50X	50X	50X	5X

Sample Re-analysis
Each sample was initially analyzed at a dilution based on historical data. Upon review of the data, the samples were re-analyzed undiluted. Results reported from both sets. 1206234281 (MCM-MCM-01DUP), 1206234282 (MCM-MCM-16DUP), 1206234283 (MCM-MCM-01MS), 1206234284 (MCM-MCM-16MS), 742786001 (MCM-MCM-01), 742786002 (MCM-MCM-02), 742786003 (MCM-MCM-04), 742786007 (MCM-MCM-11), 742786008 (MCM-MCM-12), 742786010 (MCM-MCM-15), 742786011 (MCM-MCM-16) and 742786018 (MCM-AP1-FD-02).

Miscellaneous Information

Manual Integrations
Samples 742786003 (MCM-MCM-04), 742786008 (MCM-MCM-12) and 742786010 (MCM-MCM-15) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 37
Analytical Batch: 2863720

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
742786021	MCM-AP1-EB-01
742786022	MCM-AP1-EB-02
1206234301	Method Blank (MB)
1206234302	Laboratory Control Sample (LCS)
1206234303	742810003(NonSDG) Sample Duplicate (DUP)
1206234304	742810003(NonSDG) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Sulfate	1206234304 (Non SDG 742810003MS)	88.1* (90%-110%)

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2863347

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
742786001	MCM-MCM-01
742786004	MCM-MCM-05
742786005	MCM-MCM-06
742786008	MCM-MCM-12
742786009	MCM-MCM-14
742786010	MCM-MCM-15
742786013	MCM-MCM-18
742786014	MCM-MCM-19
742786015	MCM-MCM-20
742786017	MCM-AP1-FD-01
1206233432	Method Blank (MB)
1206233433	Laboratory Control Sample (LCS)
1206233435	742786010(MCM-MCM-15) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the samples for approximate concentration prior to analysis. 742786004 (MCM-MCM-05), 742786005 (MCM-MCM-06), 742786009 (MCM-MCM-14), 742786013 (MCM-MCM-18), 742786014 (MCM-MCM-19), 742786015 (MCM-MCM-20) and 742786017 (MCM-AP1-FD-01).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2863828

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
742786019	MCM-AP1-FB-01
742786021	MCM-AP1-EB-01
1206234556	Method Blank (MB)
1206234557	Laboratory Control Sample (LCS)
1206234558	742081005(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1206234558 (Non SDG 742081005DUP)	11.9* (0%-5%)

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2864050

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
742786002	MCM-MCM-02
742786003	MCM-MCM-04
1206235087	Method Blank (MB)
1206235088	Laboratory Control Sample (LCS)
1206235091	742786003(MCM-MCM-04) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2864896

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
742786007	MCM-MCM-11
742786011	MCM-MCM-16
742786016	MCM-DPZ-02
742786018	MCM-AP1-FD-02
742786020	MCM-AP1-FB-02
742786022	MCM-AP1-EB-02
1206236723	Method Blank (MB)
1206236724	Laboratory Control Sample (LCS)
1206236725	742809001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A TDS meter was used to check the sample for approximate concentration prior to analysis. 742786016 (MCM-DPZ-02).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2864898

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
742786006	MCM-MCM-07
742786012	MCM-MCM-17
1206236731	Method Blank (MB)
1206236732	Laboratory Control Sample (LCS)
1206236734	742810003(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement
The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1206236734 (Non SDG 742810003DUP)	abs(22 - 103)* (+/-10 mg/L)

Miscellaneous Information

Additional Comments
A TDS meter was used to check the samples for approximate concentration prior to analysis. 742786006 (MCM-MCM-07) and 742786012 (MCM-MCM-17).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number (1):
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

742786
742787

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2025 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Natalie Piparo, William Laaker, Shannon Northen (EnSafe) Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228						<-- Preservative Type (6)
MCM-MCM-01	9/9/25	1522	G	N	WG			7	X	X	X	X	X						
MCM-MCM-02	9/10/25	1223	G	N	WG			7	X	X	X	X	X						
MCM-MCM-04	9/10/25	1536	G	N	WG			7	X	X	X	X	X						
MCM-MCM-05	9/9/25	1645	G	N	WG			7	X	X	X	X	X						
MCM-MCM-06	9/9/25	1458	G	N	WG			7	X	X	X	X	X						
MCM-MCM-07	9/11/25	0956	G	N	WG			7	X	X	X	X	X						
MCM-MCM-11	9/10/25	1514	G	N	WG			7	X	X	X	X	X						
MCM-MCM-12	9/9/25	1123	G	N	WG			7	X	X	X	X	X						
MCM-MCM-14	9/9/25	~~1119~~ 1135	G	N	WG			7	X	X	X	X	X						
MCM-MCM-15	9/9/25	1651	G	N	WG			7	X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	9-12-25	1230	1	9/12/25	1230
2			2		
3			3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 2 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* **- 3**, *6010B/7470A* **- 1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 2 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: ***GEL Project Manager: Erin Trent***

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2025 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Natalie Piparo, William Laaker, Shannon Northen (EnSafe) Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * *For composites - indicate start and stop date/time*	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca)	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	Radium 226/228	<-- Preservative Type (6)	Comments
MCM-MCM-16	9/10/25	1030	G	N	WG			7	X	X	X	X	X		Note: extra sample is required for sample specific QC
MCM-MCM-17	9/11/25	1017	G	N	WG			7	X	X	X	X	X		
MCM-MCM-18	9/9/25	1127	G	N	WG			7	X	X	X	X	X		
MCM-MCM-19	9/9/25	1445	G	N	WG			7	X	X	X	X	X		
MCM-MCM-20	9/9/25	1600	G	N	WG			7	X	X	X	X	X		
MCM-DPZ-02	9/10/25	1041	G	N	WG			7	X	X	X	X	X		
MCM-AP1-FD-01	9/9/25	—	FD	N	WG			7	X	X	X	X	X		
MCM-AP1-FD-02	9/10/25	—	FD	N	WG			7	X	X	X	X	X		
MCM-AP1-FB-01	9/9/25	1658	FB	N	WQ			7	X	X	X	X	X		
MCM-AP1-FB-02	9/10/25	1620	FB	N	WQ			7	X	X	X	X	X		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] EnSafe	9-12-25	1230	1 [signature]	9/12/25	9230
2			2		
3			3		

TAT Requested: **Normal:** ____ **Rush:** ____ **Specify:** ____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 2 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* **- 3**, *6010B/7470A* **- 1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

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As = Arsenic **Hg**= Mercury
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Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 3 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Erin Trent

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #

Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2025 Fax #

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Natalie Piparo, William Laaker, Shannon Northen (EnSafe) Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * *For composites - indicate start and stop date/time*	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228	<-- Preservative Type (6)
MCM-AP1-EB-01	9/9/25	1707	EB	N	WQ			7	X	X	X	X	X	
MCM-AP1-EB-02	9/10/25	1629	EB	N	WQ			7	X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] EnSafe	9-12-25	1230	[signature]	9/12/25	1230
2						
3						

TAT Requested: Normal: _____ Rush: _____ Specify: _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S2**

For Lab Receiving Use Only: Custody Seal Intact? [ ] *Yes* [ ] *No* *Cooler Temp:* 3 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM 742787

Client: GPCC | SDG/AR/COC/Work Order: 742788 742789 742786 | GEL PM:

Received By: Joel Boatwright | Date Received at GEL: 9.12.25

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
Cooler 1	24		Cooler 6	22	
Cooler 2	23		Cooler 7	3	
Cooler 3	23				
Cooler 4	2				
Cooler 5	2				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?			Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?			COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?			If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?			Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?				Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?				Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?				Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?				Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)				If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?				IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?				IDs and containers affected:
9	Date & time on COC match date & time on bottles?				Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Missing Container (provide details) Other (describe) received additional container for MCMPM(M-05
11	Are sample containers identifiable as GEL provided by use of GEL labels?				
12	COC form is properly signed in relinquished/received sections?				Circle Applicable: Not relinquished Other (describe)

Comments:
and 06 as well 9/16/25 AP

PM (or PMA) review: Initials SH Date 9/15/25

☐ Continuation Form Required when selected

List of current GEL Certifications as of 29 September 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approval	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of LA	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 26, 2025

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance Sept. 2025
Work Order: 742788

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 12, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
742788001	MCM-MCM-05	Ground Water	09/09/25 16:45	09/12/25 12:30
742788002	MCM-MCM-06	Ground Water	09/09/25 14:58	09/12/25 12:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

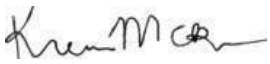
Method	Run Date ID
SW846 3005A	17-SEP-2025

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	26-SEP-2025

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,



Kierra McKnight for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 742788 GEL Work Order: 742788

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL

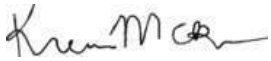
J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by 

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 26, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-MCM-05	Project:	GPCC00105
Sample ID:	742788001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	09-SEP-25 16:45		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (Fe) "As Received"												
Iron		0.138	0.0330	0.100	mg/L	1.00	1	PRB	09/26/25	0615	2864488	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HC1	09/17/25	0900	2864487

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 26, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	742788002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	09-SEP-25 14:58		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (Fe) "As Received"												
Iron	J	0.0724	0.0330	0.100	mg/L	1.00	1	PRB	09/26/25	0626	2864488	1

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HC1	09/17/25	0900	2864487

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: September 26, 2025

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **742788**

Parmname			NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS												
Batch 2864488												
QC1206235968	LCS											
Iron			2.00			2.07	mg/L		103	(80%-120%)	PRB	09/26/25 06:13
QC1206235967	MB											
Iron					U	ND	mg/L					09/26/25 06:11
QC1206235969	742788001	MS										
Iron			2.00	0.138		1.98	mg/L		92.1	(75%-125%)		09/26/25 06:17
QC1206235970	742788001	MSD										
Iron			2.00	0.138		1.99	mg/L	0.304	92.4	(0%-20%)		09/26/25 06:20
QC1206235972	742788001	SDILT										
Iron				138	U	ND	ug/L	N/A		(0%-20%)		09/26/25 06:24

Notes:

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit

QC Summary

Workorder: **742788**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.

FB Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

x Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 742788

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 37
Analytical Batch: 2864488

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2864487

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
742788001	MCM-MCM-05
742788002	MCM-MCM-06
1206235967	Method Blank (MB)**ICP-MS**
1206235968	Laboratory Control Sample (LCS)
1206235972	742788001(MCM-MCM-05L) Serial Dilution (SD)
1206235969	742788001(MCM-MCM-05S) Matrix Spike (MS)
1206235970	742788001(MCM-MCM-05SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

742788

Page: 1 of 1
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2025 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Natalie Piparo, William Laaker, Shannon Northen (EnSafe)
Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals (Fe)	NI	<-- Preservative Type (6)	Comments
MCM-MCM-05	9/9/25	1645	G	N	WG			1	X			Note: extra sample is required for sample specific QC
MCM-MCM-06	9/9/25	1458	G	N	WG			1	X			

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] EnSafe	9-12-25	1232	1 [signature]	9/12/25	1230
2			2		
3			3		

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 24 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B, 6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM 742787

Client: GPCC | SDG/AR/COC/Work Order: 742788 742789 742786 | GEL PM:

Received By: Joel Boatwright | Date Received at GEL: 9.12.25

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
Cooler 1	24		Cooler 6	22	
Cooler 2	23		Cooler 7	3	
Cooler 3	23				
Cooler 4	2				
Cooler 5	2				

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?			Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?			COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr. Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?			If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?			Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: (Wet Ice) Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)				If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe) 9/16/25 AP received additional container for MCM-MCM-05
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:
and 06 as well

PM (or PMA) review: Initials SH Date 9/15/25

☐ Continuation Form Required when selected

List of current GEL Certifications as of 26 September 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approval	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of LA	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171

gel.com

October 06, 2025

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance Relog: radiochemistry
Work Order: 742787

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 12, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
742787001	MCM-MCM-01	Ground Water	09/09/25 15:22	09/12/25 12:30
742787002	MCM-MCM-02	Ground Water	09/10/25 12:23	09/12/25 12:30
742787003	MCM-MCM-04	Ground Water	09/10/25 15:36	09/12/25 12:30
742787004	MCM-MCM-05	Ground Water	09/09/25 16:45	09/12/25 12:30
742787005	MCM-MCM-06	Ground Water	09/09/25 14:58	09/12/25 12:30
742787006	MCM-MCM-07	Ground Water	09/11/25 09:56	09/12/25 12:30
742787007	MCM-MCM-11	Ground Water	09/10/25 15:14	09/12/25 12:30
742787008	MCM-MCM-12	Ground Water	09/09/25 11:23	09/12/25 12:30
742787009	MCM-MCM-14	Ground Water	09/09/25 11:35	09/12/25 12:30
742787010	MCM-MCM-15	Ground Water	09/09/25 16:51	09/12/25 12:30
742787011	MCM-MCM-16	Ground Water	09/10/25 10:30	09/12/25 12:30
742787012	MCM-MCM-17	Ground Water	09/11/25 10:17	09/12/25 12:30
742787013	MCM-MCM-18	Ground Water	09/09/25 11:27	09/12/25 12:30
742787014	MCM-MCM-19	Ground Water	09/09/25 14:45	09/12/25 12:30
742787015	MCM-MCM-20	Ground Water	09/09/25 16:00	09/12/25 12:30
742787016	MCM-DPZ-02	Ground Water	09/10/25 10:41	09/12/25 12:30

742787017	MCM-AP1-FD-01	Ground Water	09/09/25 12:00	09/12/25 12:30
742787018	MCM-AP1-FD-02	Ground Water	09/10/25 12:00	09/12/25 12:30
742787019	MCM-AP1-FB-01	Water	09/09/25 16:58	09/12/25 12:30
742787020	MCM-AP1-FB-02	Water	09/10/25 16:20	09/12/25 12:30
742787021	MCM-AP1-EB-01	Water	09/09/25 17:07	09/12/25 12:30
742787022	MCM-AP1-EB-02	Water	09/10/25 16:29	09/12/25 12:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

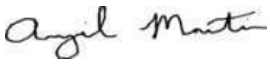
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	06-OCT-2025
EPA 903.1 Modified	02-OCT-2025
EPA 903.1 Modified	05-OCT-2025
EPA 903.1 Modified	06-OCT-2025
EPA 904.0/SW846 9320 Modified	02-OCT-2025
EPA 904.0/SW846 9320 Modified	26-SEP-2025

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,



Abagail Martin for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 742787 GEL Work Order: 742787

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

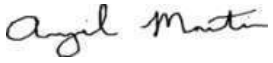
** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by 

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 6, 2025

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-MCM-01
Sample ID: 742787001
Matrix: WG
Collect Date: 09-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.870	+/-1.03	1.74	+/-1.06	3.00	pCi/L			CH7	10/02/25	1132	2863665	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.27	+/-1.14	1.74	+/-1.19		pCi/L			LXB3	10/06/25	0912	2863666	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.40	+/-0.492	0.325	+/-0.532	1.00	pCi/L			AW6	10/02/25	0936	2865030	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863665	86.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 6, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-MCM-02
Sample ID: 742787002
Matrix: WG
Collect Date: 10-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.164	+/-1.01	1.86	+/-1.01	3.00	pCi/L			CH7	10/02/25	1132	2863665	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.597	+/-1.08	1.86	+/-1.09		pCi/L			LXB3	10/06/25	0912	2863666	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.434	+/-0.402	0.637	+/-0.414	1.00	pCi/L			AW6	10/02/25	0936	2865030	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863665	80.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 6, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-MCM-04
Sample ID: 742787003
Matrix: WG
Collect Date: 10-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.11	+/-1.28	2.16	+/-1.32	3.00	pCi/L			CH7	10/02/25	1132	2863665	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.28	+/-1.36	2.16	+/-1.41		pCi/L			LXB3	10/06/25	0912	2863666	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.18	+/-0.448	0.376	+/-0.501	1.00	pCi/L			AW6	10/02/25	0936	2865030	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863665	82.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 6, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-MCM-05
Sample ID: 742787004
Matrix: WG
Collect Date: 09-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		4.15	+/-1.25	1.49	+/-1.71	3.00	pCi/L			CH7	10/02/25	1132	2863665	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		7.73	+/-1.55	1.49	+/-2.01		pCi/L			LXB3	10/06/25	0912	2863666	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.58	+/-0.907	0.736	+/-1.06	1.00	pCi/L			AW6	10/02/25	0936	2865030	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863665	87.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 6, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-MCM-06
Sample ID: 742787005
Matrix: WG
Collect Date: 09-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		5.13	+/-1.47	1.72	+/-2.06	3.00	pCi/L			CH7	10/02/25	1132	2863665	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		11.8	+/-2.02	1.72	+/-2.71		pCi/L			LXB3	10/06/25	0912	2863666	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		6.68	+/-1.39	0.436	+/-1.76	1.00	pCi/L			AW6	10/06/25	0810	2865030	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863665	84	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-MCM-07
Sample ID: 742787006
Matrix: WG
Collect Date: 11-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.32	+/-1.22	1.60	+/-1.53	3.00	pCi/L			CH7	10/02/25	1132	2863665	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		6.67	+/-1.49	1.60	+/-1.84		pCi/L			LXB3	10/06/25	0912	2863666	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.35	+/-0.854	0.420	+/-1.01	1.00	pCi/L			AW6	10/02/25	1014	2865030	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863665	92.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-MCM-11
Sample ID: 742787007
Matrix: WG
Collect Date: 10-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.91	+/-1.19	1.81	+/-1.30	3.00	pCi/L			CH7	10/02/25	1132	2863665	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.95	+/-1.28	1.81	+/-1.40		pCi/L			LXB3	10/06/25	0912	2863666	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.04	+/-0.484	0.559	+/-0.516	1.00	pCi/L			AW6	10/02/25	1014	2865030	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863665	82.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-MCM-12
Sample ID: 742787008
Matrix: WG
Collect Date: 09-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.44	+/-1.02	1.58	+/-1.09	3.00	pCi/L			CH7	10/02/25	1132	2863665	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.52	+/-1.13	1.58	+/-1.21		pCi/L			LXB3	10/06/25	0912	2863666	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.08	+/-0.486	0.531	+/-0.517	1.00	pCi/L			AW6	10/02/25	1014	2865030	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863665	96.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-MCM-14
Sample ID: 742787009
Matrix: WG
Collect Date: 09-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		5.44	+/-1.42	1.61	+/-2.08	3.00	pCi/L			CH7	10/02/25	1132	2863665	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		8.36	+/-1.59	1.61	+/-2.25		pCi/L			LXB3	10/06/25	0912	2863666	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.92	+/-0.732	0.354	+/-0.871	1.00	pCi/L			AW6	10/02/25	1014	2865030	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863665	88.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-MCM-15
Sample ID: 742787010
Matrix: WG
Collect Date: 09-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		1.96	+/-1.06	1.55	+/-1.19	3.00	pCi/L			CH7	10/02/25	1132	2863665	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.57	+/-1.12	1.55	+/-1.25		pCi/L			LXB3	10/06/25	0912	2863666	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.612	+/-0.367	0.452	+/-0.381	1.00	pCi/L			AW6	10/02/25	1014	2865030	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863665	88.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-MCM-16
Sample ID: 742787011
Matrix: WG
Collect Date: 10-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.47	+/-1.16	1.63	+/-1.35	3.00	pCi/L			CH7	10/02/25	1132	2863665	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.03	+/-1.23	1.63	+/-1.41		pCi/L			LXB3	10/06/25	0912	2863666	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.562	+/-0.411	0.576	+/-0.427	1.00	pCi/L			AW6	10/02/25	1014	2865030	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863665	89.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-MCM-17
Sample ID: 742787012
Matrix: WG
Collect Date: 11-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.39	+/-1.11	1.40	+/-1.46	3.00	pCi/L			CH7	10/02/25	1132	2863665	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		5.59	+/-1.27	1.40	+/-1.62		pCi/L			LXB3	10/06/25	0912	2863666	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.20	+/-0.615	0.398	+/-0.714	1.00	pCi/L			AW6	10/02/25	1049	2865030	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863665	100	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Client Sample ID: MCM-MCM-18
Sample ID: 742787013
Matrix: WG
Collect Date: 09-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		5.13	+/-1.42	1.67	+/-2.01	3.00	pCi/L			CH7	10/02/25	1132	2863665	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		7.52	+/-1.61	1.67	+/-2.20		pCi/L			LXB3	10/06/25	0912	2863666	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.39	+/-0.773	0.713	+/-0.875	1.00	pCi/L			AW6	10/02/25	1049	2865030	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863665	93.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
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Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-MCM-19
Sample ID: 742787014
Matrix: WG
Collect Date: 09-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		13.7	+/-1.99	1.63	+/-4.31	3.00	pCi/L			CH7	10/02/25	1132	2863665	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		20.7	+/-2.50	1.63	+/-4.71		pCi/L			LXB3	10/06/25	0912	2863666	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		7.01	+/-1.52	0.497	+/-1.90	1.00	pCi/L			AW6	10/06/25	0810	2865030	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863665	86.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-MCM-20
Sample ID: 742787015
Matrix: WG
Collect Date: 09-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		28.2	+/-2.69	1.44	+/-8.34	3.00	pCi/L			CH7	10/02/25	1132	2863665	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		30.8	+/-2.77	1.44	+/-8.38		pCi/L			LXB3	10/06/25	0912	2863666	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.55	+/-0.658	0.447	+/-0.809	1.00	pCi/L			AW6	10/02/25	1049	2865030	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863665	86.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
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Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-DPZ-02
Sample ID: 742787016
Matrix: WG
Collect Date: 10-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.28	+/-1.08	1.53	+/-1.26	3.00	pCi/L			CH7	10/02/25	1135	2863665	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		6.24	+/-1.35	1.53	+/-1.66		pCi/L			LXB3	10/06/25	0912	2863666	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.96	+/-0.808	0.322	+/-1.08	1.00	pCi/L			AW6	10/02/25	1049	2865030	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863665	89.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
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Atlanta, Georgia 30308

Report Date: October 6, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-AP1-FD-01
Sample ID: 742787017
Matrix: WG
Collect Date: 09-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		5.08	+/-1.62	2.03	+/-2.17	3.00	pCi/L			CH7	10/02/25	1135	2863665	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		8.34	+/-1.80	2.03	+/-2.39		pCi/L			LXB3	10/06/25	0912	2863666	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.25	+/-0.778	0.631	+/-0.991	1.00	pCi/L			AW6	10/02/25	1049	2865030	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863665	68.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: October 6, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-AP1-FD-02
Sample ID: 742787018
Matrix: WG
Collect Date: 10-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.89	+/-1.31	2.03	+/-1.42	3.00	pCi/L			CH7	10/02/25	1135	2863665	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.66	+/-1.37	2.03	+/-1.48		pCi/L			LXB3	10/06/25	0912	2863666	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.771	+/-0.388	0.347	+/-0.427	1.00	pCi/L			AW6	10/02/25	1049	2865030	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863665	69.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: October 6, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-AP1-FB-01
Sample ID: 742787019
Matrix: WQ
Collect Date: 09-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.42	+/-0.960	1.47	+/-1.04	3.00	pCi/L			CH7	10/02/25	1135	2863665	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.61	+/-1.10	1.47	+/-1.20		pCi/L			LXB3	10/06/25	0912	2863666	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.20	+/-0.542	0.617	+/-0.607	1.00	pCi/L			AW6	10/02/25	1124	2865030	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863665	86.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company
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Report Date: October 6, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-AP1-FB-02
Sample ID: 742787020
Matrix: WQ
Collect Date: 10-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.600	+/-1.05	1.84	+/-1.06	3.00	pCi/L			CH7	10/02/25	1135	2863665	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.990	+/-1.09	1.84	+/-1.11		pCi/L			LXB3	10/06/25	0912	2863666	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.390	+/-0.302	0.373	+/-0.309	1.00	pCi/L			AW6	10/02/25	1124	2865030	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863665	76.8	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company
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Report Date: October 6, 2025

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-AP1-EB-01
Sample ID: 742787021
Matrix: WQ
Collect Date: 09-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.15	+/-1.09	1.79	+/-1.14	3.00	pCi/L			CH7	09/26/25	0856	2863644	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.61	+/-1.16	1.79	+/-1.20		pCi/L			LXB3	10/06/25	0851	2871840	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.467	+/-0.379	0.581	+/-0.395	1.00	pCi/L			AW6	10/05/25	0955	2865038	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863644	74.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: October 6, 2025

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: radiochemistry

Client Sample ID: MCM-AP1-EB-02
Sample ID: 742787022
Matrix: WQ
Collect Date: 10-SEP-25
Receive Date: 12-SEP-25
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.77	+/-1.17	1.79	+/-1.27	3.00	pCi/L			CH7	09/26/25	0856	2863644	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.00	+/-1.19	1.79	+/-1.29		pCi/L			LXB3	10/06/25	0851	2871840	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.232	+/-0.234	0.366	+/-0.238	1.00	pCi/L			AW6	10/05/25	0955	2865038	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2863644	78.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2863666

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
742787001	MCM-MCM-01
742787002	MCM-MCM-02
742787003	MCM-MCM-04
742787004	MCM-MCM-05
742787005	MCM-MCM-06
742787006	MCM-MCM-07
742787007	MCM-MCM-11
742787008	MCM-MCM-12
742787009	MCM-MCM-14
742787010	MCM-MCM-15
742787011	MCM-MCM-16
742787012	MCM-MCM-17
742787013	MCM-MCM-18
742787014	MCM-MCM-19
742787015	MCM-MCM-20
742787016	MCM-DPZ-02
742787017	MCM-AP1-FD-01
742787018	MCM-AP1-FD-02
742787019	MCM-AP1-FB-01
742787020	MCM-AP1-FB-02

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2871840

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
742787021	MCM-AP1-EB-01
742787022	MCM-AP1-EB-02

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2863644

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
742787021	MCM-AP1-EB-01
742787022	MCM-AP1-EB-02
1206234117	Method Blank (MB)
1206234119	Laboratory Control Sample (LCS)
1206236768	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Method Blank Criteria
The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1206234117 (MB)	Radium-228	Result: 0.569 pCi/L > MDA: 0.556 pCi/L <= RDL: 3.00 pCi/L

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2863665

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
742787001	MCM-MCM-01

742787002	MCM-MCM-02
742787003	MCM-MCM-04
742787004	MCM-MCM-05
742787005	MCM-MCM-06
742787006	MCM-MCM-07
742787007	MCM-MCM-11
742787008	MCM-MCM-12
742787009	MCM-MCM-14
742787010	MCM-MCM-15
742787011	MCM-MCM-16
742787012	MCM-MCM-17
742787013	MCM-MCM-18
742787014	MCM-MCM-19
742787015	MCM-MCM-20
742787016	MCM-DPZ-02
742787017	MCM-AP1-FD-01
742787018	MCM-AP1-FD-02
742787019	MCM-AP1-FB-01
742787020	MCM-AP1-FB-02
1206234151	Method Blank (MB)
1206234152	742787001(MCM-MCM-01) Sample Duplicate (DUP)
1206234153	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2865030

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
742787001	MCM-MCM-01
742787002	MCM-MCM-02
742787003	MCM-MCM-04
742787004	MCM-MCM-05
742787005	MCM-MCM-06
742787006	MCM-MCM-07
742787007	MCM-MCM-11
742787008	MCM-MCM-12
742787009	MCM-MCM-14
742787010	MCM-MCM-15
742787011	MCM-MCM-16
742787012	MCM-MCM-17
742787013	MCM-MCM-18
742787014	MCM-MCM-19

742787015	MCM-MCM-20
742787016	MCM-DPZ-02
742787017	MCM-AP1-FD-01
742787018	MCM-AP1-FD-02
742787019	MCM-AP1-FB-01
742787020	MCM-AP1-FB-02
1206236997	Method Blank (MB)
1206236998	742787001(MCM-MCM-01) Sample Duplicate (DUP)
1206236999	742787001(MCM-MCM-01) Matrix Spike (MS)
1206237000	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts
Samples 1206236997 (MB), 1206237000 (LCS), 742787005 (MCM-MCM-06) and 742787014 (MCM-MCM-19) were degassed and recounted to verify sample results. The second counts are reported.

Miscellaneous Information

Additional Comments
The matrix spike, 1206236999 (MCM-MCM-01MS), aliquot was reduced to conserve sample volume.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2865038

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
742787021	MCM-AP1-EB-01
742787022	MCM-AP1-EB-02
1206237018	Method Blank (MB)
1206237019	740728001(NonSDG) Sample Duplicate (DUP)
1206237020	740728001(NonSDG) Matrix Spike (MS)
1206237021	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Preparation Information

Aliquot Reduced
1206237019 (Non SDG 740728001DUP) and 1206237020 (Non SDG 740728001MS) Aliquots were reduced due to limited sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

QC Summary

Client : **Georgia Power Company**
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **742787**

Report Date: October 6, 2025

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2863644										
QC1206234119 LCS										
Radium-228	26.9			31.5	pCi/L		117	(75%-125%)	CH7	09/26/2508:56
	Uncert:			+/-1.80						
	TPU:			+/-9.03						
QC1206236768 LCSD										
Radium-228	26.9			31.3	pCi/L	.605	116	(0%-20%)	CH7	09/26/2508:56
	Uncert:			+/-1.80						
	TPU:			+/-8.93						
QC1206234117 MB										
Radium-228				0.569	pCi/L				CH7	09/26/2508:56
	Uncert:			+/-0.366						
	TPU:			+/-0.400						
Batch 2863665										
QC1206234152 742787001 DUP										
Radium-228	U	0.870	U	1.43	pCi/L	0		N/A	CH7	10/02/2511:35
	Uncert:	+/-1.03		+/-1.16						
	TPU:	+/-1.06		+/-1.23						
QC1206234153 LCS										
Radium-228	74.8			78.2	pCi/L		105	(75%-125%)	CH7	10/02/2511:35
	Uncert:			+/-4.44						
	TPU:			+/-22.7						
QC1206234151 MB										
Radium-228			U	1.47	pCi/L				CH7	10/02/2511:35
	Uncert:			+/-1.02						
	TPU:			+/-1.10						
Rad Ra-226										
Batch 2865030										
QC1206236998 742787001 DUP										
Radium-226		1.40		0.828	pCi/L	51.4		(0% - 100%)	AW6	10/02/2511:24
	Uncert:	+/-0.492		+/-0.391						
	TPU:	+/-0.532		+/-0.429						
QC1206237000 LCS										
Radium-226	27.0			26.6	pCi/L		98.4	(75%-125%)	AW6	10/06/2508:10
	Uncert:			+/-2.72						
	TPU:			+/-6.02						
QC1206236997 MB										
Radium-226			U	0.476	pCi/L				AW6	10/06/2508:10
	Uncert:			+/-0.418						
	TPU:			+/-0.426						
QC1206236999 742787001 MS										
Radium-226	132	1.40		152	pCi/L		114	(75%-125%)	AW6	10/02/2511:24

QC Summary

Workorder: **742787**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Ra-226										
Batch 2865030										
	Uncert:	+/-0.492		+/-11.7						
	TPU:	+/-0.532		+/-26.6						
Batch 2865038										
QC1206237019 740728001 DUP										
Radium-226		0.952		0.957	pCi/L	.536		(0% - 100%)	AW6	10/05/2509:55
	Uncert:	+/-0.510		+/-0.650						
	TPU:	+/-0.538		+/-0.680						
QC1206237021 LCS										
Radium-226	27.1			29.6	pCi/L		109	(75%-125%)	AW6	10/05/2510:26
	Uncert:			+/-2.22						
	TPU:			+/-5.25						
QC1206237018 MB										
Radium-226			U	0.224	pCi/L				AW6	10/05/2509:55
	Uncert:			+/-0.287						
	TPU:			+/-0.289						
QC1206237020 740728001 MS										
Radium-226	136	0.952		138	pCi/L		101	(75%-125%)	AW6	10/05/2510:26
	Uncert:	+/-0.510		+/-10.3						
	TPU:	+/-0.538		+/-33.6						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.

QC Summary

Workorder: **742787**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

L Analyte present. Reported value may be biased low. Actual value is expected to be higher.

N1 See case narrative

Y Other specific qualifiers were required to properly define the results. Consult case narrative.

** Analyte is a Tracer compound

M REMP Result > MDC/CL and < RDL

x Subaliquot was taken. See Case Narrative for details.

U Analyte was analyzed for, but not detected above the Critical Level.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Page: 1 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
gel.com | Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

742786
742787

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2025 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Natalie Piparo, William Laaker, Shannon Northen (EnSafe)
Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228						<-- Preservative Type (6)
MCM-MCM-01	9/9/25	1522	G	N	WG			7	X	X	X	X	X						
MCM-MCM-02	9/10/25	1223	G	N	WG			7	X	X	X	X	X						
MCM-MCM-04	9/10/25	1536	G	N	WG			7	X	X	X	X	X						
MCM-MCM-05	9/9/25	1645	G	N	WG			7	X	X	X	X	X						
MCM-MCM-06	9/9/25	1458	G	N	WG			7	X	X	X	X	X						
MCM-MCM-07	9/11/25	0956	G	N	WG			7	X	X	X	X	X						
MCM-MCM-11	9/10/25	1514	G	N	WG			7	X	X	X	X	X						
MCM-MCM-12	9/9/25	1123	G	N	WG			7	X	X	X	X	X						
MCM-MCM-14	9/9/25	~~1119~~ 1135	G	N	WG			7	X	X	X	X	X						
MCM-MCM-15	9/9/25	1651	G	N	WG			7	X	X	X	X	X						

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature]	9-12-25	1230	[signature]	9/12/25	1230
2						
3						

TAT Requested: **Normal:** _____ **Rush:** _____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 2 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

Sample Collection Time Zone : [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 2 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2025 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Natalie Piparo, William Laaker, Shannon Northen (EnSafe) Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228	<-- Preservative Type (6)	Comments
MCM-MCM-16	9/10/25	1030	G	N	WG			7	X	X	X	X	X		Note: extra sample is required for sample specific QC
MCM-MCM-17	9/11/25	1017	G	N	WG			7	X	X	X	X	X		
MCM-MCM-18	9/9/25	1127	G	N	WG			7	X	X	X	X	X		
MCM-MCM-19	9/9/25	1445	G	N	WG			7	X	X	X	X	X		
MCM-MCM-20	9/9/25	1600	G	N	WG			7	X	X	X	X	X		
MCM-DPZ-02	9/10/25	1041	G	N	WG			7	X	X	X	X	X		
MCM-AP1-FD-01	9/9/25	—	FD	N	WG			7	X	X	X	X	X		
MCM-AP1-FD-02	9/10/25	—	FD	N	WG			7	X	X	X	X	X		
MCM-AP1-FB-01	9/9/25	1658	FB	N	WQ			7	X	X	X	X	X		
MCM-AP1-FB-02	9/10/25	1620	FB	N	WQ			7	X	X	X	X	X		

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] EnSafe	9-12-25	1230	[signature]	9/12/25	9230
2						
3						

TAT Requested: **Normal:** _____ **Rush:** _____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 2 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 3 of 3
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]:
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Erin Trent*

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus CCR Groundwater Compliance Sept. 2025 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Natalie Piparo, William Laaker, Shannon Northen (EnSafe) Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of containers	NI Metals App. III (B, Ca)	NI Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	NI Radium 226/228	<-- Preservative Type (6)
MCM-AP1-EB-01	9/9/25	1707	EB	N	WQ			7	X	X	X	X	X	
MCM-AP1-EB-02	9/10/25	1629	EB	N	WQ			7	X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] EnSafe	9-12-25	1230	1 [signature]	9/12/25	1230
2			2		
3			3		

TAT Requested: Normal: ____ Rush: ____ Specify: ____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-ASSMT-2025S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] Yes [ ] No *Cooler Temp:* 3 °C

> *For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

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5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
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Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM 742787

Client: GPCC | SDG/AR/COC/Work Order: 742788 742789 742786 | GEL PM:

Received By: Joel Boatwright | Date Received at GEL: 9-12-25

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
Cooler 1	24		Cooler 6	22	
Cooler 2	23		Cooler 7	3	
Cooler 3	23				
Cooler 4	2				
Cooler 5	2				

Suspected Hazard Information	Yes	No	
			*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?			Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?			COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): ____ CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?			If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?			Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?				Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?				Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?				Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?				Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?				Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)				If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?				IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?				IDs and containers affected:
9	Date & time on COC match date & time on bottles?				Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Missing Container (provide details) Other (describe) received additional containers for MCM-05
11	Are sample containers identifiable as GEL provided by use of GEL labels?				
12	COC form is properly signed in relinquished/received sections?				Circle Applicable: Not relinquished Other (describe)

Comments:
and 06 as well 9/16/25 AP

PM (or PMA) review: Initials SH Date 9/15/25

☐ Continuation Form Required when selected

List of current GEL Certifications as of 06 October 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approval	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of LA	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

September 29, 2025

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance Sept. 2025
Work Order: 742789

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 12, 2025. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
742789001	MCM-PT-03	Ground Water	09/10/25 12:12	09/12/25 12:30
742789002	MCM-DR-02	Ground Water	09/10/25 12:28	09/12/25 12:30
742789003	MCM-DR-03	Ground Water	09/10/25 15:45	09/12/25 12:30
742789004	MCM-INW-01	Ground Water	09/10/25 10:38	09/12/25 12:30
742789005	MCM-AP1-FD-01	Ground Water	09/10/25 12:00	09/12/25 12:30
742789006	MCM-AP1-FB-01	Water	09/10/25 16:37	09/12/25 12:30
742789007	MCM-AP1-EB-01	Water	09/10/25 16:43	09/12/25 12:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

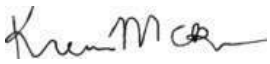
Method	Run Date ID
SW846 3005A	13-SEP-2025

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	27-SEP-2025

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. .

Sincerely,



Kierra McKnight for
Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 742789 GEL Work Order: 742789

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

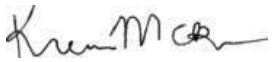
** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Alaina Pinnick.

Reviewed by 

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	742789001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-SEP-25 12:12		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As, Fe) "As Received"												
Arsenic		0.0443	0.0100	0.0250	mg/L	1.00	5	PRB	09/27/25	0454	2863227	1
Iron	U	ND	0.165	0.500	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HC1	09/13/25	1000	2863224

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	742789002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-SEP-25 12:28		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As, Fe) "As Received"												
Arsenic		0.148	0.0100	0.0250	mg/L	1.00	5	PRB	09/27/25	0515	2863227	1
Iron		0.636	0.165	0.500	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HC1	09/13/25	1000	2863224

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	742789003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-SEP-25 15:45		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As, Fe) "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	PRB	09/27/25	0518	2863227	1
Iron		1.34	0.165	0.500	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HC1	09/13/25	1000	2863224

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	742789004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-SEP-25 10:38		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As, Fe) "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	PRB	09/27/25	0521	2863227	1
Iron		4.52	0.165	0.500	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HC1	09/13/25	1000	2863224

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	742789005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-SEP-25 12:00		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As, Fe) "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	PRB	09/27/25	0524	2863227	1
Iron		4.11	0.165	0.500	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HC1	09/13/25	1000	2863224

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	742789006	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	10-SEP-25 16:37		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As, Fe) "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	PRB	09/27/25	0527	2863227	1
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HC1	09/13/25	1000	2863224

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 29, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	742789007	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	10-SEP-25 16:43		
Receive Date:	12-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As, Fe) "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	PRB	09/27/25	0530	2863227	1
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	HC1	09/13/25	1000	2863224

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
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QC Summary

Report Date: September 29, 2025

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **742789**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2863227											
QC1206233242 LCS											
Arsenic	0.0500				0.0499	mg/L		99.8	(80%-120%)	PRB	09/27/25 04:51
Iron	2.00				2.07	mg/L		103	(80%-120%)		
QC1206233241 MB											
Arsenic				U	ND	mg/L					09/27/25 04:48
Iron				U	ND	mg/L					
QC1206233243 742789001 MS											
Arsenic	0.0500		0.0443		0.0968	mg/L		105	(75%-125%)		09/27/25 04:57
Iron	2.00	U	ND		1.91	mg/L		88.8	(75%-125%)		
QC1206233244 742789001 MSD											
Arsenic	0.0500		0.0443		0.0959	mg/L	0.924	103	(0%-20%)		09/27/25 05:00
Iron	2.00	U	ND		1.98	mg/L	3.34	92	(0%-20%)		
QC1206233246 742789001 SDILT											
Arsenic			44.3	U	ND	ug/L	N/A		(0%-20%)		09/27/25 05:06
Iron		U	ND	U	ND	ug/L	N/A		(0%-20%)		

Notes:

The Qualifiers in this report are defined as follows:

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

QC Summary

Workorder: **742789**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
N	Metals--The Matrix spike sample recovery is not within specified control limits
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
x	Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 742789

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 37
Analytical Batch: 2863227

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2863224

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
742789001	MCM-PT-03
742789002	MCM-DR-02
742789003	MCM-DR-03
742789004	MCM-INW-01
742789005	MCM-AP1-FD-01
742789006	MCM-AP1-FB-01
742789007	MCM-AP1-EB-01
1206233241	Method Blank (MB)**ICP-MS**
1206233242	Laboratory Control Sample (LCS)
1206233246	742789001(MCM-PT-03L) Serial Dilution (SD)
1206233243	742789001(MCM-PT-03S) Matrix Spike (MS)
1206233244	742789001(MCM-PT-03SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Per the SOP, samples were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	742789				
	001	002	003	004	005

Arsenic	5X	5X	5X	5X	5X
Iron	5X	5X	5X	5X	5X

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

742789

Page: 1 of 1
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number (1): _____
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Erin Trent**

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus Interim Performance Sampling Sept. 2025 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Natalie Piparo, William Laaker, Shannon Northen (EnSafe)
Send Results To: knjurink@southernco.com; tgodwin@ensafe.com, npiparo@ensafe.com

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	Metals (As, Fe)	NI										<-- Preservative Type (6)
MCM-PT-03	09/10/25	1212	G	N	WG			1	X											
MCM-DR-02	09/10/25	1228	G	N	WG			1	X											
MCM-DR-03	09/10/25	1545	G	N	WG			1	X											
MCM-INW-01	09/10/25	1038	G	N	WG			1	X											
MCM-AP1-FD-01	09/10/25	—	FD	N	WG			1	X											
MCM-AP1-FB-01	09/10/25	1637	FB	N	WQ			1	X											
MCM-AP1-EB-01	09/10/25	1643	EB	N	WQ			1	X											

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] EnSafe	9-12-25	1230	1 [signature]	9/12/25	1230
2			2		
3			3		

TAT Requested: **Normal:** _____ **Rush:** _____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CCR-CA-20250909**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** 23 °C

> ***For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)***

***Sample Collection Time Zone*:** [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a - **Y** - for yes the sample was field filtered or - **N** - for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM 742787

Client: GPCC | SDG/AR/COC/Work Order: 742788 742789 742786 | GEL PM:

Received By: Joel Boatwright | Date Received at GEL: 9-12-25

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
Cooler 1	24		Cooler 6	22	
Cooler 2	23		Cooler 7	3	
Cooler 3	23				
Cooler 4	2				
Cooler 5	2				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes__ No__
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): ____ CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)				If Yes, are Encores or Soil Kits present? Yes__ No__ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes__ No__ NA__ (If unknown, select No) Are liquid VOA vials free of headspace? Yes__ No__ NA__ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓		✓	Circle Applicable: No container count on COC Missing Container (provide details) Other (describe) received additional containers for MEMMAM-05
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:
~~and 06 as well~~ 9/16/25 AP

PM (or PMA) review: Initials SH Date 9/15/25

☐ Continuation Form Required when selected

List of current GEL Certifications as of 29 September 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approval	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of LA	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia 30308

Generated 9/18/2025 1:26:30 PM

JOB DESCRIPTION

Plant McManus Interm Performance Sampling Sept. 20

JOB NUMBER

680-267112-1

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
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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Definitions/Glossary

Client: Southern Company
Job ID: 680-267112-1
Project/Site: Plant McManus Interm Performance Sampling
Sept. 20

Qualifiers

General Chemistry

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: 680-267112-1
Project/Site: Plant McManus Interm Performance Sampling
Sept. 20

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
680-267112-1	MCM-MCM-05	Water	09/09/25 16:45	09/12/25 10:02	Georgia
680-267112-2	MCM-MCM-06	Water	09/09/25 14:58	09/12/25 10:02	Georgia
680-267112-3	MCM-PT-03	Water	09/10/25 12:12	09/12/25 10:02	Georgia
680-267112-4	MCM-DR-02	Water	09/10/25 12:28	09/12/25 10:02	Georgia
680-267112-5	MCM-DR-03	Water	09/10/25 15:45	09/12/25 10:02	Georgia
680-267112-6	MCM-INW-01	Water	09/10/25 10:38	09/12/25 10:02	Georgia
680-267112-7	MCM-AP1-FD-01	Water	09/10/25 00:00	09/12/25 10:02	Georgia
680-267112-8	MCM-AP1-FB-01	Water	09/10/25 16:37	09/12/25 10:02	Georgia
680-267112-9	MCM-AP1-EB-01	Water	09/10/25 16:43	09/12/25 10:02	Georgia

Job ID: 680-267112-1 Eurofins Savannah

Job Narrative
680-267112-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 9/12/2025 10:02 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 3.8°C.

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: 680-267112-1
Project/Site: Plant McManus Interm Performance Sampling
Sept. 20

Client Sample ID: MCM-MCM-05
Lab Sample ID: 680-267112-1
Date Collected: 09/09/25 16:45
Matrix: Water
Date Received: 09/12/25 10:02

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	46		1.0	1.0	mg/L			09/16/25 14:26	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-267112-2
Date Collected: 09/09/25 14:58
Matrix: Water
Date Received: 09/12/25 10:02

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	35		1.0	1.0	mg/L			09/16/25 14:26	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-267112-3
Date Collected: 09/10/25 12:12
Matrix: Water
Date Received: 09/12/25 10:02

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	20		1.0	1.0	mg/L			09/16/25 14:26	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-267112-4
Date Collected: 09/10/25 12:28
Matrix: Water
Date Received: 09/12/25 10:02

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	34		1.0	1.0	mg/L			09/16/25 14:26	1

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-267112-5
Date Collected: 09/10/25 15:45
Matrix: Water
Date Received: 09/12/25 10:02

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	10		1.0	1.0	mg/L			09/16/25 14:26	1

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-267112-6
Date Collected: 09/10/25 10:38
Matrix: Water
Date Received: 09/12/25 10:02

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	3.0		1.0	1.0	mg/L			09/16/25 14:26	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-267112-7
Date Collected: 09/10/25 00:00
Matrix: Water
Date Received: 09/12/25 10:02

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	2.9		1.0	1.0	mg/L			09/16/25 14:26	1

Client Sample Results

Client: Southern Company
Job ID: 680-267112-1
Project/Site: Plant McManus Interm Performance Sampling
Sept. 20

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-267112-8

Date Collected: 09/10/25 16:37
Matrix: Water
Date Received: 09/12/25 10:02

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<1.0		1.0	1.0	mg/L			09/16/25 14:26	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-267112-9

Date Collected: 09/10/25 16:43
Matrix: Water
Date Received: 09/12/25 10:02

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<1.0		1.0	1.0	mg/L			09/16/25 14:28	1

QC Sample Results

Client: Southern Company
Project/Site: Plant McManus Interm Performance Sampling
Sept. 20

Job ID: 680-267112-1

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-885961/1
Matrix: Water
Analysis Batch: 885961

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			09/16/25 14:26	1

Lab Sample ID: LCS 680-885961/2
Matrix: Water
Analysis Batch: 885961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	8.92		mg/L		89	75 - 125		

Lab Sample ID: LCSD 680-885961/3
Matrix: Water
Analysis Batch: 885961

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
Sulfide			10.0	8.90		mg/L		89	75 - 125	0	30

Lab Sample ID: 680-267112-2 MS
Matrix: Water
Analysis Batch: 885961

Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	35		7.81	41.1	4	mg/L		77	75 - 125		

Lab Sample ID: 680-267112-2 MSD
Matrix: Water
Analysis Batch: 885961

Client Sample ID: MCM-MCM-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	35		7.81	41.1	4	mg/L		77	75 - 125	0	30

Lab Sample ID: 680-267112-3 DU
Matrix: Water
Analysis Batch: 885961

Client Sample ID: MCM-PT-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	20			20.1		mg/L				2	30

QC Association Summary

Client: Southern Company
Job ID: 680-267112-1
Project/Site: Plant McManus Interm Performance Sampling
Sept. 20

General Chemistry

Analysis Batch: 885961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-267112-1	MCM-MCM-05	Total/NA	Water	4500 S2 F-2011	
680-267112-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-267112-3	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-267112-4	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-267112-5	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-267112-6	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-267112-7	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
680-267112-8	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-267112-9	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-885961/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-885961/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-885961/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-267112-2 MS	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-267112-2 MSD	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-267112-3 DU	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-267112-1
Project/Site: Plant McManus Interm Performance Sampling
Sept. 20

Client Sample ID: MCM-MCM-05
Lab Sample ID: 680-267112-1
Date Collected: 09/09/25 16:45
Matrix: Water
Date Received: 09/12/25 10:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	250 mL	320 mL	885961	09/16/25 14:26	BWR	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-267112-2
Date Collected: 09/09/25 14:58
Matrix: Water
Date Received: 09/12/25 10:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	250 mL	320 mL	885961	09/16/25 14:26	BWR	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-267112-3
Date Collected: 09/10/25 12:12
Matrix: Water
Date Received: 09/12/25 10:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	250 mL	320 mL	885961	09/16/25 14:26	BWR	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-267112-4
Date Collected: 09/10/25 12:28
Matrix: Water
Date Received: 09/12/25 10:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	250 mL	320 mL	885961	09/16/25 14:26	BWR	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-267112-5
Date Collected: 09/10/25 15:45
Matrix: Water
Date Received: 09/12/25 10:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	250 mL	320 mL	885961	09/16/25 14:26	BWR	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-267112-6
Date Collected: 09/10/25 10:38
Matrix: Water
Date Received: 09/12/25 10:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	250 mL	320 mL	885961	09/16/25 14:26	BWR	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-267112-1
Project/Site: Plant McManus Interm Performance Sampling
Sept. 20

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-267112-7
Date Collected: 09/10/25 00:00
Matrix: Water
Date Received: 09/12/25 10:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	250 mL	320 mL	885961	09/16/25 14:26	BWR	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-267112-8
Date Collected: 09/10/25 16:37
Matrix: Water
Date Received: 09/12/25 10:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	250 mL	320 mL	885961	09/16/25 14:26	BWR	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-267112-9
Date Collected: 09/10/25 16:43
Matrix: Water
Date Received: 09/12/25 10:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	250 mL	320 mL	885961	09/16/25 14:28	BWR	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: 680-267112-1
Project/Site: Plant McManus Interm Performance Sampling
Sept. 20

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	E87052	06-30-26

Method Summary

Client: Southern Company
Job ID: 680-267112-1
Project/Site: Plant McManus Interm Performance Sampling
Sept. 20

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

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Client Information	Sampler: Natalie Piparo, William Lasker, Shannon Northen (EnSafe)	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:	Analysis Requested		Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date 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, Y - Trizma, Z - other (specify), Other:
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO.COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Interim Performance Sampling Sept. 2025	Project #:			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total Number of containers	Task_Code: MCM-CCR-CA-20250909 Special Instructions/Note:
			Preservation Code:				CB		
MCM-MCM-05	9/9/25	1645	G	WG	N		X	2	
MCM-MCM-06	9/9/25	1458	G	WG	N		X	2	
MCM-PT-03	9/10/25	1212	G	WG	N		X	2	
MCM-DR-02	9/10/25	1228	G	WG	N		X	2	
MCM-DR-03	9/10/25	1545	G	WG	N		X	2	
MCM-INW-01	9/10/25	1038	G	WG	N		X	2	
MCM-AP1-FD-01	9/10/25	—	G	WG	N		X	2	
MCM-AP1-FB-01	9/10/25	1637	G	WQ	N		X	2	
MCM-AP1-EB-01	9/10/25	1643	G	WQ	N		X	2	

680-267112 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assess
☐ Return To Client ☐ Disposal By ---

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
(EnSafe)	9/12/25 1002			9/12/25 1002	
Relinquished by:	Date/Time:	Company	Received by:	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: 3.7/3.8

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-267112-1

Login Number: 267112

List Source: Eurofins Savannah

List Number: 1

Creator: Sims, Robert D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

March 26, 2026

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance
Work Order: 768186

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 12, 2026. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Metals containers for GEL sample IDs 768186001-768186016 are to be shared with GEL sample IDs 768188001-768188016 per client request. Alkalinity containers were mistakenly received for client sample IDs: MCM-AP1-FD-01Â and MCM-AP1-FD-02, though not requested on the chain of custody. These sample containers were disposed of and Alkalinity not analyzed per client instruction. *768186001(MCM-MCM-01), 768186002(MCM-MCM-02), 768186003(MCM-MCM-04), 768186004(MCM-MCM-05), 768186005(MCM-MCM-06), 768186006(MCM-MCM-07), 768186007(MCM-MCM-11), 768186008(MCM-MCM-12), 768186009(MCM-MCM-14), 768186010(MCM-MCM-15), 768186011(MCM-MCM-16), 768186012(MCM-MCM-17), 768186013(MCM-MCM-18), 768186014(MCM-MCM-19), 768186015(MCM-MCM-20), 768186016(MCM-DPZ-02), 768186017(MCM-AP1-FD-01), 768186018(MCM-AP1-FD-02)*. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
768186001	MCM-MCM-01	Ground Water	03/10/26 16:31	03/12/26 12:58
768186002	MCM-MCM-02	Ground Water	03/11/26 15:10	03/12/26 12:58
768186003	MCM-MCM-04	Ground Water	03/10/26 14:01	03/12/26 12:58
768186004	MCM-MCM-05	Ground Water	03/10/26 11:48	03/12/26 12:58
768186005	MCM-MCM-06	Ground Water	03/10/26 17:02	03/12/26 12:58
768186006	MCM-MCM-07	Ground Water	03/11/26 10:37	03/12/26 12:58
768186007	MCM-MCM-11	Ground Water	03/11/26 11:52	03/12/26 12:58
768186008	MCM-MCM-12	Ground Water	03/11/26 10:30	03/12/26 12:58
768186009	MCM-MCM-14	Ground Water	03/10/26 11:53	03/12/26 12:58
768186010	MCM-MCM-15	Ground Water	03/11/26 15:42	03/12/26 12:58
768186011	MCM-MCM-16	Ground Water	03/12/26 08:58	03/12/26 12:58

768186012	MCM-MCM-17	Ground Water	03/10/26 15:01	03/12/26 12:58
768186013	MCM-MCM-18	Ground Water	03/10/26 11:55	03/12/26 12:58
768186014	MCM-MCM-19	Ground Water	03/11/26 16:23	03/12/26 12:58
768186015	MCM-MCM-20	Ground Water	03/12/26 08:46	03/12/26 12:58
768186016	MCM-DPZ-02	Ground Water	03/10/26 16:53	03/12/26 12:58
768186017	MCM-AP1-FD-01	Ground Water	03/10/26 12:00	03/12/26 12:58
768186018	MCM-AP1-FD-02	Ground Water	03/11/26 12:00	03/12/26 12:58
768186019	MCM-AP1-FB-01	Ground Water	03/10/26 17:35	03/12/26 12:58
768186020	MCM-AP1-FB-02	Ground Water	03/11/26 17:50	03/12/26 12:58
768186021	MCM-AP1-EB-01	Water	03/10/26 17:25	03/12/26 12:58
768186022	MCM-AP1-EB-02	Water	03/11/26 17:45	03/12/26 12:58

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

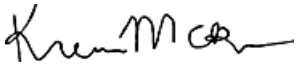
Method	Run Date ID
SW846 3005A	13-MAR-2026
SW846 7470A Prep	13-MAR-2026
SW846 7470A Prep	17-MAR-2026

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	13-MAR-2026
EPA 300.0	14-MAR-2026
EPA 300.0	15-MAR-2026
EPA 300.0	16-MAR-2026
SM 2540C	16-MAR-2026
SM 2540C	17-MAR-2026
SW846 3005A/6020B	25-MAR-2026
SW846 3005A/6020B	26-MAR-2026
SW846 7470A	16-MAR-2026
SW846 7470A	18-MAR-2026

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4705.

Sincerely,



Kierra McKnight for
Abagail Martin
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 768186 GEL Work Order: 768186

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Abagail Martin.

Reviewed by _____

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 26, 2026

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-01
Sample ID: 768186001
Matrix: WG
Collect Date: 10-MAR-26 16:31
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0665	0.0330	0.100	mg/L		1	CWW	03/13/26	1709	2961672	1
Chloride		16.6	0.134	0.400	mg/L		2	CWW	03/14/26	0936	2961672	2
Sulfate		24.1	0.266	0.800	mg/L		2					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	03/18/26	1049	2962517	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/25/26	2009	2961116	4
Arsenic	J	0.00449	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0723	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0393	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		7.90	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		70.0	2.38	10.0	mg/L			SC1	03/16/26	1656	2961318	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	03/17/26	1445	2962516
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961115

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-01	Project:	GPCC00105
Sample ID:	768186001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-02	Project:	GPCC00105
Sample ID:	768186002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-MAR-26 15:10		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L		1	CWW	03/13/26	1844	2961672	1
Chloride		13.7	0.134	0.400	mg/L		2	CWW	03/14/26	1111	2961672	2
Sulfate		23.9	0.266	0.800	mg/L		2					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	03/18/26	1055	2962517	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/25/26	2029	2961116	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0602	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0843	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.45	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		83.0	2.38	10.0	mg/L			SC1	03/16/26	1656	2961318	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	03/17/26	1445	2962516
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961115

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-02	Project:	GPCC00105
Sample ID:	768186002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: March 26, 2026

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-04
Sample ID: 768186003
Matrix: WG
Collect Date: 10-MAR-26 14:01
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0536	0.0330	0.100	mg/L		1	CWW	03/13/26	1916	2961672	1
Sulfate		17.6	0.133	0.400	mg/L		1					
Chloride		10.0	0.134	0.400	mg/L		2	CWW	03/14/26	1604	2961672	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	03/18/26	1057	2962517	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/25/26	2032	2961116	4
Arsenic	J	0.00403	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0326	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0411	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		4.03	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00240	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		54.0	2.38	10.0	mg/L			SC1	03/16/26	1656	2961318	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	03/17/26	1445	2962516
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961115

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-04	Project:	GPCC00105
Sample ID:	768186003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 26, 2026

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-05
Sample ID: 768186004
Matrix: WG
Collect Date: 10-MAR-26 11:48
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.486	0.165	0.500	mg/L		5	CWW	03/13/26	1948	2961672	1
Sulfate		644	6.65	20.0	mg/L		50	CWW	03/14/26	1636	2961672	2
Chloride		6240	67.0	200	mg/L		1000	CWW	03/14/26	1708	2961672	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	03/18/26	1059	2962517	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	03/25/26	2034	2961116	5
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium		0.0541	0.00300	0.0100	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	03/25/26	2037	2961116	6
Arsenic		0.0877	0.0100	0.0250	mg/L	1.00	5					
Barium		0.110	0.00335	0.0200	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		240	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Molybdenum	J	0.00224	0.00100	0.00500	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Boron		1.06	0.0520	0.150	mg/L	1.00	10	PRB	03/25/26	0436	2961116	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		9900	23.8	100	mg/L			SC1	03/16/26	1656	2961318	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	03/17/26	1445	2962516
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961115

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-05	Project:	GPCC00105
Sample ID:	768186004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 26, 2026

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-06
Sample ID: 768186005
Matrix: WG
Collect Date: 10-MAR-26 17:02
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.280	0.165	0.500	mg/L		5	CWW	03/13/26	2020	2961672	1
Sulfate		868	13.3	40.0	mg/L		100	CWW	03/14/26	1739	2961672	2
Chloride		6820	67.0	200	mg/L		1000	CWW	03/14/26	1811	2961672	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	03/18/26	1100	2962517	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	03/25/26	2040	2961116	5
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium		0.0560	0.00300	0.0100	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	03/25/26	2043	2961116	6
Arsenic		0.0821	0.0100	0.0250	mg/L	1.00	5					
Barium		0.370	0.00335	0.0200	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		245	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Boron		1.15	0.0520	0.150	mg/L	1.00	10	PRB	03/25/26	0440	2961116	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		12500	23.8	100	mg/L			SC1	03/16/26	1656	2961318	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961115
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	03/17/26	1445	2962516

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-06	Project:	GPCC00105
Sample ID:	768186005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 26, 2026

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-07
Sample ID: 768186006
Matrix: WG
Collect Date: 11-MAR-26 10:37
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.603	0.165	0.500	mg/L		5	CWW	03/13/26	2052	2961672	1
Sulfate		566	6.65	20.0	mg/L		50	CWW	03/14/26	1843	2961672	2
Chloride		3760	67.0	200	mg/L		1000	CWW	03/14/26	1915	2961672	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	03/18/26	1105	2962517	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Arsenic		0.00829	0.00200	0.00500	mg/L	1.00	1	PRB	03/25/26	2050	2961116	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium		0.0123	0.00300	0.0100	mg/L	1.00	1					
Selenium	J	0.00197	0.00150	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	03/26/26	1339	2961116	6
Barium		0.0863	0.00335	0.0200	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Boron		0.880	0.0520	0.150	mg/L	1.00	10	PRB	03/25/26	0443	2961116	7
Calcium		168	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8120	23.8	100	mg/L			SC1	03/16/26	1656	2961318	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	03/17/26	1445	2962516
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961115

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-07	Project:	GPCC00105
Sample ID:	768186006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-11	Project:	GPCC00105
Sample ID:	768186007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-MAR-26 11:52		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7.98	0.0670	0.200	mg/L		1	CWW	03/13/26	2259	2961672	1
Fluoride		0.131	0.0330	0.100	mg/L		1					
Sulfate		23.3	0.266	0.800	mg/L		2	CWW	03/14/26	1947	2961672	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	03/18/26	1107	2962517	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/25/26	2101	2961116	4
Arsenic		0.0104	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0292	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0334	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		4.74	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		68.0	2.38	10.0	mg/L			SC1	03/16/26	1656	2961318	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	03/17/26	1445	2962516
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961115

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-11	Project:	GPCC00105
Sample ID:	768186007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-12	Project:	GPCC00105
Sample ID:	768186008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-MAR-26 10:30		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		1.58	0.0330	0.100	mg/L		1	CWW	03/13/26	2331	2961672	1
Sulfate		1.28	0.133	0.400	mg/L		1					
Chloride		285	3.35	10.0	mg/L		50	CWW	03/14/26	2019	2961672	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	03/18/26	1109	2962517	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/25/26	2107	2961116	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0606	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00131	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		4.55	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00748	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000445	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00893	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000451	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.31	0.0520	0.150	mg/L	1.00	10	PRB	03/25/26	2114	2961116	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1150	2.38	10.0	mg/L			SC1	03/16/26	1656	2961318	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961115
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	03/17/26	1445	2962516

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-12	Project:	GPCC00105
Sample ID:	768186008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-14	Project:	GPCC00105
Sample ID:	768186009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-MAR-26 11:53		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.224	0.165	0.500	mg/L		5	CWW	03/14/26	0003	2961672	1
Sulfate		733	6.65	20.0	mg/L		50	CWW	03/14/26	2050	2961672	2
Chloride		5360	67.0	200	mg/L		1000	CWW	03/14/26	2258	2961672	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	03/18/26	1110	2962517	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	PRB	03/25/26	2117	2961116	5
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lithium		0.0349	0.00300	0.0100	mg/L	1.00	1					
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	03/25/26	2120	2961116	6
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5					
Barium		0.143	0.00335	0.0200	mg/L	1.00	5					
Boron		0.810	0.0260	0.0750	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		206	0.400	1.00	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		10700	23.8	100	mg/L			SC1	03/16/26	1656	2961318	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961115
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	03/17/26	1445	2962516

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-14	Project:	GPCC00105
Sample ID:	768186009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-15	Project:	GPCC00105
Sample ID:	768186010	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-MAR-26 15:42		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0579	0.0330	0.100	mg/L		1	CWW	03/14/26	0035	2961672	1
Sulfate		12.4	0.133	0.400	mg/L		1					
Chloride		12.2	0.134	0.400	mg/L		2	CWW	03/14/26	2330	2961672	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	03/18/26	1112	2962517	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/25/26	2128	2961116	4
Arsenic	J	0.00216	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0410	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000242	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0547	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.47	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000663	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00152	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		75.0	2.38	10.0	mg/L			SC1	03/16/26	1656	2961318	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	03/17/26	1445	2962516
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961115

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-15	Project:	GPCC00105
Sample ID:	768186010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-16	Project:	GPCC00105
Sample ID:	768186011	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-MAR-26 08:58		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.87	0.0670	0.200	mg/L		1	CWW	03/14/26	0106	2961672	1
Fluoride	J	0.0547	0.0330	0.100	mg/L		1					
Sulfate		23.5	0.266	0.800	mg/L		2	CWW	03/15/26	0001	2961672	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	03/18/26	1113	2962517	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/25/26	2134	2961116	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0847	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0488	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		4.69	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		57.0	2.38	10.0	mg/L			SC1	03/17/26	1521	2962593	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	03/17/26	1445	2962516
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961115

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-16	Project:	GPCC00105
Sample ID:	768186011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-17	Project:	GPCC00105
Sample ID:	768186012	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-MAR-26 15:01		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.858	0.165	0.500	mg/L		5	CWW	03/14/26	0242	2961672	1
Sulfate		226	3.33	10.0	mg/L		25	CWW	03/15/26	0137	2961672	2
Chloride		2450	33.5	100	mg/L		500	CWW	03/15/26	0209	2961672	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	03/18/26	1115	2962517	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/26/26	1331	2961116	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0588	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		46.2	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00501	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0188	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000374	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00194	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		1.72	0.0520	0.150	mg/L	1.00	10	PRB	03/25/26	2143	2961116	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		4830	23.8	100	mg/L			SC1	03/16/26	1656	2961318	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	03/17/26	1445	2962516
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961115

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-17	Project:	GPCC00105
Sample ID:	768186012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-18	Project:	GPCC00105
Sample ID:	768186013	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-MAR-26 11:55		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.433	0.0660	0.200	mg/L		2	CWW	03/14/26	0314	2961672	1
Sulfate		209	2.66	8.00	mg/L		20	CWW	03/15/26	0241	2961672	2
Chloride		1230	13.4	40.0	mg/L		200	CWW	03/15/26	0313	2961672	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	03/18/26	1117	2962517	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/26/26	1404	2961118	5
Arsenic	J	0.00296	0.00200	0.00500	mg/L	1.00	1					
Barium		0.123	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00224	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		21.7	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.00810	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.227	0.0260	0.0750	mg/L	1.00	5	PRB	03/26/26	1505	2961118	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2260	23.8	100	mg/L			SC1	03/16/26	1656	2961318	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	03/17/26	1445	2962516
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961117

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-18	Project:	GPCC00105
Sample ID:	768186013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-19	Project:	GPCC00105
Sample ID:	768186014	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-MAR-26 16:23		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.381	0.165	0.500	mg/L		5	CWW	03/14/26	0346	2961672	1
Sulfate		163	2.66	8.00	mg/L		20	CWW	03/15/26	0344	2961672	2
Chloride		1390	33.5	100	mg/L		500	CWW	03/15/26	0520	2961672	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	03/18/26	1118	2962517	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/26/26	1421	2961118	5
Arsenic	J	0.00459	0.00200	0.00500	mg/L	1.00	1					
Barium		0.133	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00606	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		39.5	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0107	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.0115	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.272	0.0260	0.0750	mg/L	1.00	5	PRB	03/26/26	1517	2961118	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2710	23.8	100	mg/L			SC1	03/16/26	1656	2961318	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961117
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	03/17/26	1445	2962516

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-19	Project:	GPCC00105
Sample ID:	768186014	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 26, 2026

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-MCM-20
Sample ID: 768186015
Matrix: WG
Collect Date: 12-MAR-26 08:46
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.421	0.165	0.500	mg/L		5	CWW	03/14/26	0553	2961672	1
Sulfate		977	6.65	20.0	mg/L		50	CWW	03/16/26	1744	2961672	2
Chloride		4640	67.0	200	mg/L		1000	CWW	03/16/26	1815	2961672	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	03/18/26	1120	2962517	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	03/26/26	1423	2961118	5
Arsenic	J	0.0236	0.0100	0.0250	mg/L	1.00	5					
Barium		0.0956	0.00335	0.0200	mg/L	1.00	5					
Beryllium		0.0138	0.00100	0.00250	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		93.2	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Cobalt		0.0233	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Lithium	J	0.0188	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Selenium		0.0461	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Boron		0.855	0.0520	0.150	mg/L	1.00	10	PRB	03/26/26	1519	2961118	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8860	23.8	100	mg/L			SC1	03/16/26	1656	2961318	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961117
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	03/17/26	1445	2962516

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-MCM-20	Project:	GPCC00105
Sample ID:	768186015	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DPZ-02	Project:	GPCC00105
Sample ID:	768186016	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-MAR-26 16:53		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		3.19	0.165	0.500	mg/L		5	CWW	03/14/26	0625	2961672	1
Sulfate		501	6.65	20.0	mg/L		50	CWW	03/16/26	1847	2961672	2
Chloride		4370	67.0	200	mg/L		1000	CWW	03/16/26	1919	2961672	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	03/18/26	1125	2962517	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00500	0.0150	mg/L	1.00	5	PRB	03/26/26	1425	2961118	5
Arsenic		0.0611	0.0100	0.0250	mg/L	1.00	5					
Barium		0.0535	0.00335	0.0200	mg/L	1.00	5					
Beryllium	U	ND	0.00100	0.00250	mg/L	1.00	5					
Cadmium	U	ND	0.00150	0.00500	mg/L	1.00	5					
Calcium		182	0.400	1.00	mg/L	1.00	5					
Chromium	U	ND	0.0150	0.0500	mg/L	1.00	5					
Cobalt	U	ND	0.00150	0.00500	mg/L	1.00	5					
Lead	U	ND	0.00250	0.0100	mg/L	1.00	5					
Lithium		0.0696	0.0150	0.0500	mg/L	1.00	5					
Molybdenum	U	ND	0.00100	0.00500	mg/L	1.00	5					
Selenium	U	ND	0.00750	0.0250	mg/L	1.00	5					
Thallium	U	ND	0.00300	0.0100	mg/L	1.00	5					
Boron		1.25	0.0520	0.150	mg/L	1.00	10	PRB	03/26/26	1529	2961118	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		8500	23.8	100	mg/L			SC1	03/16/26	1656	2961318	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	03/17/26	1445	2962516
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961117

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DPZ-02	Project:	GPCC00105
Sample ID:	768186016	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 26, 2026

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-AP1-FD-01
Sample ID: 768186017
Matrix: WG
Collect Date: 10-MAR-26 12:00
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		0.545	0.165	0.500	mg/L		5	CWW	03/14/26	0657	2961672	1
Sulfate		210	2.66	8.00	mg/L		20	CWW	03/15/26	0759	2961672	2
Chloride		1240	16.8	50.0	mg/L		250	CWW	03/15/26	0831	2961672	3
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	03/18/26	1126	2962517	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/26/26	1428	2961118	5
Arsenic	J	0.00283	0.00200	0.00500	mg/L	1.00	1					
Barium		0.126	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00214	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		22.0	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium		0.00783	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.230	0.0260	0.0750	mg/L	1.00	5	PRB	03/26/26	1522	2961118	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2310	23.8	100	mg/L			SC1	03/16/26	1656	2961318	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	03/17/26	1445	2962516
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961117

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	768186017	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	EPA 300.0	
4	SW846 7470A	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-02	Project:	GPCC00105
Sample ID:	768186018	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-MAR-26 12:00		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.0330	0.100	mg/L		1	CWW	03/14/26	0800	2961672	1
Chloride		13.7	0.134	0.400	mg/L		2	CWW	03/15/26	0903	2961672	2
Sulfate		24.7	0.266	0.800	mg/L		2					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	03/18/26	1128	2962517	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/26/26	1430	2961118	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0600	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.19	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.0781	0.0208	0.0600	mg/L	1.00	4	PRB	03/26/26	1535	2961118	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		67.0	2.38	10.0	mg/L			SC1	03/16/26	1656	2961318	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	03/17/26	1445	2962516
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961117

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-02	Project:	GPCC00105
Sample ID:	768186018	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 7470A	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	768186019	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	10-MAR-26 17:35		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	03/14/26	0832	2961672	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	03/18/26	1130	2962517	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/26/26	1432	2961118	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	03/26/26	1534	2961118	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			SC1	03/17/26	1449	2962592	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961117
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	03/17/26	1445	2962516

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	768186019	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-02	Project:	GPCC00105
Sample ID:	768186020	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	11-MAR-26 17:50		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	03/14/26	0904	2961672	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JM13	03/18/26	1131	2962517	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/26/26	1435	2961118	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	03/26/26	1536	2961118	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			SC1	03/17/26	1449	2962592	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	HC1	03/17/26	1445	2962516
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961117

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-02	Project:	GPCC00105
Sample ID:	768186020	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	768186021	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	10-MAR-26 17:25		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	TXT1	03/14/26	0112	2961730	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	PB1	03/16/26	1356	2961233	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/26/26	1437	2961118	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	J	0.00339	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	03/26/26	1538	2961118	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			SC1	03/17/26	1449	2962592	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961117
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	03/13/26	0910	2961228

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	768186021	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 26, 2026

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308
Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater Compliance

Client Sample ID: MCM-AP1-EB-02
Sample ID: 768186022
Matrix: WQ
Collect Date: 11-MAR-26 17:45
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	TXT1	03/14/26	0144	2961730	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000690	0.0000670	0.000200	mg/L	1.00	1	PB1	03/16/26	1358	2961233	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Appx III "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	03/26/26	1439	2961118	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	PRB	03/26/26	1539	2961118	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			SC1	03/17/26	1521	2962593	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961117
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	03/13/26	0910	2961228

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-02	Project:	GPCC00105
Sample ID:	768186022	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 7470A	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: March 26, 2026

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **768186**

Parmname		NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date	Time
Ion Chromatography														
Batch 2961672														
QC1206407796 768186001 DUP														
Chloride				16.6		16.6	mg/L	0.347			(0%-20%)	CWW	03/14/26	10:08
Fluoride			J	0.0665	J	0.0612	mg/L	8.3	^		(+/-0.100)		03/13/26	17:41
Sulfate				24.1		23.9	mg/L	0.663			(0%-20%)		03/14/26	10:08
QC1206407798 768186011 DUP														
Chloride				5.87		5.85	mg/L	0.468			(0%-20%)		03/14/26	01:38
Fluoride			J	0.0547	J	0.0548	mg/L	0.183	^		(+/-0.100)			
Sulfate				23.5		23.7	mg/L	0.497			(0%-20%)		03/15/26	00:33
QC1206407795 LCS														
Chloride		5.00				4.78	mg/L			95.6	(90%-110%)		03/13/26	16:37
Fluoride		2.50				2.42	mg/L			96.6	(90%-110%)			
Sulfate		10.0				9.70	mg/L			97	(90%-110%)			
QC1206407794 MB														
Chloride					U	ND	mg/L						03/13/26	16:05
Fluoride					U	ND	mg/L							
Sulfate					U	ND	mg/L							

QC Summary

Workorder: **768186**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2961672												
QC1206407797 768186001 MS												
Chloride	10.0		16.6		27.7	mg/L			111*	(90%-110%)	CWW	03/14/26 10:40
Fluoride	2.50	J	0.0665		2.69	mg/L			105	(90%-110%)		03/13/26 18:12
Sulfate	20.0		24.1		44.1	mg/L			100	(90%-110%)		03/14/26 10:40
QC1206407799 768186011 MS												
Chloride	5.00		5.87		11.1	mg/L			105	(90%-110%)		03/14/26 02:10
Fluoride	2.50	J	0.0547		2.68	mg/L			105	(90%-110%)		
Sulfate	20.0		23.5		42.9	mg/L			97	(90%-110%)		03/15/26 01:05
Batch 2961730												
QC1206407862 768223002 DUP												
Chloride			35.9		36.0	mg/L	0.242			(0%-20%)	TXT1	03/14/26 17:36
Fluoride			0.171		0.172	mg/L	0.642	^		(+/-0.100)		03/14/26 02:48
Sulfate			7.81		7.81	mg/L	0.0269			(0%-20%)		
QC1206407857 LCS												
Chloride	5.00				4.57	mg/L			91.4	(90%-110%)		03/13/26 18:18
Fluoride	2.50				2.34	mg/L			93.7	(90%-110%)		
Sulfate	10.0				9.37	mg/L			93.7	(90%-110%)		
QC1206407856 MB												
Chloride				U	ND	mg/L						03/13/26 17:46

QC Summary

Workorder: **768186**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography										
Batch 2961730										
Fluoride			U	ND	mg/L				TXT1	03/13/26 17:46
Sulfate			U	ND	mg/L					
QC1206407863 768223002 MS										
Chloride	50.0	35.9		85.1	mg/L		98.4	(90%-110%)		03/14/26 18:08
Fluoride	2.50	0.171		2.44	mg/L		90.8	(90%-110%)		03/14/26 03:19
Sulfate	10.0	7.81		17.7	mg/L		98.7	(90%-110%)		
Metals Analysis - ICPMS										
Batch 2961116										
QC1206406688 LCS										
Antimony	0.0500			0.0488	mg/L		97.6	(80%-120%)	PRB	03/25/26 20:06
Arsenic	0.0500			0.0487	mg/L		97.4	(80%-120%)		
Barium	0.0500			0.0508	mg/L		102	(80%-120%)		
Beryllium	0.0500			0.0543	mg/L		109	(80%-120%)		
Boron	0.100			0.103	mg/L		103	(80%-120%)		
Cadmium	0.0500			0.0508	mg/L		102	(80%-120%)		
Calcium	2.00			2.21	mg/L		111	(80%-120%)		
Chromium	0.0500			0.0508	mg/L		102	(80%-120%)		

QC Summary

Workorder: **768186**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2961116										
Cobalt	0.0500			0.0503	mg/L		101	(80%-120%)	PRB	03/25/26 20:06
Lead	0.0500			0.0515	mg/L		103	(80%-120%)		
Lithium	0.0500			0.0507	mg/L		101	(80%-120%)		
Molybdenum	0.0500			0.0514	mg/L		103	(80%-120%)		
Selenium	0.0500			0.0489	mg/L		97.8	(80%-120%)		
Thallium	0.0500			0.0496	mg/L		99.2	(80%-120%)		
QC1206406687 MB										
Antimony			U	ND	mg/L					03/25/26 20:03
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					

QC Summary

Workorder: **768186**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2961116											
Cobalt				U	ND	mg/L				PRB	03/25/26 20:03
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Molybdenum				U	ND	mg/L					
Selenium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1206406689 768186001 MS											
Antimony	0.0500	U	ND		0.0470	mg/L		93.8	(75%-125%)		03/25/26 20:12
Arsenic	0.0500	J	0.00449		0.0525	mg/L		96	(75%-125%)		
Barium	0.0500		0.0723		0.122	mg/L		99.2	(75%-125%)		
Beryllium	0.0500	U	ND		0.0521	mg/L		104	(75%-125%)		
Boron	0.100		0.0393		0.130	mg/L		91.2	(75%-125%)		
Cadmium	0.0500	U	ND		0.0506	mg/L		101	(75%-125%)		
Calcium	2.00		7.90		9.96	mg/L		103	(75%-125%)		
Chromium	0.0500	U	ND		0.0495	mg/L		98.3	(75%-125%)		

QC Summary

Workorder: **768186**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2961116											
Cobalt	0.0500	U	ND		0.0496	mg/L		99.2	(75%-125%)	PRB	03/25/26 20:12
Lead	0.0500	U	ND		0.0506	mg/L		101	(75%-125%)		
Lithium	0.0500	U	ND		0.0515	mg/L		102	(75%-125%)		
Molybdenum	0.0500	U	ND		0.0530	mg/L		106	(75%-125%)		
Selenium	0.0500	U	ND		0.0449	mg/L		89.4	(75%-125%)		
Thallium	0.0500	U	ND		0.0481	mg/L		96.2	(75%-125%)		
QC1206406690 768186001 MSD											
Antimony	0.0500	U	ND		0.0476	mg/L	1.19	94.9	(0%-20%)		03/25/26 20:15
Arsenic	0.0500	J	0.00449		0.0530	mg/L	0.976	97	(0%-20%)		
Barium	0.0500		0.0723		0.122	mg/L	0.251	99.8	(0%-20%)		
Beryllium	0.0500	U	ND		0.0526	mg/L	0.798	105	(0%-20%)		
Boron	0.100		0.0393		0.136	mg/L	3.9	96.4	(0%-20%)		
Cadmium	0.0500	U	ND		0.0506	mg/L	0.00198	101	(0%-20%)		
Calcium	2.00		7.90		10.0	mg/L	0.852	107	(0%-20%)		
Chromium	0.0500	U	ND		0.0502	mg/L	1.51	99.8	(0%-20%)		

QC Summary

Workorder: **768186**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2961116												
Cobalt	0.0500	U	ND		0.0502	mg/L	1.28	100	(0%-20%)	PRB	03/25/26	20:15
Lead	0.0500	U	ND		0.0509	mg/L	0.538	102	(0%-20%)			
Lithium	0.0500	U	ND		0.0518	mg/L	0.697	102	(0%-20%)			
Molybdenum	0.0500	U	ND		0.0521	mg/L	1.64	104	(0%-20%)			
Selenium	0.0500	U	ND		0.0476	mg/L	5.97	94.9	(0%-20%)			
Thallium	0.0500	U	ND		0.0494	mg/L	2.67	98.8	(0%-20%)			
QC1206406692 768186001 SDILT												
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		03/25/26	20:20
Arsenic		J	4.49	U	ND	ug/L	N/A		(0%-20%)			
Barium			72.3		14.7	ug/L	1.77		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Boron			39.3	J	9.51	ug/L	21		(0%-20%)			
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Calcium			7900		1620	ug/L	2.82		(0%-20%)			
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)			

QC Summary

Workorder: **768186**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2961116										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	03/25/26 20:20
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Batch 2961118										
QC1206406694 LCS										
Antimony	0.0500			0.0508	mg/L		102	(80%-120%)	PRB	03/26/26 14:02
Arsenic	0.0500			0.0521	mg/L		104	(80%-120%)		
Barium	0.0500			0.0529	mg/L		106	(80%-120%)		
Beryllium	0.0500			0.0566	mg/L		113	(80%-120%)		
Boron	0.100			0.0990	mg/L		99	(80%-120%)		03/26/26 15:14
Cadmium	0.0500			0.0517	mg/L		103	(80%-120%)		03/26/26 14:02
Calcium	2.00			2.34	mg/L		117	(80%-120%)		
Chromium	0.0500			0.0524	mg/L		105	(80%-120%)		

QC Summary

Workorder: **768186**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2961118										
Cobalt	0.0500			0.0518	mg/L		104	(80%-120%)	PRB	03/26/26 14:02
Lead	0.0500			0.0517	mg/L		103	(80%-120%)		
Lithium	0.0500			0.0541	mg/L		108	(80%-120%)		
Molybdenum	0.0500			0.0512	mg/L		102	(80%-120%)		
Selenium	0.0500			0.0531	mg/L		106	(80%-120%)		
Thallium	0.0500			0.0500	mg/L		100	(80%-120%)		
QC1206406693 MB										
Antimony			U	ND	mg/L					03/26/26 14:00
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					03/26/26 15:13
Cadmium			U	ND	mg/L					03/26/26 14:00
Calcium			U	ND	mg/L					
Chromium			U	ND	mg/L					

QC Summary

Workorder: **768186**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2961118											
Cobalt				U	ND	mg/L				PRB	03/26/26 14:00
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Molybdenum				U	ND	mg/L					
Selenium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1206406695 768186013 MS											
Antimony	0.0500	U	ND		0.0486	mg/L		97.1	(75%-125%)		03/26/26 14:07
Arsenic	0.0500	J	0.00296		0.0545	mg/L		103	(75%-125%)		
Barium	0.0500		0.123		0.175	mg/L		104	(75%-125%)		
Beryllium	0.0500		0.00224		0.0517	mg/L		99	(75%-125%)		
Boron	0.100		0.227		0.315	mg/L		88.4	(75%-125%)		03/26/26 15:06
Cadmium	0.0500	U	ND		0.0459	mg/L		91.8	(75%-125%)		03/26/26 14:07
Calcium	2.00		21.7		23.9	mg/L		N/A	(75%-125%)		
Chromium	0.0500	U	ND		0.0497	mg/L		93.9	(75%-125%)		

QC Summary

Workorder: **768186**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2961118											
Cobalt	0.0500	U	ND		0.0444	mg/L		88.9	(75%-125%)	PRB	03/26/26 14:07
Lead	0.0500	U	ND		0.0446	mg/L		89.1	(75%-125%)		
Lithium	0.0500	U	ND		0.0538	mg/L		102	(75%-125%)		
Molybdenum	0.0500	U	ND		0.0553	mg/L		110	(75%-125%)		
Selenium	0.0500		0.00810		0.0571	mg/L		97.9	(75%-125%)		
Thallium	0.0500	U	ND		0.0434	mg/L		86.8	(75%-125%)		
QC1206406696 768186013 MSD											
Antimony	0.0500	U	ND		0.0470	mg/L	3.27	93.9	(0%-20%)		03/26/26 14:09
Arsenic	0.0500	J	0.00296		0.0533	mg/L	2.26	101	(0%-20%)		
Barium	0.0500		0.123		0.166	mg/L	5.02	86.9	(0%-20%)		
Beryllium	0.0500		0.00224		0.0491	mg/L	5.24	93.7	(0%-20%)		
Boron	0.100		0.227		0.319	mg/L	1.19	92.1	(0%-20%)		03/26/26 15:08
Cadmium	0.0500	U	ND		0.0449	mg/L	2.24	89.8	(0%-20%)		03/26/26 14:09
Calcium	2.00		21.7		22.6	mg/L	5.54	N/A	(0%-20%)		
Chromium	0.0500	U	ND		0.0480	mg/L	3.36	90.7	(0%-20%)		

QC Summary

Workorder: **768186**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2961118											
Cobalt	0.0500	U	ND		0.0436	mg/L	1.86	87.2	(0%-20%)	PRB	03/26/26 14:09
Lead	0.0500	U	ND		0.0430	mg/L	3.64	85.9	(0%-20%)		
Lithium	0.0500	U	ND		0.0514	mg/L	4.44	97.5	(0%-20%)		
Molybdenum	0.0500	U	ND		0.0530	mg/L	4.11	106	(0%-20%)		
Selenium	0.0500		0.00810		0.0558	mg/L	2.19	95.4	(0%-20%)		
Thallium	0.0500	U	ND		0.0420	mg/L	3.27	84	(0%-20%)		
QC1206406698 768186013 SDILT											
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		03/26/26 14:13
Arsenic		J	2.96	U	ND	ug/L	N/A		(0%-20%)		
Barium			123		26.4	ug/L	7.68		(0%-20%)		
Beryllium			2.24	J	0.463	ug/L	3.21		(0%-20%)		
Boron			227	J	229	ug/L	1.13		(0%-20%)		03/26/26 15:11
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		03/26/26 14:13
Calcium			21700		4570	ug/L	5.1		(0%-20%)		
Chromium		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **768186**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2961118										
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	03/26/26 14:13
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Selenium		8.10	J	2.12	ug/L	30.7		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2961233										
QC1206406973 766701001 DUP										
Mercury	J	0.0000770	J	0.0000700	mg/L	9.52	^	(+/-0.000200)	PB1	03/16/26 13:41
QC1206406972 LCS										
Mercury 0.00200				0.00203	mg/L		101	(80%-120%)		03/16/26 13:38
QC1206406971 MB										
Mercury			J	0.0000690	mg/L					03/16/26 13:36
QC1206406974 766701001 MS										
Mercury 0.00200	J	0.0000770		0.00198	mg/L		95.2	(75%-125%)		03/16/26 13:46
Batch 2962517										
QC1206409257 768186001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JM13	03/18/26 10:50

QC Summary

Workorder: **768186**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury											
Batch 2962517											
QC1206409256 LCS											
Mercury	0.00200				0.00201	mg/L		100	(80%-120%)	JM13	03/18/26 10:47
QC1206409255 MB											
Mercury				U	ND	mg/L					03/18/26 10:45
QC1206409258 768186001 MS											
Mercury	0.00200	U	ND		0.00195	mg/L		97	(75%-125%)		03/18/26 10:52
Solids Analysis											
Batch 2961318											
QC1206407136 768186008 DUP											
Total Dissolved Solids			1150		1150	mg/L	0.436		(0%-5%)	SC1	03/16/26 16:56
QC1206407134 LCS											
Total Dissolved Solids	300				297	mg/L		99	(95%-105%)		03/16/26 16:56
QC1206407133 MB											
Total Dissolved Solids				U	ND	mg/L					03/16/26 16:56
Batch 2962592											
QC1206409462 768056001 DUP											
Total Dissolved Solids			918		889	mg/L	3.21		(0%-5%)	SC1	03/17/26 14:49
QC1206409457 LCS											
Total Dissolved Solids	300				302	mg/L		101	(95%-105%)		03/17/26 14:49
QC1206409456 MB											
Total Dissolved Solids				U	ND	mg/L					03/17/26 14:49
Batch 2962593											
QC1206409474 768098001 DUP											
Total Dissolved Solids			7920		7790	mg/L	1.72		(0%-5%)	SC1	03/17/26 15:21

QC Summary

Workorder: **768186**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Solids Analysis											
Batch 2962593											
QC1206409473 LCS											
Total Dissolved Solids	300			296	mg/L		98.7	(95%-105%)	SC1	03/17/26	15:21
QC1206409472 MB											
Total Dissolved Solids			U	ND	mg/L					03/17/26	15:21

Notes:

The Qualifiers in this report are defined as follows:

U U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J J Value is estimated

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
Georgia Power Company
SDG #: 768186

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 37
Analytical Batch: 2961116

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2961115

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
768186001	MCM-MCM-01
768186002	MCM-MCM-02
768186003	MCM-MCM-04
768186004	MCM-MCM-05
768186005	MCM-MCM-06
768186006	MCM-MCM-07
768186007	MCM-MCM-11
768186008	MCM-MCM-12
768186009	MCM-MCM-14
768186010	MCM-MCM-15
768186011	MCM-MCM-16
768186012	MCM-MCM-17
1206406687	Method Blank (MB)**ICP-MS Batch 2961116**
1206406688	Laboratory Control Sample (LCS)
1206406692	768186001(MCM-MCM-01L) Serial Dilution (SD)
1206406689	768186001(MCM-MCM-01S) Matrix Spike (MS)
1206406690	768186001(MCM-MCM-01SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

CRDL/PQL Requirements
The CRDL standard recoveries for SW846 6020B met the advisory control limits with the exception of calcium. Client sample concentrations were greater than two times the CRDL; therefore the data were not adversely affected.

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 768186004 (MCM-MCM-05), 768186005 (MCM-MCM-06), 768186006 (MCM-MCM-07), 768186008 (MCM-MCM-12) and 768186012 (MCM-MCM-17) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. Per the SOP, samples 768186004 (MCM-MCM-05), 768186005 (MCM-MCM-06), 768186007 (MCM-MCM-11) and 768186009 (MCM-MCM-14) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	768186					
	004	**005**	**006**	**008**	**009**	**012**
Antimony	5X	5X	5X		5X	
Arsenic	5X	5X			5X	
Barium	5X	5X	5X		5X	
Boron	10X	10X	10X	10X	5X	10X
Cadmium	5X	5X	5X		5X	
Calcium	5X	5X	10X		5X	
Lead	5X	5X	5X		5X	
Molybdenum	5X	5X	5X		5X	
Selenium	5X	5X			5X	
Thallium	5X	5X	5X		5X	

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 37
Analytical Batch: 2961118

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2961117

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
768186013	MCM-MCM-18
768186014	MCM-MCM-19
768186015	MCM-MCM-20
768186016	MCM-DPZ-02
768186017	MCM-AP1-FD-01
768186018	MCM-AP1-FD-02
768186019	MCM-AP1-FB-01
768186020	MCM-AP1-FB-02
768186021	MCM-AP1-EB-01
768186022	MCM-AP1-EB-02
1206406693	Method Blank (MB)**ICP-MS Batch 2961118**
1206406694	Laboratory Control Sample (LCS)
1206406698	768186013(MCM-MCM-18L) Serial Dilution (SD)
1206406695	768186013(MCM-MCM-18S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

CRDL/PQL Requirements
The CRDL standard recoveries for SW846 6020B met the advisory control limits with the exception of calcium. Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected.

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 768186013 (MCM-MCM-18), 768186014 (MCM-MCM-19), 768186015 (MCM-MCM-20), 768186016 (MCM-DPZ-02) and 768186017 (MCM-AP1-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument. The ICPMS solid samples in this SDG were diluted the standard two times. 768186015 (MCM-MCM-20), 768186016 (MCM-DPZ-02) and 768186018 (MCM-AP1-FD-02).

Analyte	768186					
	013	**014**	**015**	**016**	**017**	**018**
Antimony			5X	5X		
Arsenic			5X	5X		
Barium			5X	5X		
Beryllium			5X	5X		
Boron	5X	5X	10X	10X	5X	4X
Cadmium			5X	5X		
Calcium			5X	5X		
Chromium			5X	5X		
Cobalt			5X	5X		
Lead			5X	5X		
Lithium			5X	5X		
Molybdenum			5X	5X		
Selenium			5X	5X		
Thallium			5X	5X		

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**

Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 42
Analytical Batch: 2961233

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 42
Preparation Batch: 2961228

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
768186021	MCM-AP1-EB-01
768186022	MCM-AP1-EB-02
1206406971	Method Blank (MB)**CVAA Batch 2961233**
1206406972	Laboratory Control Sample (LCS)
1206406973	766701001(NonSDGD) Sample Duplicate (DUP)
1206406974	766701001(NonSDGS) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 42
Analytical Batch: 2962517

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 42
Preparation Batch: 2962516

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
768186001	MCM-MCM-01
768186002	MCM-MCM-02
768186003	MCM-MCM-04
768186004	MCM-MCM-05
768186005	MCM-MCM-06
768186006	MCM-MCM-07
768186007	MCM-MCM-11
768186008	MCM-MCM-12
768186009	MCM-MCM-14
768186010	MCM-MCM-15
768186011	MCM-MCM-16
768186012	MCM-MCM-17
768186013	MCM-MCM-18
768186014	MCM-MCM-19
768186015	MCM-MCM-20
768186016	MCM-DPZ-02

768186017	MCM-AP1-FD-01
768186018	MCM-AP1-FD-02
768186019	MCM-AP1-FB-01
768186020	MCM-AP1-FB-02
1206409255	Method Blank (MB)**CVAA Batch 2962517**
1206409256	Laboratory Control Sample (LCS)
1206409257	768186001(MCM-MCM-01D) Sample Duplicate (DUP)
1206409258	768186001(MCM-MCM-01S) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 37
Analytical Batch: 2961672

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
768186001	MCM-MCM-01
768186002	MCM-MCM-02
768186003	MCM-MCM-04
768186004	MCM-MCM-05
768186005	MCM-MCM-06
768186006	MCM-MCM-07
768186007	MCM-MCM-11
768186008	MCM-MCM-12
768186009	MCM-MCM-14
768186010	MCM-MCM-15
768186011	MCM-MCM-16
768186012	MCM-MCM-17
768186013	MCM-MCM-18
768186014	MCM-MCM-19
768186015	MCM-MCM-20
768186016	MCM-DPZ-02
768186017	MCM-AP1-FD-01
768186018	MCM-AP1-FD-02
768186019	MCM-AP1-FB-01
768186020	MCM-AP1-FB-02
1206407794	Method Blank (MB) **Batch 2961672**
1206407795	Laboratory Control Sample (LCS)
1206407796	768186001(MCM-MCM-01) Sample Duplicate (DUP)
1206407797	768186001(MCM-MCM-01) Matrix Spike (MS)
1206407798	768186011(MCM-MCM-16) Sample Duplicate (DUP)
1206407799	768186011(MCM-MCM-16) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement
The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1206407797 (MCM-MCM-01MS)	111* (90%-110%)

Technical Information

Sample Dilutions
The following samples 1206407796 (MCM-MCM-01DUP), 1206407797 (MCM-MCM-01MS), 1206407798 (MCM-MCM-16DUP), 1206407799 (MCM-MCM-16MS), 768186001 (MCM-MCM-01), 768186002 (MCM-MCM-02), 768186003 (MCM-MCM-04), 768186004 (MCM-MCM-05), 768186005 (MCM-MCM-06), 768186006 (MCM-MCM-07), 768186007 (MCM-MCM-11), 768186008 (MCM-MCM-12), 768186009 (MCM-MCM-14), 768186010 (MCM-MCM-15), 768186011 (MCM-MCM-16), 768186012 (MCM-MCM-17), 768186013 (MCM-MCM-18), 768186014 (MCM-MCM-19), 768186015 (MCM-MCM-20), 768186016 (MCM-DPZ-02), 768186017 (MCM-AP1-FD-01) and 768186018 (MCM-AP1-FD-02) were diluted because target analyte concentrations exceeded the calibration range.
Samples 768186004 (MCM-MCM-05), 768186005 (MCM-MCM-06), 768186006 (MCM-MCM-07), 768186009 (MCM-MCM-14), 768186012 (MCM-MCM-17), 768186013 (MCM-MCM-18), 768186014 (MCM-MCM-19), 768186015 (MCM-MCM-20), 768186016 (MCM-DPZ-02) and 768186017 (MCM-AP1-FD-01) were diluted to minimize matrix effects on instrument performance. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	768186									
	001	**002**	**003**	**004**	**005**	**006**	**007**	**008**	**009**	**010**
Chloride	2X	2X	2X	1000X	1000X	1000X	1X	50X	1000X	2X
Fluoride	1X	1X	1X	5X	5X	5X	1X	1X	5X	1X
Sulfate	2X	2X	1X	50X	100X	50X	2X	1X	50X	1X

Analyte	768186							
	011	**012**	**013**	**014**	**015**	**016**	**017**	**018**
Chloride	1X	500X	200X	500X	1000X	1000X	250X	2X
Fluoride	1X	5X	2X	5X	5X	5X	5X	1X
Sulfate	2X	25X	20X	20X	50X	50X	20X	2X

Sample Re-analysis
Samples 768186015 (MCM-MCM-20) and 768186016 (MCM-DPZ-02) were re-analyzed to verify the results.

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 37
Analytical Batch: 2961730

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
768186021	MCM-AP1-EB-01
768186022	MCM-AP1-EB-02
1206407856	Method Blank (MB) **Batch 2961730**
1206407857	Laboratory Control Sample (LCS)
1206407862	768223002(NonSDG) Sample Duplicate (DUP)
1206407863	768223002(NonSDG) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1206407862 (Non SDG 768223002DUP) and 1206407863 (Non SDG 768223002MS) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Miscellaneous Information

Manual Integrations
Samples 1206407856 (MB), 1206407862 (Non SDG 768223002DUP) and 1206407863 (Non SDG 768223002MS) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 23
Analytical Batch: 2961318

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
768186001	MCM-MCM-01
768186002	MCM-MCM-02
768186003	MCM-MCM-04
768186004	MCM-MCM-05
768186005	MCM-MCM-06
768186006	MCM-MCM-07
768186007	MCM-MCM-11
768186008	MCM-MCM-12
768186009	MCM-MCM-14

768186010	MCM-MCM-15
768186012	MCM-MCM-17
768186013	MCM-MCM-18
768186014	MCM-MCM-19
768186015	MCM-MCM-20
768186016	MCM-DPZ-02
768186017	MCM-AP1-FD-01
768186018	MCM-AP1-FD-02
1206407133	Method Blank (MB) **Batch 2961318**
1206407134	Laboratory Control Sample (LCS)
1206407136	768186008(MCM-MCM-12) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Consecutive Weight Checks
In order to meet consecutive weight check criteria, weight events must be within 0.0005g of each other. After initial weight checks failed this criteria, the analyst performed two additional weight events. After four weight events, the analyst was unable to get the samples to conform to the criteria. The failure to meet weigh back criteria is attributed to the matrix of the samples. All relevant processes and procedures are in full adherence to the established QSM requirements. 768186003 (MCM-MCM-04).

Miscellaneous Information

Additional Comments
A TDS meter was used to check the samples for approximate concentration prior to analysis. 768186004 (MCM-MCM-05), 768186005 (MCM-MCM-06), 768186006 (MCM-MCM-07), 768186009 (MCM-MCM-14), 768186012 (MCM-MCM-17), 768186013 (MCM-MCM-18), 768186014 (MCM-MCM-19), 768186015 (MCM-MCM-20), 768186016 (MCM-DPZ-02) and 768186017 (MCM-AP1-FD-01).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 23
Analytical Batch: 2962592

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
768186019	MCM-AP1-FB-01
768186020	MCM-AP1-FB-02
768186021	MCM-AP1-EB-01
1206409456	Method Blank (MB) **Batch 2962592**
1206409457	Laboratory Control Sample (LCS)
1206409462	768056001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 23
Analytical Batch: 2962593

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
768186011	MCM-MCM-16
768186022	MCM-AP1-EB-02
1206409472	Method Blank (MB) **Batch 2962593**
1206409473	Laboratory Control Sample (LCS)
1206409474	768098001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

PO Number:
Project #: GPCC00105
GEL Quote #: GELP22-0819
GEL Project Manager: Abagail Martin

GEL Laboratories LLC
CHEMISTRY RADIOCHEMISTRY RADIOBIOASSAY SPECIALTY ANALYTICS
843.556.8171 | 2040 Savage Road | Charleston, SC 29407 | gel.com

Chain of Custody and Analytical Record
(1) COC Number :
Page: 1 of 3
GEL Work Order Number: 768186

GEL Client Name: Kristen Jurinko, Kevin Stephenson
Phone Number:
Project/Site Name: Plant McManus CCR Groundwater Compliance March 2026
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Natalie Piparo, Jay Siewert, Shannon Northen, Ori Kimhi (EnSafe)
Send Results To: knjurink@southernco.com; kmstephe@southernco.com; tgodwin@ensafe.com; npiparo@ensafe.com

Turn Around Time Requested.
Rush subject to surcharge.
Standard:
Rush (Specify):

(5) Sample Analysis Requested
Enter Analysis Requested like 8270 PAH or 6010 Metals

Enter total number of container(s) per test below the request on line that corresponds with the sample ID.

Sample ID Each ID listed will be reported as a unique sample unless otherwise instructed. * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	(2) Field Filtered	(3) QC Code	(4) Sample Matrix	Should this sample be considered: (7) Radioactive (Y or N)	(8) Known or possible Hazards	Total number of containers	(B, Ca) Metals App. III	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	Radium 226/228	NI	NI	NI	< (6) Preservative Type
MCM-MCM-01	03/10/26	1631	N	G	WG			5	X	X	X	X	X				
MCM-MCM-02	03/11/26	1510	N	G	WG			5	X	X	X	X	X				
MCM-MCM-04	03/10/26	1401	N	G	WG			5	X	X	X	X	X				
MCM-MCM-05	03/10/26	1148	N	G	WG			5	X	X	X	X	X				
MCM-MCM-06	03/10/26	1702	N	G	WG			5	X	X	X	X	X				
MCM-MCM-07	03/11/26	1037	N	G	WG			5	X	X	X	X	X				
MCM-MCM-11	03/11/26	1152	N	G	WG			5	X	X	X	X	X				
MCM-MCM-12	03/11/26	1030	N	G	WG			5	X	X	X	X	X				
MCM-MCM-14	03/10/26	1153	N	G	WG			5	X	X	X	X	X				
MCM-MCM-15	03/11/26	1542	N	G	WG			5	X	X	X	X	X				

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature]	3/12/26	1258	1 Theresa Ritter	3/12/26	1258
2			2		
3			3		

Select Deliverable: [ ] Results and QC Summary [ ]Calibration Summary [ ] Raw Data [ ] Standards Traceability
EDD Required? [ ] If yes, specify type.
Required Certification:
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:
Additional Comments: **Task Code: MCM-CCR-ASSMT-2026S1**
For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No ***Cooler Temp: 0, 1, 19, 20, 21***

(1) Chain of Custody Number
Client Determined

(2) Field Filtered
For liquid matrices, indicate with a Y for yes the sample was field filtered.

(3) QC Codes
Equipment Blank (EB) | Matrix Spike (MS)
Field Reagent Blank | Matrix Spike Duplicate (MSD)
Field Duplicate (DUP) | Composite (C)
Trip Blank (TB) | Grab (G)

(4) Matrix Codes
Biosolid (SB) | Leachate (L) | Soil (SO) | Urine (U)
Concrete (C) | Misc Liquid (ML) | Solid Waste (SS) | Vegetation (V)
Drinking Water (DW) | Oil (O) | Storm Water (WS) | Waste Water (WW)
Fecal (FC) | Sediment (SD) | Surface Water (SW) | Water (W)
Filter (F) | Sludge (SL) | Tissue (T) | Wipe (P)
Groundwater (GW)

(6) Preservative Type
Ammonium Acetate (AM) | Nitric Acid (NI) | Sodium Thiosulfate (ST)
Ascorbic Acid (AA) | Sodium Hydroxide (SH) | Sulfuric Acid (SA)
Hexane (HX) | Sodium Bisulfate (SBA) | Trizma (TZ)
Hydrochloric Acid (HA) | Sodium Bisulfite SBI) | Zinc Acetate (ZA)
Methanol (ME)
Leave blank if no preservative is added.

(7) Radioactive *** If yes, email rso@gel.com prior to shipment for approval. Isotopic data should be included in the email and with the sample shipment.***

(8) Known or Possible Hazards
Identify the "Source of the Sample" material
(e.g., NPDES discharge, waste material, stormwater, groundwater, Superfund Site etc.)

RCRA Metals
Arsenic (As) | Chromium (Cr) | Selenium (Se)
Barium (Ba) | Lead (Pb) | Silver (Ag)
Cadmium (Cd) | Mercury (Hg) | Misc. RCRA (MR)

Is this sample known or suspected to be RCRA Hazardous?
Yes [ ] No [ ]

Characteristic
Flammable/Ignitable (FL)
Corrosive (CO)
Reactive (RE)

TSCA Regulated
Polychlorinated biphenyls (PCB)

Listed Waste
Listed Waste (LW)
(F,K,P and U-listed wastes.)
Waste code(s):

Other
Other / Unknown (OT)
(i.e.: asbestos, beryllium, High/low pH, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.

PO Number:
Project #: GPCC00105
GEL Quote #: GELP22-0819
GEL Project Manager: Abagail Martin

GEL Laboratories LLC
CHEMISTRY RADIOCHEMISTRY RADIOBIOASSAY SPECIALTY ANALYTICS
843.556.8171 | 2040 Savage Road | Charleston, SC 29407 | gel.com

Chain of Custody and Analytical Record
(1) COC Number:
Page: 2 of 3
GEL Work Order Number:

GEL Client Name: Kristen Jurinko, Kevin Stephenson
Phone Number:
Project/Site Name: Plant McManus CCR Groundwater Compliance March 2026
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Natalie Piparo, Jay Siewert, Shannon Northen, Ori Kimhi (EnSafe)
Send Results To: knjurink@southernco.com; kmstephe@southernco.com; tgodwin@ensafe.com; npiparo@ensafe.com

Turn Around Time Requested. *Rush subject to surcharge.*
Standard:
Rush (Specify):

(5) Sample Analysis Requested
Enter Analysis Requested like 8270 PAH or 6010 Metals

Enter total number of container(s) per test below the request on line that corresponds with the sample ID.

Sample ID Each ID listed will be reported as a unique sample unless otherwise instructed. * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	(2) Field Filtered	(3) QC Code	(4) Sample Matrix	Should this sample be considered: (7) Radioactive (Y or N)	(8) Known or possible Hazards	Total number of containers	(B, Ca) Metals App. III	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	Radium 226/228	< (6) Preservative Type
MCM-MCM-16	3/12/26	0858	N	G	WG			5	X	X	X	X	X	
MCM-MCM-17	3/10/26	1501	N	G	WG			5	X	X	X	X	X	
MCM-MCM-18	3/10/26	1155	N	G	WG			5	X	X	X	X	X	
MCM-MCM-19	03/11/26	1623	N	G	WG			5	X	X	X	X	X	
MCM-MCM-20	3/12/26	0846	N	G	WG			5	X	X	X	X	X	
MCM-DPZ-02	3/10/26	1653	N	G	WG			5	X	X	X	X	X	
MCM-AP1-FD-01	3/10/26	—	FD	G	WG			5	X	X	X	X	X	
MCM-AP1-FD-02	3/11/26	—	FD	G	WG			5	X	X	X	X	X	
MCM-AP1-FB-01	~~3/11~~ 3/10/26	1735	FB	G	WQ			5	X	X	X	X	X	
MCM-AP1-FB-02	3/11/26	1750	FB	G	WQ			5	X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] EnSafe	3/12/26	1258	1 Thyasia Cotton	3/12/26	1258
2			2		
3			3		

Select Deliverable: [ ] Results and QC Summary [ ]Calibration Summary [ ] Raw Data [ ] Standards Traceability
EDD Required? [ ] If yes, specify type.
Required Certification:
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:
Additional Comments: **Task Code: MCM-CCR-ASSMT-2026S1**
For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 0, 1, 18, 20, 21

(1) Chain of Custody Number
Client Determined

(2) Field Filtered
For liquid matrices, indicate with a Y for yes the sample was field filtered.

(3) QC Codes
Equipment Blank (EB) | Matrix Spike (MS)
Field Reagent Blank | Matrix Spike Duplicate (MSD)
Field Duplicate (DUP) | Composite (C)
Trip Blank (TB) | Grab (G)

(4) Matrix Codes
Biosolid (SB) | Leachate (L) | Soil (SO) | Urine (U)
Concrete (C) | Misc Liquid (ML) | Solid Waste (SS) | Vegetation (V)
Drinking Water (DW) | Oil (O) | Storm Water (WS) | Waste Water (WW)
Fecal (FC) | Sediment (SD) | Surface Water (SW) | Water (W)
Filter (F) | Sludge (SL) | Tissue (T) | Wipe (P)
Groundwater (GW)

(6) Preservative Type
Ammonium Acetate (AM) | Nitric Acid (NI) | Sodium Thiosulfate (ST)
Ascorbic Acid (AA) | Sodium Hydroxide (SH) | Sulfuric Acid (SA)
Hexane (HX) | Sodium Bisulfate (SBA) | Trizma (TZ)
Hydrochloric Acid (HA) | Sodium Bisulfite SBI) | Zinc Acetate (ZA)
Methanol (ME)
Leave blank if no preservative is added.

(7) Radioactive *** *If yes, email rso@gel.com prior to shipment for approval. Isotopic data should be included in the email and with the sample shipment.* ***

(8) Known or Possible Hazards
Identify the "Source of the Sample" material
(e.g., NPDES discharge, waste material, stormwater, groundwater, Superfund Site etc.)

RCRA Metals
Arsenic (As) | Chromium (Cr) | Selenium (Se)
Barium (Ba) | Lead (Pb) | Silver (Ag)
Cadmium (Cd) | Mercury (Hg) | Misc. RCRA (MR)
Is this sample known or suspected to be RCRA Hazardous?
Yes [ ] No [ ]

Characteristic
Flammable/Ignitable (FL)
Corrosive (CO)
Reactive (RE)

TSCA Regulated
Polychlorinated biphenyls (PCB)

Listed Waste
Listed Waste (LW)
(F,K,P and U-listed wastes.)
Waste code(s):

Other
Other / Unknown (OT)
(i.e.: asbestos, beryllium, High low pH, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.

PO Number:
Project #: GPCC00105
GEL Quote #: GELP22-0819
GEL Project Manager: Abagail Martin

GEL Laboratories LLC
CHEMISTRY RADIOCHEMISTRY RADIOBIOASSAY SPECIALTY ANALYTICS
843.556.8171 | 2040 Savage Road | Charleston, SC 29407 | gel.com

Chain of Custody and Analytical Record
(1) COC Number :
Page: 3 of 3
GEL Work Order Number:

GEL Client Name: Kristen Jurinko, Kevin Stephenson
Phone Number:
Project/Site Name: Plant McManus CCR Groundwater Compliance March 2026
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Natalie Piparo, Jay Siewert, Shannon Northen, Ori Kimhi (EnSafe)
Send Results To: knjurink@southernco.com; kmstephe@southernco.com; tgodwin@ensafe.com; npiparo@ensafe.com

Turn Around Time Requested.
Rush subject to surcharge.
Standard:
Rush (Specify):

(5) Sample Analysis Requested
Enter Analysis Requested like 8270 PAH or 6010 Metals

Enter total number of container(s) per test below the request on line that corresponds with the sample ID.

Sample ID Each ID listed will be reported as a unique sample unless otherwise instructed. ** For composites - indicate start and stop date/time*	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	(2) Field Filtered	(3) QC Code	(4) Sample Matrix	Should this sample be considered: (7) Radioactive (Y or N)	(8) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca)	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	Radium 226/228	NI	NI	NI	< (6) Preservative Type
MCM-AP1-EB-01	3/10/26	1725	EB	G	WQ			5	X	X	X	X	X				
MCM-AP1-EB-02	03/11/26	1745	EB	G	WQ			5	X	X	X	X	X				

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	EnSafe 3/12/26	1258	1	3/12/26	1258
2			2		
3			3		

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 0,1,19,20,21

Select Deliverable: [ ] Results and QC Summary [ ]Calibration Summary [ ] Raw Data [ ] Standards Traceability
EDD Required? [ ] If yes, specify type.
Required Certification:
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:
Additional Comments: **Task Code: MCM-CCR-ASSMT-2026S1**
For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

(1) Chain of Custody Number
Client Determined

(2) Field Filtered
For liquid matrices, indicate with a Y for yes the sample was field filtered.

(3) QC Codes
Equipment Blank (EB) | Matrix Spike (MS)
Field Reagent Blank | Matrix Spike Duplicate (MSD)
Field Duplicate (DUP) | Composite (C)
Trip Blank (TB) | Grab (G)

(4) Matrix Codes
Biosolid (SB) | Leachate (L) | Soil (SO) | Urine (U)
Concrete (C) | Misc Liquid (ML) | Solid Waste (SS) | Vegetation (V)
Drinking Water (DW) | Oil (O) | Storm Water (WS) | Waste Water (WW)
Fecal (FC) | Sediment (SD) | Surface Water (SW) | Water (W)
Filter (F) | Sludge (SL) | Tissue (T) | Wipe (P)
Groundwater (GW)

(6) Preservative Type
Ammonium Acetate (AM) | Nitric Acid (NI) | Sodium Thiosulfate (ST)
Ascorbic Acid (AA) | Sodium Hydroxide (SH) | Sulfuric Acid (SA)
Hexane (HX) | Sodium Bisulfate (SBA) | Trizma (TZ)
Hydrochloric Acid (HA) | Sodium Bisulfite SBI) | Zinc Acetate (ZA)
Methanol (ME)
Leave blank if no preservative is added.

(7) Radioactive **** If yes, email rso@gel.com prior to shipment for approval. Isotopic data should be included in the email and with the sample shipment.****

(8) Known or Possible Hazards
Identify the "Source of the Sample" material
(e.g., NPDES discharge, waste material, stormwater, groundwater, Superfund Site etc.)

RCRA Metals
Arsenic (As) | Chromium (Cr) | Selenium (Se)
Barium (Ba) | Lead (Pb) | Silver (Ag)
Cadmium (Cd) | Mercury (Hg) | Misc. RCRA (MR)

Is this sample known or suspected to be RCRA Hazardous?
Yes [ ] No [ ]

Characteristic
Flammable/Ignitable (FL)
Corrosive (CO)
Reactive (RE)

TSCA Regulated
Polychlorinated biphenyls (PCB)

Listed Waste
Listed Waste (LW)
(F,K,P and U-listed wastes.)
Waste code(s):

Other
Other / Unknown (OT)
(i.e.: asbestos, beryllium, High/low pH, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC | SDG/AR/COC/Work Order: 768186 | GEL PM: AM

Received By: CLM | Date Received at GEL: 3/12/26

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR5-23 Daily Calibration Performed? Y N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
cooler 1	21°	✓	cooler 6	19°	✓
2	20°	✓	7	20°	✓
3	0°				
4	1°				
5	1°				

Suspected Hazard Information	Yes	No
A) Shipped as a DOT Hazardous?		✓
B) Did the client designate the samples are to be received as radioactive?		✓
C) Did the RSO classify the samples as radioactive?		✓
D) Are there any sample hazards to document?		✓
E) Was a SDS received and reviewed by Lab Safety?		✓

*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.

Hazard Class Shipped: UN#:
If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___

COC notation or radioactive stickers on containers equal client designation.

Maximum Net Counts Observed* (Observed Counts - Area Background Counts): ___ (CPM) mR/Hr
Classified as: Rad 1 Rad 2 Rad 3

If yes, select Hazards below.
PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:

Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: (Wet Ice) Ice Packs Dry Ice (None) Other: RCHEM *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Missing Container (provide details) Other (describe) Received 2 extra containers for analysis.
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:
10.) Total Alk for ID's MCM-API-FD-01 and MCM-API-FD-02. All metals containers for 768186 shared with 768188 and 768190 except samples 17, 19, & 21, 18, 20, & 22.

PM (or PMA) review: Initials [signature] Date 3/13/26

☐ Continuation Form Required when selected

GL-CHL-SR-001 Rev 8

Outlook

RE: McManus Sample Containers 3/12

From Natalie Piparo <npiparo@ensafe.com>
Date Fri 3/13/2026 9:55 AM
To Abagail Martin <Abagail.Martin@gel.com>; Jurinko, Kristen Nichole <knjurink@southernco.com>; Stephenson, Kevin Mace <kmstephe@southernco.com>; Trent Godwin <tgodwin@ensafe.com>
Cc Team.Martin <Team.Martin@gel.com>

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Hi Abagail,

Thanks for reaching out about these issues, I believe I can answer both questions.

1. Yes, both COCs will share one metals bottle that will be analyzed for App III and App IV metals listed as well as the additional metals on the other COC.
2. Apologies, we were supposed to remove the alkalinity container from FD-01 and FD-02. Please do not analyze those samples for alkalinity.

Let me know if you have any more questions or concerns.

Thanks,

Natalie Piparo
Environmental Scientist

ENSAFE creative thinking. | custom solutions.

From: Abagail Martin <Abagail.Martin@gel.com>
Sent: Friday, March 13, 2026 9:48 AM
To: Jurinko, Kristen Nichole <knjurink@southernco.com>; Stephenson, Kevin Mace <kmstephe@southernco.com>; Trent Godwin <tgodwin@ensafe.com>; Natalie Piparo <npiparo@ensafe.com>
Cc: Team.Martin <Team.Martin@gel.com>
Subject: McManus Sample Containers 3/12

Some people who received this message don't often get email from abagail.martin@gel.com. Learn why this is important

Good morning,

Please see the attached COCs for McManus samples received at GEL yesterday. There are a few discrepancies with the container counts listed on the COC:

1. Sample IDs 1-16 (MCM-MCM-01 to MCM-MCM-DPZ-02) from the first COC (pages 1-3) seem to share a metals container with the next COC marked for additional metals. Between these COCs, there were six total containers rather than the listed seven. Since these sample IDs are the same

between the two COCs, we are assuming we should share the metals container between both COCs/reports, but please let me know if that is not correct.

2. We received a total alkalinity container for sample IDs: MCM-AP1-FD-01 and MCM-AP1-FD-02. I do not see this requested on the COC - please let me know if these two samples should be analyzed for alkalinity.

Thanks,

Abagail Martin
Project Manager

GEL Laboratories LLC 45 YEARS

2040 Savage Road, Charleston, SC 29407
Office Direct: 843.769.7371 | Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Abagail.Martin@gel.com| Website: www.gel.com
Analytical Testing

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List of current GEL Certifications as of 26 March 2026

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2025022
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approval	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2026-139
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of LA	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122026-50
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
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2040 Savage Road | Charleston, SC 29407
843.556.8171

gel.com

April 08, 2026

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance Relog: Radiochemistry
Work Order: 768189

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 12, 2026. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
768189001	MCM-MCM-01	Ground Water	03/10/26 16:31	03/12/26 12:58
768189002	MCM-MCM-02	Ground Water	03/11/26 15:10	03/12/26 12:58
768189003	MCM-MCM-04	Ground Water	03/10/26 14:01	03/12/26 12:58
768189004	MCM-MCM-05	Ground Water	03/10/26 11:48	03/12/26 12:58
768189005	MCM-MCM-06	Ground Water	03/10/26 17:02	03/12/26 12:58
768189006	MCM-MCM-07	Ground Water	03/11/26 10:37	03/12/26 12:58
768189007	MCM-MCM-11	Ground Water	03/11/26 11:52	03/12/26 12:58
768189008	MCM-MCM-12	Ground Water	03/11/26 10:30	03/12/26 12:58
768189009	MCM-MCM-14	Ground Water	03/10/26 11:53	03/12/26 12:58
768189010	MCM-MCM-15	Ground Water	03/10/26 15:42	03/12/26 12:58
768189011	MCM-MCM-16	Ground Water	03/12/26 08:58	03/12/26 12:58
768189012	MCM-MCM-17	Ground Water	03/10/26 15:01	03/12/26 12:58
768189013	MCM-MCM-18	Ground Water	03/10/26 11:55	03/12/26 12:58
768189014	MCM-MCM-19	Ground Water	03/11/26 16:23	03/12/26 12:58
768189015	MCM-MCM-20	Ground Water	03/12/26 08:46	03/12/26 12:58
768189016	MCM-DPZ-02	Ground Water	03/10/26 16:53	03/12/26 12:58

768189017	MCM-AP1-FD-01	Ground Water	03/10/26 12:00	03/12/26 12:58
768189018	MCM-AP1-FD-02	Ground Water	03/11/26 12:00	03/12/26 12:58
768189019	MCM-AP1-FB-01	Ground Water	03/10/26 17:35	03/12/26 12:58
768189020	MCM-AP1-FB-02	Ground Water	03/11/26 17:50	03/12/26 12:58
768189021	MCM-AP1-EB-01	Ground Water	03/10/26 17:25	03/12/26 12:58
768189022	MCM-AP1-EB-02	Ground Water	03/11/26 17:45	03/12/26 12:58

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

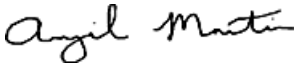
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	08-APR-2026
EPA 903.1 Modified	07-APR-2026
EPA 903.1 Modified	08-APR-2026
EPA 904.0/SW846 9320 Modified	03-APR-2026
EPA 904.0/SW846 9320 Modified	30-MAR-2026

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4705.

Sincerely,



Abagail Martin
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 768189 GEL Work Order: 768189

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

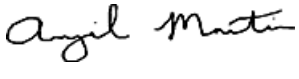
** Analyte is a surrogate compound

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Abagail Martin.

Reviewed by 

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: April 8, 2026

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-MCM-01
Sample ID: 768189001
Matrix: WG
Collect Date: 10-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		2.83	+/-1.05	1.23	+/-1.29	3.00	pCi/L			CH7	04/03/26	0928	2961234	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.46	+/-1.22	1.23	+/-1.46		pCi/L		1	NXL1	04/08/26	1216	2961548	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.63	+/-0.607	0.335	+/-0.675	1.00	pCi/L			AW6	04/08/26	0802	2961826	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961234	84.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: April 8, 2026

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-MCM-02
Sample ID: 768189002
Matrix: WG
Collect Date: 11-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.02	+/-0.801	1.24	+/-0.845	3.00	pCi/L			CH7	04/03/26	0928	2961234	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.30	+/-0.878	1.24	+/-0.919		pCi/L		1	NXL1	04/08/26	1216	2961548	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.287	+/-0.360	0.599	+/-0.363	1.00	pCi/L			AW6	04/08/26	0802	2961826	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961234	85.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: April 8, 2026

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-MCM-04
Sample ID: 768189003
Matrix: WG
Collect Date: 10-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.20	+/-0.931	1.47	+/-0.983	3.00	pCi/L			CH7	04/03/26	0929	2961234	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.57	+/-1.10	1.47	+/-1.18		pCi/L		1	NXL1	04/08/26	1216	2961548	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.37	+/-0.580	0.463	+/-0.648	1.00	pCi/L			AW6	04/08/26	0802	2961826	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961234	90.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: April 8, 2026

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-MCM-05
Sample ID: 768189004
Matrix: WG
Collect Date: 10-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.08	+/-1.15	1.40	+/-1.41	3.00	pCi/L			CH7	04/03/26	1107	2961234	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		8.42	+/-1.62	1.40	+/-2.18		pCi/L		1	NXL1	04/08/26	1216	2961548	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		5.34	+/-1.14	0.437	+/-1.67	1.00	pCi/L			AW6	04/08/26	0840	2961826	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961234	90.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: April 8, 2026

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-MCM-06
Sample ID: 768189005
Matrix: WG
Collect Date: 10-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		4.99	+/-1.33	1.59	+/-1.87	3.00	pCi/L			CH7	04/03/26	0928	2961234	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		11.1	+/-1.77	1.59	+/-2.38		pCi/L		1	NXL1	04/08/26	1216	2961548	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		6.07	+/-1.17	0.561	+/-1.48	1.00	pCi/L			AW6	04/08/26	0840	2961826	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961234	95.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-MCM-07
Sample ID: 768189006
Matrix: WG
Collect Date: 11-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.436	+/-0.920	1.62	+/-0.927	3.00	pCi/L			CH7	04/03/26	0929	2961234	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.91	+/-1.24	1.62	+/-1.35		pCi/L		1	NXL1	04/08/26	1216	2961548	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.47	+/-0.833	0.701	+/-0.976	1.00	pCi/L			AW6	04/08/26	0840	2961826	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961234	94.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-MCM-11
Sample ID: 768189007
Matrix: WG
Collect Date: 11-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.640	+/-0.925	1.59	+/-0.941	3.00	pCi/L			CH7	04/03/26	0929	2961234	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.12	+/-1.01	1.59	+/-1.03		pCi/L		1	NXL1	04/08/26	1216	2961548	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.481	+/-0.411	0.596	+/-0.419	1.00	pCi/L			AW6	04/08/26	0840	2961826	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961234	91.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-MCM-12
Sample ID: 768189008
Matrix: WG
Collect Date: 11-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.24	+/-0.867	1.33	+/-0.926	3.00	pCi/L			CH7	04/03/26	0929	2961234	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.49	+/-1.03	1.33	+/-1.11		pCi/L		1	NXL1	04/08/26	1216	2961548	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.25	+/-0.554	0.419	+/-0.614	1.00	pCi/L			AW6	04/08/26	0840	2961826	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961234	93.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-MCM-14
Sample ID: 768189009
Matrix: WG
Collect Date: 10-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.81	+/-1.31	1.65	+/-1.66	3.00	pCi/L			CH7	04/03/26	0929	2961234	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		6.97	+/-1.56	1.65	+/-1.96		pCi/L		1	NXL1	04/08/26	1216	2961548	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.16	+/-0.832	0.390	+/-1.04	1.00	pCi/L			AW6	04/08/26	0840	2961826	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961234	83.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-MCM-15
Sample ID: 768189010
Matrix: WG
Collect Date: 10-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.522	+/-0.719	1.24	+/-0.733	3.00	pCi/L			CH7	04/03/26	0929	2961234	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.26	+/-0.837	1.24	+/-0.856		pCi/L		1	NXL1	04/08/26	1216	2961548	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.741	+/-0.428	0.461	+/-0.442	1.00	pCi/L			AW6	04/08/26	0840	2961826	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961234	85	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-MCM-16
Sample ID: 768189011
Matrix: WG
Collect Date: 12-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.987	+/-0.851	1.35	+/-0.891	3.00	pCi/L			CH7	04/03/26	0929	2961234	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.65	+/-0.957	1.35	+/-1.00		pCi/L		1	NXL1	04/08/26	1216	2961548	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.659	+/-0.439	0.521	+/-0.464	1.00	pCi/L			AW6	04/08/26	0840	2961826	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961234	81.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-MCM-17
Sample ID: 768189012
Matrix: WG
Collect Date: 10-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		3.83	+/-1.29	1.56	+/-1.64	3.00	pCi/L			CH7	04/03/26	0929	2961234	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		6.70	+/-1.56	1.56	+/-1.98		pCi/L		1	NXL1	04/08/26	1216	2961548	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.87	+/-0.886	0.536	+/-1.11	1.00	pCi/L			AW6	04/08/26	0916	2961826	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961234	87.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
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Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-MCM-18
Sample ID: 768189013
Matrix: WG
Collect Date: 10-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		5.41	+/-1.54	1.74	+/-2.10	3.00	pCi/L			CH7	04/03/26	1107	2961234	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		10.4	+/-1.88	1.74	+/-2.50		pCi/L		1	NXL1	04/08/26	1216	2961548	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		5.02	+/-1.08	0.466	+/-1.34	1.00	pCi/L			AW6	04/08/26	0916	2961826	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961234	95.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
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Report Date: April 8, 2026

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-MCM-19
Sample ID: 768189014
Matrix: WG
Collect Date: 11-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		7.86	+/-1.90	2.16	+/-2.82	3.00	pCi/L			CH7	04/03/26	1107	2961234	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		9.97	+/-2.05	2.16	+/-2.96		pCi/L		1	NXL1	04/08/26	1216	2961548	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.11	+/-0.780	0.628	+/-0.920	1.00	pCi/L			AW6	04/08/26	0916	2961826	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961234	90.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company
Address : 241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Report Date: April 8, 2026

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-MCM-20
Sample ID: 768189015
Matrix: WG
Collect Date: 12-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		27.7	+/-2.85	2.00	+/-7.86	3.00	pCi/L			CH7	04/03/26	1107	2961234	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		30.5	+/-2.96	2.00	+/-7.92		pCi/L		1	NXL1	04/08/26	1216	2961548	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		2.89	+/-0.797	0.436	+/-0.970	1.00	pCi/L			AW6	04/08/26	0916	2961826	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961234	89.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: April 8, 2026

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-DPZ-02
Sample ID: 768189016
Matrix: WG
Collect Date: 10-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.22	+/-0.868	1.32	+/-0.926	3.00	pCi/L			CH7	04/03/26	0930	2961234	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.31	+/-1.29	1.32	+/-1.42		pCi/L		1	NXL1	04/08/26	1216	2961548	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.09	+/-0.948	0.716	+/-1.07	1.00	pCi/L			AW6	04/08/26	0916	2961826	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961234	84.9	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: April 8, 2026

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-AP1-FD-01
Sample ID: 768189017
Matrix: WG
Collect Date: 10-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228		4.87	+/-1.48	1.69	+/-1.96	3.00	pCi/L			CH7	04/03/26	0929	2961234	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		8.21	+/-1.74	1.69	+/-2.24		pCi/L		1	NXL1	04/08/26	1216	2961548	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.34	+/-0.926	0.585	+/-1.08	1.00	pCi/L			AW6	04/08/26	0916	2961826	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961234	95.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: April 8, 2026

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-AP1-FD-02
Sample ID: 768189018
Matrix: WG
Collect Date: 11-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.608	+/-0.891	1.54	+/-0.906	3.00	pCi/L			CH7	04/03/26	0929	2961234	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		1.68	+/-1.04	1.54	+/-1.07		pCi/L		1	NXL1	04/08/26	1216	2961548	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.07	+/-0.538	0.565	+/-0.561	1.00	pCi/L			AW6	04/07/26	1025	2961827	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961234	87.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: April 8, 2026

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-AP1-FB-01
Sample ID: 768189019
Matrix: WQ
Collect Date: 10-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.963	+/-0.972	1.59	+/-1.00	3.00	pCi/L			CH7	04/03/26	0929	2961234	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.996	+/-0.983	1.59	+/-1.02		pCi/L		1	NXL1	04/08/26	1216	2961548	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.0335	+/-0.147	0.392	+/-0.147	1.00	pCi/L			AW6	04/07/26	1025	2961827	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961234	89.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: April 8, 2026

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-AP1-FB-02
Sample ID: 768189020
Matrix: WQ
Collect Date: 11-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.708	+/-0.798	1.33	+/-0.819	3.00	pCi/L			CH7	04/03/26	0930	2961234	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.04	+/-0.883	1.33	+/-0.905		pCi/L		1	NXL1	04/08/26	1216	2961548	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.335	+/-0.379	0.618	+/-0.385	1.00	pCi/L			AW6	04/07/26	1025	2961827	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961234	75.5	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
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Report Date: April 8, 2026

Contact: Kristen Jurinko
Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-AP1-EB-01
Sample ID: 768189021
Matrix: WQ
Collect Date: 10-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.15	+/-1.17	1.91	+/-1.20	3.00	pCi/L			ST2	03/30/26	0939	2961864	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.56	+/-1.23	1.91	+/-1.27		pCi/L			NXL1	04/08/26	0845	2961549	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.407	+/-0.399	0.590	+/-0.405	1.00	pCi/L			AW6	04/07/26	1025	2961827	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961864	74.6	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Report Date: April 8, 2026

Contact: Kristen Jurinko

Project: Plant McManus CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: MCM-AP1-EB-02
Sample ID: 768189022
Matrix: WQ
Collect Date: 11-MAR-26
Receive Date: 12-MAR-26
Collector: Client

Project: GPCC00105
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	0.531	+/-1.07	1.90	+/-1.08	3.00	pCi/L			ST2	03/30/26	0937	2961864	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.03	+/-1.17	1.90	+/-1.18		pCi/L			NXL1	04/08/26	0845	2961549	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.500	+/-0.467	0.703	+/-0.473	1.00	pCi/L			AW6	04/07/26	1025	2961827	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2961864	79.3	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 46
Analytical Batch: 2961548

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
768189001	MCM-MCM-01
768189002	MCM-MCM-02
768189003	MCM-MCM-04
768189004	MCM-MCM-05
768189005	MCM-MCM-06
768189006	MCM-MCM-07
768189007	MCM-MCM-11
768189008	MCM-MCM-12
768189009	MCM-MCM-14
768189010	MCM-MCM-15
768189011	MCM-MCM-16
768189012	MCM-MCM-17
768189013	MCM-MCM-18
768189014	MCM-MCM-19
768189015	MCM-MCM-20
768189016	MCM-DPZ-02
768189017	MCM-AP1-FD-01
768189018	MCM-AP1-FD-02
768189019	MCM-AP1-FB-01
768189020	MCM-AP1-FB-02

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 46
Analytical Batch: 2961549

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
768189021	MCM-AP1-EB-01
768189022	MCM-AP1-EB-02

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2961234

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
768189001	MCM-MCM-01
768189002	MCM-MCM-02
768189003	MCM-MCM-04
768189004	MCM-MCM-05
768189005	MCM-MCM-06
768189006	MCM-MCM-07
768189007	MCM-MCM-11
768189008	MCM-MCM-12
768189009	MCM-MCM-14
768189010	MCM-MCM-15
768189011	MCM-MCM-16
768189012	MCM-MCM-17
768189013	MCM-MCM-18
768189014	MCM-MCM-19
768189015	MCM-MCM-20
768189016	MCM-DPZ-02
768189017	MCM-AP1-FD-01
768189018	MCM-AP1-FD-02
768189019	MCM-AP1-FB-01
768189020	MCM-AP1-FB-02
1206406976	Method Blank (MB) **Batch 2961234**
1206406977	768189001(MCM-MCM-01) Sample Duplicate (DUP)
1206406978	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts
Samples 768189013 (MCM-MCM-18), 768189014 (MCM-MCM-19) and 768189015 (MCM-MCM-20) were recounted to verify sample results. Recounts are reported.

Sample 768189004 (MCM-MCM-05) was recounted due to a suspected false positive. The recount is reported.

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2961864

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
768189021	MCM-AP1-EB-01
768189022	MCM-AP1-EB-02
1206408167	Method Blank (MB) **Batch 2961864**
1206408168	768189021(MCM-AP1-EB-01) Sample Duplicate (DUP)
1206408169	Laboratory Control Sample (LCS)
1206408170	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Recounts
Sample 1206408170 (LCSD) was recounted due to high recovery. The recount is reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2961826

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
768189001	MCM-MCM-01
768189002	MCM-MCM-02
768189003	MCM-MCM-04
768189004	MCM-MCM-05
768189005	MCM-MCM-06
768189006	MCM-MCM-07
768189007	MCM-MCM-11
768189008	MCM-MCM-12
768189009	MCM-MCM-14
768189010	MCM-MCM-15
768189011	MCM-MCM-16

768189012	MCM-MCM-17
768189013	MCM-MCM-18
768189014	MCM-MCM-19
768189015	MCM-MCM-20
768189016	MCM-DPZ-02
768189017	MCM-AP1-FD-01
1206408052	Method Blank (MB) **Batch 2961826**
1206408053	768189001(MCM-MCM-01) Sample Duplicate (DUP)
1206408054	768189001(MCM-MCM-01) Matrix Spike (MS)
1206408055	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
The matrix spike, 1206408054 (MCM-MCM-01MS), aliquot was reduced to conserve sample volume.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2961827

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
768189018	MCM-AP1-FD-02
768189019	MCM-AP1-FB-01
768189020	MCM-AP1-FB-02
768189021	MCM-AP1-EB-01
768189022	MCM-AP1-EB-02
1206408056	Method Blank (MB) **Batch 2961827**
1206408057	768189022(MCM-AP1-EB-02) Sample Duplicate (DUP)
1206408058	768189022(MCM-AP1-EB-02) Matrix Spike (MS)
1206408059	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

The matrix spike, 1206408058 (MCM-AP1-EB-02MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Client : **Georgia Power Company**
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **768189**

Report Date: April 8, 2026

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2961234										
QC1206406977 768189001 DUP										
Radium-228		2.83	U	0.898	pCi/L	78.1		(0% - 100%)	CH7	04/03/2609:28
	Uncert:	+/-1.05		+/-0.791						
	TPU:	+/-1.29		+/-0.826						
QC1206406978 LCS										
Radium-228	58.2			62.5	pCi/L		107	(75%-125%)	CH7	04/03/2609:29
	Uncert:			+/-4.20						
	TPU:			+/-17.1						
QC1206406976 MB										
Radium-228			U	0.171	pCi/L				CH7	04/03/2609:29
	Uncert:			+/-0.932						
	TPU:			+/-0.933						
Batch 2961864										
QC1206408168 768189021 DUP										
Radium-228	U	1.15	U	1.44	pCi/L	0		N/A	ST2	03/30/2609:39
	Uncert:	+/-1.17		+/-1.16						
	TPU:	+/-1.20		+/-1.22						
QC1206408169 LCS										
Radium-228	20.6			25.3	pCi/L		123	(75%-125%)	ST2	03/30/2609:37
	Uncert:			+/-1.54						
	TPU:			+/-6.85						

QC Summary

Workorder: **768189**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2961864										
QC1206408170 LCSD										
Radium-228	20.6			23.8	pCi/L	5.93	115	(0%-20%)	ST2	03/30/2611:51
Uncert:				+/-1.57						
TPU:				+/-6.50						
QC1206408167 MB										
Radium-228			U	0.328	pCi/L				ST2	03/30/2609:38
Uncert:				+/-0.314						
TPU:				+/-0.325						
Rad Ra-226										
Batch 2961826										
QC1206408053 768189001 DUP										
Radium-226		1.63		1.75	pCi/L	6.77		(0% - 100%)	AW6	04/08/2609:52
Uncert:		+/-0.607		+/-0.736						
TPU:		+/-0.675		+/-0.797						
QC1206408055 LCS										
Radium-226	27.2			23.8	pCi/L		87.6	(75%-125%)	AW6	04/08/2609:52
Uncert:				+/-2.28						
TPU:				+/-4.14						
QC1206408052 MB										
Radium-226			U	0.285	pCi/L				AW6	04/08/2609:52
Uncert:				+/-0.309						
TPU:				+/-0.313						
QC1206408054 768189001 MS										
Radium-226	129	1.63		105	pCi/L		80.5	(75%-125%)	AW6	04/08/2609:52
Uncert:		+/-0.607		+/-10.3						
TPU:		+/-0.675		+/-22.0						
Batch 2961827										

QC Summary

Workorder: **768189**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Ra-226										
Batch 2961827										
QC1206408057 768189022 DUP										
Radium-226	U	0.500	U	0.268	pCi/L	0		N/A	AW6	04/07/2610:53
	Uncert:	+/-0.467		+/-0.268						
	TPU:	+/-0.473		+/-0.271						
QC1206408059 LCS										
Radium-226	27.2			24.4	pCi/L		89.8	(75%-125%)	AW6	04/07/2611:13
	Uncert:			+/-2.31						
	TPU:			+/-4.82						
QC1206408056 MB										
Radium-226			U	0.105	pCi/L				AW6	04/07/2610:53
	Uncert:			+/-0.192						
	TPU:			+/-0.192						
QC1206408058 768189022 MS										
Radium-226	137 U	0.500		168	pCi/L		122	(75%-125%)	AW6	04/07/2611:13
	Uncert:	+/-0.467		+/-14.7						
	TPU:	+/-0.473		+/-28.4						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
** Indicates analyte is a surrogate/tracer compound.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

PO Number:
Project #: GPCC00105
GEL Quote #: GELP22-0819
GEL Project Manager: Abagail Martin

GEL Laboratories LLC
CHEMISTRY RADIOCHEMISTRY RADIOBIOASSAY SPECIALTY ANALYTICS
843.556.8171 | 2040 Savage Road | Charleston, SC 29407 | gel.com

Chain of Custody and Analytical Record
(1) COC Number :
Page: 1 of 3
GEL Work Order Number: 768186

GEL Client Name: Kristen Jurinko, Kevin Stephenson
Phone Number:
Project/Site Name: Plant McManus CCR Groundwater Compliance March 2026
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Natalie Piparo, Jay Siewert, Shannon Northen, Ori Kimhi (EnSafe)
Send Results To: knjurink@southernco.com; kmstephe@southernco.com; tgodwin@ensafe.com; npiparo@ensafe.com

Turn Around Time Requested.
Rush subject to surcharge.
Standard:
Rush (Specify):

(5) Sample Analysis Requested
Enter Analysis Requested like 8270 PAH or 6010 Metals

Enter total number of container(s) per test below the request on line that corresponds with the sample ID.

Sample ID Each ID listed will be reported as a unique sample unless otherwise instructed. * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	(2) Field Filtered	(3) QC Code	(4) Sample Matrix	Should this sample be considered: (7) Radioactive (Y or N)	(8) Known or possible Hazards	Total number of containers	(B, Ca) Metals App. III	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	Radium 226/228	NI	NI	NI	< (6) Preservative Type
MCM-MCM-01	03/10/26	1631	N	G	WG			5	X	X	X	X	X				
MCM-MCM-02	03/11/26	1510	N	G	WG			5	X	X	X	X	X				
MCM-MCM-04	03/10/26	1401	N	G	WG			5	X	X	X	X	X				
MCM-MCM-05	03/10/26	1148	N	G	WG			5	X	X	X	X	X				
MCM-MCM-06	03/10/26	1702	N	G	WG			5	X	X	X	X	X				
MCM-MCM-07	03/11/26	1037	N	G	WG			5	X	X	X	X	X				
MCM-MCM-11	03/11/26	1152	N	G	WG			5	X	X	X	X	X				
MCM-MCM-12	03/11/26	1030	N	G	WG			5	X	X	X	X	X				
MCM-MCM-14	03/10/26	1153	N	G	WG			5	X	X	X	X	X				
MCM-MCM-15	03/11/26	1542	N	G	WG			5	X	X	X	X	X				

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] FedEx	3/12/26	1258	1 Tyasia Rutherford	3/12/26	1258
2			2		
3			3		

Select Deliverable: [ ] Results and QC Summary [ ] Calibration Summary [ ] Raw Data [ ] Standards Traceability
EDD Required? [ ] If yes, specify type.
Required Certification:
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:
Additional Comments: **Task Code: MCM-CCR-ASSMT-2026S1**
For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* 0.1, 19, 20, 21

(1) Chain of Custody Number
Client Determined

(2) Field Filtered
For liquid matrices, indicate with a Y for yes the sample was field filtered.

(3) QC Codes
Equipment Blank (EB) | Matrix Spike (MS)
Field Reagent Blank | Matrix Spike Duplicate (MSD)
Field Duplicate (DUP) | Composite (C)
Trip Blank (TB) | Grab (G)

(4) Matrix Codes
Biosolid (SB) | Leachate (L) | Soil (SO) | Urine (U)
Concrete (C) | Misc Liquid (ML) | Solid Waste (SS) | Vegetation (V)
Drinking Water (DW) | Oil (O) | Storm Water (WS) | Waste Water (WW)
Fecal (FC) | Sediment (SD) | Surface Water (SW) | Water (W)
Filter (F) | Sludge (SL) | Tissue (T) | Wipe (P)
Groundwater (GW)

(6) Preservative Type
Ammonium Acetate (AM) | Nitric Acid (NI) | Sodium Thiosulfate (ST)
Ascorbic Acid (AA) | Sodium Hydroxide (SH) | Sulfuric Acid (SA)
Hexane (HX) | Sodium Bisulfate (SBA) | Trizma (TZ)
Hydrochloric Acid (HA) | Sodium Bisulfite SBI) | Zinc Acetate (ZA)
Methanol (ME)
Leave blank if no preservative is added.

(7) Radioactive **** If yes, email rso@gel.com prior to shipment for approval. Isotopic data should be included in the email and with the sample shipment.****

(8) Known or Possible Hazards
Identify the "Source of the Sample" material
(e.g., NPDES discharge, waste material, stormwater, groundwater, Superfund Site etc.)

RCRA Metals
Arsenic (As) | Chromium (Cr) | Selenium (Se)
Barium (Ba) | Lead (Pb) | Silver (Ag)
Cadmium (Cd) | Mercury (Hg) | Misc. RCRA (MR)

Is this sample known or suspected to be RCRA Hazardous?
Yes [ ] No [ ]

Characteristic
Flammable/Ignitable (FL)
Corrosive (CO)
Reactive (RE)

TSCA Regulated
Polychlorinated biphenyls (PCB)

Listed Waste
Listed Waste (LW)
(F,K,P and U-listed wastes.)
Waste code(s):

Other
Other / Unknown (OT)
(i.e.: asbestos, beryllium, High/low pH, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.

PO Number:
Project #: GPCC00105
GEL Quote #: GELP22-0819
GEL Project Manager: Abagail Martin

GEL Laboratories LLC
CHEMISTRY RADIOCHEMISTRY RADIOBIOASSAY SPECIALTY ANALYTICS
843.556.8171 | 2040 Savage Road | Charleston, SC 29407 | gel.com

Chain of Custody and Analytical Record
(1) COC Number:
Page: 2 of 3
GEL Work Order Number:

GEL Client Name: Kristen Jurinko, Kevin Stephenson
Phone Number:
Project/Site Name: Plant McManus CCR Groundwater Compliance March 2026
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Natalie Piparo, Jay Siewert, Shannon Northen, Ori Kimhi (EnSafe)
Send Results To: knjurink@southernco.com; kmstephe@southernco.com; tgodwin@ensafe.com; npiparo@ensafe.com

Turn Around Time Requested. *Rush subject to surcharge.*
Standard:
Rush (Specify):

(5) Sample Analysis Requested
Enter Analysis Requested like 8270 PAH or 6010 Metals

Enter total number of container(s) per test below the request on line that corresponds with the sample ID.

Sample ID (Each ID listed will be reported as a unique sample unless otherwise instructed. * For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	(2) Field Filtered	(3) QC Code	(4) Sample Matrix	Should this sample be considered: (7) Radioactive (Y or N)	(8) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca)	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	Radium 226/228	< (6) Preservative Type
MCM-MCM-16	3/12/26	0858	N	G	WG			5	X	X	X	X	X	
MCM-MCM-17	3/10/26	1501	N	G	WG			5	X	X	X	X	X	
MCM-MCM-18	3/10/26	1155	N	G	WG			5	X	X	X	X	X	
MCM-MCM-19	03/11/26	1623	N	G	WG			5	X	X	X	X	X	
MCM-MCM-20	3/12/26	0846	N	G	WG			5	X	X	X	X	X	
MCM-DPZ-02	3/10/26	1653	N	G	WG			5	X	X	X	X	X	
MCM-AP1-FD-01	3/10/26	—	FD	G	WG			5	X	X	X	X	X	
MCM-AP1-FD-02	3/11/26	—	FD	G	WG			5	X	X	X	X	X	
MCM-AP1-FB-01	~~3/11~~ 3/10/26	1735	FB	G	WQ			5	X	X	X	X	X	
MCM-AP1-FB-02	3/11/26	1750	FB	G	WQ			5	X	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1 [signature] EnSafe	3/12/26	1258	1 Thyasia Cotton	3/12/26	1258
2			2		
3			3		

Select Deliverable: [ ] Results and QC Summary [ ]Calibration Summary [ ] Raw Data [ ] Standards Traceability
EDD Required? [ ] If yes, specify type.
Required Certification:
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:
Additional Comments: **Task Code: MCM-CCR-ASSMT-2026S1**
For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 0, 1, 18, 20, 21

(1) Chain of Custody Number
Client Determined

(2) Field Filtered
For liquid matrices, indicate with a Y for yes the sample was field filtered.

(3) QC Codes
Equipment Blank (EB) | Matrix Spike (MS)
Field Reagent Blank | Matrix Spike Duplicate (MSD)
Field Duplicate (DUP) | Composite (C)
Trip Blank (TB) | Grab (G)

(4) Matrix Codes
Biosolid (SB) | Leachate (L) | Soil (SO) | Urine (U)
Concrete (C) | Misc Liquid (ML) | Solid Waste (SS) | Vegetation (V)
Drinking Water (DW) | Oil (O) | Storm Water (WS) | Waste Water (WW)
Fecal (FC) | Sediment (SD) | Surface Water (SW) | Water (W)
Filter (F) | Sludge (SL) | Tissue (T) | Wipe (P)
Groundwater (GW)

(6) Preservative Type
Ammonium Acetate (AM) | Nitric Acid (NI) | Sodium Thiosulfate (ST)
Ascorbic Acid (AA) | Sodium Hydroxide (SH) | Sulfuric Acid (SA)
Hexane (HX) | Sodium Bisulfate (SBA) | Trizma (TZ)
Hydrochloric Acid (HA) | Sodium Bisulfite SBI) | Zinc Acetate (ZA)
Methanol (ME)
Leave blank if no preservative is added.

(7) Radioactive *** *If yes, email rso@gel.com prior to shipment for approval. Isotopic data should be included in the email and with the sample shipment.* ***

(8) Known or Possible Hazards
Identify the "Source of the Sample" material
(e.g., NPDES discharge, waste material, stormwater, groundwater, Superfund Site etc.)

RCRA Metals
Arsenic (As) | Chromium (Cr) | Selenium (Se)
Barium (Ba) | Lead (Pb) | Silver (Ag)
Cadmium (Cd) | Mercury (Hg) | Misc. RCRA (MR)
Is this sample known or suspected to be RCRA Hazardous?
Yes [ ] No [ ]

Characteristic
Flammable/Ignitable (FL)
Corrosive (CO)
Reactive (RE)

TSCA Regulated
Polychlorinated biphenyls (PCB)

Listed Waste
Listed Waste (LW)
(F,K,P and U-listed wastes.)
Waste code(s):

Other
Other / Unknown (OT)
(i.e.: asbestos, beryllium, High low pH, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.

PO Number:
Project #: GPCC00105
GEL Quote #: GELP22-0819
GEL Project Manager: Abagail Martin

GEL Laboratories LLC
CHEMISTRY RADIOCHEMISTRY RADIOBIOASSAY SPECIALTY ANALYTICS
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Chain of Custody and Analytical Record
(1) COC Number :
Page: 3 of 3
GEL Work Order Number:

GEL Client Name: Kristen Jurinko, Kevin Stephenson
Phone Number:
Project/Site Name: Plant McManus CCR Groundwater Compliance March 2026
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: Natalie Piparo, Jay Siewert, Shannon Northen, Ori Kimhi (EnSafe)
Send Results To: knjurink@southernco.com; kmstephe@southernco.com; tgodwin@ensafe.com; npiparo@ensafe.com

Turn Around Time Requested.
Rush subject to surcharge.
Standard:
Rush (Specify):

(5) Sample Analysis Requested
Enter Analysis Requested like 8270 PAH or 6010 Metals

Enter total number of container(s) per test below the request on line that corresponds with the sample ID.

Sample ID (Each ID listed will be reported as a unique sample unless otherwise instructed. * For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	(2) Field Filtered	(3) QC Code	(4) Sample Matrix	Should this sample be considered: (7) Radioactive (Y or N)	(8) Known or possible Hazards	Total number of containers	Metals App. III (B, Ca)	Metals App. IV (Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Hg, Mo, Se, Tl)	Inorganics (Cl, F, SO4)	TDS	Radium 226/228	NI	NI	NI	< (6) Preservative Type
MCM-AP1-EB- 01	3/10/26	1725	EB	G	WQ			5	X	X	X	X	X				
MCM-AP1-EB- 02	03/11/26	1745	EB	G	WQ			5	X	X	X	X	X				

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	3/12/26	1258	1	3/12/26	1258
2			2		
3			3		

Select Deliverable: [ ] Results and QC Summary [ ]Calibration Summary [ ] Raw Data [ ] Standards Traceability
EDD Required? [ ] If yes, specify type.
Required Certification:
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:
Additional Comments: **Task Code: MCM-CCR-ASSMT-2026S1**
For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No Cooler Temp: 0,1,19,20,21

(1) Chain of Custody Number
Client Determined

(2) Field Filtered
For liquid matrices, indicate with a Y for yes the sample was field filtered.

(3) QC Codes
Equipment Blank (EB) | Matrix Spike (MS)
Field Reagent Blank | Matrix Spike Duplicate (MSD)
Field Duplicate (DUP) | Composite (C)
Trip Blank (TB) | Grab (G)

(4) Matrix Codes
Biosolid (SB) | Leachate (L) | Soil (SO) | Urine (U)
Concrete (C) | Misc Liquid (ML) | Solid Waste (SS) | Vegetation (V)
Drinking Water (DW) | Oil (O) | Storm Water (WS) | Waste Water (WW)
Fecal (FC) | Sediment (SD) | Surface Water (SW) | Water (W)
Filter (F) | Sludge (SL) | Tissue (T) | Wipe (P)
Groundwater (GW)

(6) Preservative Type
Ammonium Acetate (AM) | Nitric Acid (NI) | Sodium Thiosulfate (ST)
Ascorbic Acid (AA) | Sodium Hydroxide (SH) | Sulfuric Acid (SA)
Hexane (HX) | Sodium Bisulfate (SBA) | Trizma (TZ)
Hydrochloric Acid (HA) | Sodium Bisulfite SBI) | Zinc Acetate (ZA)
Methanol (ME)
Leave blank if no preservative is added.

(7) Radioactive *** If yes, email rso@gel.com prior to shipment for approval. Isotopic data should be included in the email and with the sample shipment.* ***

(8) Known or Possible Hazards
Identify the "Source of the Sample" material
(e.g., NPDES discharge, waste material, stormwater, groundwater, Superfund Site etc.)

RCRA Metals
Arsenic (As) | Chromium (Cr) | Selenium (Se)
Barium (Ba) | Lead (Pb) | Silver (Ag)
Cadmium (Cd) | Mercury (Hg) | Misc. RCRA (MR)

Is this sample known or suspected to be RCRA Hazardous?
Yes [ ] No [ ]

Characteristic
Flammable/Ignitable (FL)
Corrosive (CO)
Reactive (RE)

TSCA Regulated
Polychlorinated biphenyls (PCB)

Listed Waste
Listed Waste (LW)
(F,K,P and U-listed wastes.)
Waste code(s):

Other
Other / Unknown (OT)
(i.e.: asbestos, beryllium, High/low pH, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC | SDG/AR/COC/Work Order: 768186 | GEL PM: AM

Received By: CLM | Date Received at GEL: 3/12/26

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR5-23 Daily Calibration Performed? Y N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
cooler 1	21°	✓	cooler 6	19°	✓
2	20°	✓	7	20°	✓
3	0°				
4	1°				
5	1°				

Suspected Hazard Information	Yes	No
A) Shipped as a DOT Hazardous?		✓
B) Did the client designate the samples are to be received as radioactive?		✓
C) Did the RSO classify the samples as radioactive?		✓
D) Are there any sample hazards to document?		✓
E) Was a SDS received and reviewed by Lab Safety?		✓

*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.

Hazard Class Shipped: UN#:
If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___

COC notation or radioactive stickers on containers equal client designation.

Maximum Net Counts Observed* (Observed Counts - Area Background Counts): ___ CPM mR/Hr
Classified as: Rad 1 Rad 2 Rad 3

If yes, select Hazards below.
PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:

Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: RCHEM *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Missing Container (provide details) Other (describe) Received 2 extra containers for analysis.
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:
10.) Total Alk for ID's MCM-API-FD-01 and MCM-API-FD-02. All metals containers for 768186 shared with 768188 and 768190 except samples 17, 19, & 21, 18, 20, & 22.

PM (or PMA) review: Initials ___ Date 3/13/26
☐ Continuation Form Required when selected

GL-CHL-SR-001 Rev 8

List of current GEL Certifications as of 08 April 2026

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2025022
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approval	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2026-139
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of LA	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122026-50
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

March 26, 2026

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance
Work Order: 768190

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 12, 2026. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
768190001	MCM-PT-01	Ground Water	03/10/26 16:32	03/12/26 12:58
768190002	MCM-PT-02	Ground Water	03/12/26 09:16	03/12/26 12:58
768190003	MCM-PT-03	Ground Water	03/11/26 11:31	03/12/26 12:58
768190004	MCM-DR-02	Ground Water	03/12/26 09:11	03/12/26 12:58
768190005	MCM-DR-03	Ground Water	03/11/26 10:29	03/12/26 12:58
768190006	MCM-INW-01	Ground Water	03/11/26 15:09	03/12/26 12:58
768190007	MCM-AP1-FD-01	Ground Water	03/11/26 12:00	03/12/26 12:58
768190008	MCM-AP1-FB-01	Ground Water	03/11/26 18:03	03/12/26 12:58
768190009	MCM-AP1-EB-01	Ground Water	03/11/26 17:58	03/12/26 12:58

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

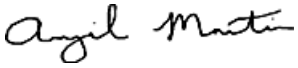
Method	Run Date ID
SW846 3005A	13-MAR-2026

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	25-MAR-2026

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4705.

Sincerely,



Abagail Martin
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 768190 GEL Work Order: 768190

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Abagail Martin.

Reviewed by _____

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-01	Project:	GPCC00105
Sample ID:	768190001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	10-MAR-26 16:32		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As, Fe) "As Received"												
Iron		0.100	0.0330	0.100	mg/L	1.00	1	PRB	03/25/26	1413	2961033	1
Arsenic	J	0.0219	0.0100	0.0250	mg/L	1.00	5	PRB	03/25/26	1634	2961033	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961032

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-02	Project:	GPCC00105
Sample ID:	768190002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-MAR-26 09:16		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As, Fe) "As Received"												
Arsenic		0.0133	0.00200	0.00500	mg/L	1.00	1	PRB	03/25/26	1422	2961033	1
Iron		0.463	0.0330	0.100	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961032

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-PT-03	Project:	GPCC00105
Sample ID:	768190003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-MAR-26 11:31		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As, Fe) "As Received"												
Arsenic		0.0923	0.00200	0.00500	mg/L	1.00	1	PRB	03/25/26	1423	2961033	1
Iron		0.329	0.0330	0.100	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961032

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-02	Project:	GPCC00105
Sample ID:	768190004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	12-MAR-26 09:11		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As, Fe) "As Received"												
Arsenic		0.143	0.00200	0.00500	mg/L	1.00	1	PRB	03/25/26	1425	2961033	1
Iron		0.148	0.0330	0.100	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961032

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-DR-03	Project:	GPCC00105
Sample ID:	768190005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-MAR-26 10:29		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As, Fe) "As Received"												
Arsenic		0.00653	0.00200	0.00500	mg/L	1.00	1	PRB	03/25/26	1426	2961033	1
Iron		2.22	0.0330	0.100	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961032

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-INW-01	Project:	GPCC00105
Sample ID:	768190006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-MAR-26 15:09		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As, Fe) "As Received"												
Iron		0.402	0.0330	0.100	mg/L	1.00	1	PRB	03/25/26	1434	2961033	1
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	PRB	03/25/26	1643	2961033	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961032

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	
2	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FD-01	Project:	GPCC00105
Sample ID:	768190007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	11-MAR-26 12:00		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As, Fe) "As Received"												
Arsenic		0.0937	0.00200	0.00500	mg/L	1.00	1	PRB	03/25/26	1438	2961033	1
Iron		0.328	0.0330	0.100	mg/L	1.00	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961032

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-FB-01	Project:	GPCC00105
Sample ID:	768190008	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	11-MAR-26 18:03		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As, Fe) "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	PRB	03/25/26	1645	2961033	1
Iron	U	ND	0.165	0.500	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961032

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: March 26, 2026

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater Compliance

Client Sample ID:	MCM-AP1-EB-01	Project:	GPCC00105
Sample ID:	768190009	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	11-MAR-26 17:58		
Receive Date:	12-MAR-26		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As, Fe) "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	PRB	03/25/26	1646	2961033	1
Iron	U	ND	0.165	0.500	mg/L	1.00	5					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	ES3	03/13/26	0800	2961032

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3005A/6020B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: March 26, 2026

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **768190**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2961033												
QC1206406510 LCS												
Arsenic	0.0500				0.0501	mg/L		100	(80%-120%)	PRB	03/25/26	16:33
Iron	2.00				2.00	mg/L		99.9	(80%-120%)			
QC1206406509 MB												
Arsenic				U	ND	mg/L					03/25/26	16:32
Iron				U	ND	mg/L						
QC1206406511 768190001 MS												
Arsenic	0.0500	J	0.0219		0.0720	mg/L		100	(75%-125%)		03/25/26	16:36
Iron	2.00		0.100		1.76	mg/L		83.1	(75%-125%)		03/25/26	14:14
QC1206406512 768190001 MSD												
Arsenic	0.0500	J	0.0219		0.0714	mg/L	0.76	99.1	(0%-20%)		03/25/26	16:38
Iron	2.00		0.100		1.76	mg/L	0.308	82.8	(0%-20%)		03/25/26	14:15
QC1206406514 768190001 SDILT												
Arsenic		J	21.9	U	ND	ug/L	N/A		(0%-20%)		03/25/26	16:41
Iron			100	U	ND	ug/L	N/A		(0%-20%)		03/25/26	14:18

Notes:

The Qualifiers in this report are defined as follows:

U U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

QC Summary

Workorder: **768190**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

J J Value is estimated

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals
Technical Case Narrative
Georgia Power Company
SDG #: 768190

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 37
Analytical Batch: 2961033

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2961032

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
768190001	MCM-PT-01
768190002	MCM-PT-02
768190003	MCM-PT-03
768190004	MCM-DR-02
768190005	MCM-DR-03
768190006	MCM-INW-01
768190007	MCM-AP1-FD-01
768190008	MCM-AP1-FB-01
768190009	MCM-AP1-EB-01
1206406509	Method Blank (MB)**ICP-MS Batch 2961033**
1206406510	Laboratory Control Sample (LCS)
1206406514	768190001(MCM-PT-01L) Serial Dilution (SD)
1206406511	768190001(MCM-PT-01S) Matrix Spike (MS)
1206406512	768190001(MCM-PT-01SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Per the SOP, samples 768190001 (MCM-PT-01), 768190006 (MCM-INW-01), 768190008 (MCM-AP1-FB-01) and 768190009 (MCM-AP1-EB-01) were diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	768190			
	001	**006**	**008**	**009**
Arsenic	5X	5X	5X	5X
Iron			5X	5X

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

PO Number:
Project #: GPCC00105
GEL Quote #: GELP22-0819
GEL Project Manager: Abagail Martin

GEL Laboratories LLC

CHEMISTRY RADIOCHEMISTRY RADIOBIOASSAY SPECIALTY ANALYTICS

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Chain of Custody and Analytical Record

(1) COC Number:

Page: 1 of 1

GEL Work Order Number: 768190

GEL Client Name: Kristen Jurinko, Kevin Stephenson

Phone Number:

Project/Site Name: Plant McManus Interim Performace Sampling March 2026

Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308

Collected By: Natalie Piparo, Jay Siewert, Shannon Northen, Ori Kimhi (EnSafe)

Send Results To: knjurink@southernco.com; kmstephe@southernco.com; tgodwin@ensafe.com; npiparo@ensafe.com

Turn Around Time Requested. *Rush subject to surcharge.*

Standard:

Rush (Specify):

(5) Sample Analysis Requested *Enter Analysis Requested like 8270 PAH or 6010 Metals*

Enter total number of container(s) per test below the request on line that corresponds with the sample ID.

Sample ID Each ID listed will be reported as a unique sample unless otherwise instructed. * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	(2) Field Filtered	(3) QC Code	(4) Sample Matrix	Should this sample be considered: (7) Radioactive (Y or N)	(8) Known or possible Hazards	Total number of containers	Metals (As, Fe)	NI	< (6) Preservative Type
MCM-PT-01	3/10/26	1632	N	G	WG			1	X		
MCM-PT-02	3/12/26	0916	N	G	WG			1	X		
MCM-PT-03	3/11/26	1131	N	G	WG			1	X		
MCM-DR-02	3/12/26	0911	N	G	WG			1	X		
MCM-DR-03	3/11/26	1029	N	G	WG			1	X		
MCM-INW-01	3/11/26	1509	N	G	WG			1	X		
MCM-AP1-FD-01	3/11/26	—	FD	G	WG			1	X		
MCM-AP1-FB-01	3/11/26	1803	FB	G	WQ			1	X		
MCM-AP1-EB-01	3/11/26	1758	EB	G	WQ			1	X		

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] EnSafe	3/12/26	1258	1 [signature]	3/12/26	1258
2				2		
3				3		

For Lab Receiving Use Only: Custody Seal Intact? [ ] Yes [ ] No *Cooler Temp:* 0.1, 19.20.21

Select Deliverable: [ ] Results and QC Summary [ ] Calibration Summary [ ] Raw Data [ ] Standards Traceability

EDD Required? [ ] If yes, specify type.

Required Certification:

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

Additional Comments: **Task Code: MCM-CCR-CA-20260309**

For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

(1) Chain of Custody Number
Client Determined

(2) Field Filtered
For liquid matrices, indicate with a Y for yes the sample was field filtered.

(3) QC Codes
Equipment Blank (EB) | Matrix Spike (MS)
Field Reagent Blank | Matrix Spike Duplicate (MSD)
Field Duplicate (DUP) | Composite (C)
Trip Blank (TB) | Grab (G)

(4) Matrix Codes

Biosolid (SB)	Leachate (L)	Soil (SO)	Urine (U)
Concrete (C)	Misc Liquid (ML)	Solid Waste (SS)	Vegetation (V)
Drinking Water (DW)	Oil (O)	Storm Water (WS)	Waste Water (WW)
Fecal (FC)	Sediment (SD)	Surface Water (SW)	Water (W)
Filter (F)	Sludge (SL)	Tissue (T)	Wipe (P)
Groundwater (GW)			

(6) Preservative Type

Ammonium Acetate (AM)	Nitric Acid (NI)	Sodium Thiosulfate (ST)
Ascorbic Acid (AA)	Sodium Hydroxide (SH)	Sulfuric Acid (SA)
Hexane (HX)	Sodium Bisulfate (SBA)	Trizma (TZ)
Hydrochloric Acid (HA)	Sodium Bisulfite SBI)	Zinc Acetate (ZA)
Methanol (ME)		

Leave blank if no preservative is added.

(7) Radioactive **** If yes, email rso@gel.com prior to shipment for approval. Isotopic data should be included in the email and with the sample shipment. ****

(8) Known or Possible Hazards
Identify the "Source of the Sample" material
(e.g., NPDES discharge, waste material, stormwater, groundwater, Superfund Site etc.)

RCRA Metals
Arsenic (As) | Chromium (Cr) | Selenium (Se)
Barium (Ba) | Lead (Pb) | Silver (Ag)
Cadmium (Cd) | Mercury (Hg) | Misc. RCRA (MR)

Is this sample known or suspected to be RCRA Hazardous?
Yes [ ] No [ ]

Characteristic
Flammable/Ignitable (FL)
Corrosive (CO)
Reactive (RE)

TSCA Regulated
Polychlorinated biphenyls (PCB)

Listed Waste
Listed Waste (LW)
(F,K,P and U-listed wastes.)
Waste code(s):

Other
Other / Unknown (OT)
(i.e.: asbestos, beryllium, High/low pH, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns.

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC | SDG/AR/COC/Work Order: 768190 | GEL PM: AM

Received By: CLM | Date Received at GEL: 3/12/26

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier Client Other:

IR Temp gun # IR5-23 Daily Calibration Performed? Y N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (le radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (le radiochem only).
cooler 1	21°	✓	Cooler 6	19°	✓
2	20°	✓	7	20°	✓
3	0°				
4	1°				
5	1°				

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 (CPM) mR/Hr. Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: (Wet Ice) Ice Packs Dry ice (None) Other: RCHEM. *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer). Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No). Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?			✓	Circle Applicable: No container count on COC Missing Container (provide details) Other (describe) Received 2 extra containers for analysis.
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:
10.) Total Alk for ID's MCM-API-FD-01 and MCM-API-FD-02. All metals containers for 768186 shared with 768188 and 768190 except Samples 17, 19, & 21, 18, 20, & 22.

PM (or PMA) review: Initials [illegible] Date 3/13/26

☐ Continuation Form Required when selected

GL-CHL-SR-001 Rev 8

List of current GEL Certifications as of 26 March 2026

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2025022
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approval	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2026-139
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of LA	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122026-50
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia (St) 30308

Generated 3/13/2026 2:53:00 PM

JOB DESCRIPTION

Plant McManus Interim Performance - March 2026

JOB NUMBER

680-269989-1

Eurofins Savannah
7001 Chatham Center Drive
Suite 600
Savannah GA 31405

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 Drinking Water and Wastewater Southeast, LLC Project Manager.

Authorization

Generated
3/13/2026 2:53:00 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Sample Summary

Client: Southern Company
Project/Site: Plant McManus Interim Performance - March 2026

Job ID: 680-269989-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
680-269989-1	MCM-MCM-05	Water	03/10/26 11:48	03/12/26 12:05	Georgia (St)
680-269989-2	MCM-MCM-06	Water	03/10/26 17:02	03/12/26 12:05	Georgia (St)
680-269989-3	MCM-PT-03	Water	03/11/26 11:31	03/12/26 12:05	Georgia (St)
680-269989-4	MCM-DR-02	Water	03/12/26 09:11	03/12/26 12:05	Georgia (St)
680-269989-5	MCM-DR-03	Water	03/11/26 10:29	03/12/26 12:05	Georgia (St)
680-269989-6	MCM-INW-01	Water	03/11/26 15:09	03/12/26 12:05	Georgia (St)
680-269989-7	MCM-AP1-FD-01	Water	03/11/26 00:00	03/12/26 12:05	Georgia (St)
680-269989-8	MCM-AP1-FB-01	Water	03/11/26 18:03	03/12/26 12:05	Georgia (St)
680-269989-9	MCM-AP1-EB-01	Water	03/11/26 17:58	03/12/26 12:05	Georgia (St)

Definitions/Glossary

Client: Southern Company
Job ID: 680-269989-1
Project/Site: Plant McManus Interim Performance - March 202

Qualifiers

General Chemistry

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

Job ID: 680-269989-1 Eurofins Savannah

Job Narrative
680-269989-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 3/12/2026 12:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Southern Company
Job ID: 680-269989-1
Project/Site: Plant McManus Interim Performance - March 202

Client Sample ID: MCM-MCM-05
Lab Sample ID: 680-269989-1
Date Collected: 03/10/26 11:48
Matrix: Water
Date Received: 03/12/26 12:05

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	56		0.81	0.81	mg/L			03/13/26 09:13	1

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-269989-2
Date Collected: 03/10/26 17:02
Matrix: Water
Date Received: 03/12/26 12:05

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	21		0.81	0.81	mg/L			03/13/26 09:13	1

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-269989-3
Date Collected: 03/11/26 11:31
Matrix: Water
Date Received: 03/12/26 12:05

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	25		0.81	0.81	mg/L			03/13/26 09:13	1

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-269989-4
Date Collected: 03/12/26 09:11
Matrix: Water
Date Received: 03/12/26 12:05

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	38		0.81	0.81	mg/L			03/13/26 09:13	1

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-269989-5
Date Collected: 03/11/26 10:29
Matrix: Water
Date Received: 03/12/26 12:05

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	13		0.81	0.81	mg/L			03/13/26 09:13	1

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-269989-6
Date Collected: 03/11/26 15:09
Matrix: Water
Date Received: 03/12/26 12:05

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	12		0.81	0.81	mg/L			03/13/26 09:13	1

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-269989-7
Date Collected: 03/11/26 00:00
Matrix: Water
Date Received: 03/12/26 12:05

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	26		0.81	0.81	mg/L			03/13/26 09:13	1

Client Sample Results

Client: Southern Company
Job ID: 680-269989-1
Project/Site: Plant McManus Interim Performance - March 202

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-269989-8
Date Collected: 03/11/26 18:03
Matrix: Water
Date Received: 03/12/26 12:05

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			03/13/26 09:13	1

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-269989-9
Date Collected: 03/11/26 17:58
Matrix: Water
Date Received: 03/12/26 12:05

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SM 4500 S2 F-2011)	<0.81		0.81	0.81	mg/L			03/13/26 09:13	1

Method Summary

Client: Southern Company
Project/Site: Plant McManus Interim Performance - March 202

Job ID: 680-269989-1

Method	Method Description	Protocol	Laboratory
4500 S2 F-2011	Sulfide, Total	SM	EET SAV

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET SAV = Eurofins Savannah, 7001 Chatham Center Drive, Suite 600, Savannah, GA 31405, TEL (912)354-7858

Method: 4500 S2 F-2011 - Sulfide, Total

Lab Sample ID: MB 680-888941/1
Matrix: Water
Analysis Batch: 888941

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.0		1.0	1.0	mg/L			03/13/26 09:13	1

Lab Sample ID: LCS 680-888941/2
Matrix: Water
Analysis Batch: 888941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			10.0	9.02		mg/L		90	75 - 125		

Lab Sample ID: LCSD 680-888941/3
Matrix: Water
Analysis Batch: 888941

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
Sulfide			10.0	9.00		mg/L		90	75 - 125	0	30

Lab Sample ID: 680-269989-1 MS
Matrix: Water
Analysis Batch: 888941

Client Sample ID: MCM-MCM-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	56		6.50	62.7	4	mg/L		107	75 - 125		

Lab Sample ID: 680-269989-1 MSD
Matrix: Water
Analysis Batch: 888941

Client Sample ID: MCM-MCM-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	56		6.50	62.7	4	mg/L		107	75 - 125	0	30

Lab Sample ID: 680-269957-B-1 DU
Matrix: Water
Analysis Batch: 888941

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Sulfide	<0.81			<0.81		mg/L				NC	30

QC Association Summary

Client: Southern Company
Project/Site: Plant McManus Interim Performance - March 202(

Job ID: 680-269989-1

General Chemistry

Analysis Batch: 888941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-269989-1	MCM-MCM-05	Total/NA	Water	4500 S2 F-2011	
680-269989-2	MCM-MCM-06	Total/NA	Water	4500 S2 F-2011	
680-269989-3	MCM-PT-03	Total/NA	Water	4500 S2 F-2011	
680-269989-4	MCM-DR-02	Total/NA	Water	4500 S2 F-2011	
680-269989-5	MCM-DR-03	Total/NA	Water	4500 S2 F-2011	
680-269989-6	MCM-INW-01	Total/NA	Water	4500 S2 F-2011	
680-269989-7	MCM-AP1-FD-01	Total/NA	Water	4500 S2 F-2011	
680-269989-8	MCM-AP1-FB-01	Total/NA	Water	4500 S2 F-2011	
680-269989-9	MCM-AP1-EB-01	Total/NA	Water	4500 S2 F-2011	
MB 680-888941/1	Method Blank	Total/NA	Water	4500 S2 F-2011	
LCS 680-888941/2	Lab Control Sample	Total/NA	Water	4500 S2 F-2011	
LCSD 680-888941/3	Lab Control Sample Dup	Total/NA	Water	4500 S2 F-2011	
680-269989-1 MS	MCM-MCM-05	Total/NA	Water	4500 S2 F-2011	
680-269989-1 MSD	MCM-MCM-05	Total/NA	Water	4500 S2 F-2011	
680-269957-B-1 DU	Duplicate	Total/NA	Water	4500 S2 F-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-269989-1
Project/Site: Plant McManus Interim Performance - March 202

Client Sample ID: MCM-MCM-05
Lab Sample ID: 680-269989-1
Date Collected: 03/10/26 11:48
Matrix: Water
Date Received: 03/12/26 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	888941	03/13/26 09:13	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-MCM-06
Lab Sample ID: 680-269989-2
Date Collected: 03/10/26 17:02
Matrix: Water
Date Received: 03/12/26 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	888941	03/13/26 09:13	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-PT-03
Lab Sample ID: 680-269989-3
Date Collected: 03/11/26 11:31
Matrix: Water
Date Received: 03/12/26 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	888941	03/13/26 09:13	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-02
Lab Sample ID: 680-269989-4
Date Collected: 03/12/26 09:11
Matrix: Water
Date Received: 03/12/26 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	888941	03/13/26 09:13	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-DR-03
Lab Sample ID: 680-269989-5
Date Collected: 03/11/26 10:29
Matrix: Water
Date Received: 03/12/26 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	888941	03/13/26 09:13	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-INW-01
Lab Sample ID: 680-269989-6
Date Collected: 03/11/26 15:09
Matrix: Water
Date Received: 03/12/26 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	888941	03/13/26 09:13	NVF	EET SAV
	Instrument ID: NoEquip									

Lab Chronicle

Client: Southern Company
Job ID: 680-269989-1
Project/Site: Plant McManus Interim Performance - March 202

Client Sample ID: MCM-AP1-FD-01
Lab Sample ID: 680-269989-7
Date Collected: 03/11/26 00:00
Matrix: Water
Date Received: 03/12/26 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	888941	03/13/26 09:13	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-FB-01
Lab Sample ID: 680-269989-8
Date Collected: 03/11/26 18:03
Matrix: Water
Date Received: 03/12/26 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	888941	03/13/26 09:13	NVF	EET SAV
	Instrument ID: NoEquip									

Client Sample ID: MCM-AP1-EB-01
Lab Sample ID: 680-269989-9
Date Collected: 03/11/26 17:58
Matrix: Water
Date Received: 03/12/26 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	4500 S2 F-2011		1	310 mL	310 mL	888941	03/13/26 09:13	NVF	EET SAV
	Instrument ID: NoEquip									

Laboratory References:
EET SAV = Eurofins Savannah, 7001 Chatham Center Drive, Suite 600, Savannah, GA 31405, TEL (912)354-7858

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-269989-1
Project/Site: Plant McManus Interim Performance - March 202

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-26
Georgia	State	E87052	06-30-26

Eurofins Savannah
7001 Chatham Center Drive Suite 600
Savannah GA 31405
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins

Client Information	Sampler: Natalie Piparo, Jay Siewert, Shannon Northen, Ori Kimhi (EnSafe)	Lab PM: David Fuller / Phone. 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko Kevin Stephenson	Phone:	E-Mail: David Fuller@et.eurofinsus com	State of Origin: GA	Page: Page 1 of 1
Company: Southern Company	PWSID:	Analysis Requested		Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested			
City: Atlanta	TAT Requested (days): Standard			
State Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO COM, KMSTEPHE@SOUTHERNCO COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Interim Performance Sampling March 2026	Project #:			
Site:	SSOW#:			

680-269989 Chain of Custody

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, Y - Trizma, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4500_S2_F - Sulfide (FILL COMPLETELY)	Total Num	Task_Code MCM-CCR-CA-20260309 / Special Instructions/Note
			Preservation Code				CB		
MCM-MCM-05	3/10/26	1148	G	WG	N		X	2	
MCM-MCM-06	3/10/26	1702	G	WG	N		X	2	
MCM-PT-03	3/11/26	1131	G	WG	N		X	2	
MCM-DR-02	3/12/26	0911	G	WG	N		X	2	
MCM-DR-03	3/11/26	1029	G	WG	N		X	2	
MCM-INW-01	3/11/26	1509	G	WG	N		X	2	
MCM-AP1-FD- 01	3/11/26	—	G	WG	N		X	2	
MCM-AP1-FB- 01	3/11/26	1803	G	WQ	N		X	2	
MCM-AP1-EB- 01	3/11/26	1758	G	WQ	N		X	2	

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
Ori Kimhi	3/12/26 1205	EnSafe		3/12/26 1205	Eurofins
Relinquished by:	Date/Time:	Company	Received by:	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: 0.1/0.1

Ver: 01/16/2019

3/13/2026

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-269989-1

Login Number: 269989
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	

VALIDATION SUMMARY

This report summarizes data validation findings for the September 2025 sampling event at the Georgia Power — McManus Fossil Plant facility in Brunswick, Georgia. Data were validated independently from the laboratory to assess data quality. Samples discussed in this report were collected between September 9 and 11, 2025. Samples were analyzed by GEL Laboratories, LLC in Charleston, South Carolina. EnSafe Inc. reviewed the analytical data discussed in this report.

The quality assurance criteria used to assess all data were established by the analytical methods consistent with the measurement performance criteria provided in the relevant standards in the following guidance documents:

- National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006 (United States Environmental Protection Agency, November 2020)
- Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma — Atomic Emission Spectroscopy and Inductively Coupled Plasma — Mass Spectroscopy (United States Environmental Protection Agency Region IV, September 2011)
- Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Cold Vapor Atomic Absorption (United States Environmental Protection Agency Region IV, September 2011).

United States Environmental Protection Agency Stage 2A electronic and manual data validation, consisting of analytical results review and quality control summaries, was performed on samples from sample delivery groups 742786 and 742788. Table A-1 in Attachment A provides an overview of all samples collected.

The analytes were reviewed for the following parameters, as applicable to the method:

* Data completeness
* Sample receipt and preservation
* Holding times
* Laboratory control sample/laboratory control sample duplicate
* Matrix spike/matrix spike duplicate
* Laboratory duplicates
* Laboratory blanks
* Field blanks (equipment and field)
* Field duplicates

When the quality control parameters did not fall within the specific method or data review guidelines, the data validator qualified the corresponding compounds. Acceptable data parameters for which all criteria were met or no qualification was performed, as indicated above with an asterisk (*), are not discussed further.

Sample Dilutions

Table 1 summarizes samples that were reported from dilutions. The sample results and reporting limits were adjusted accordingly.

Table 1
Sample Dilutions

SDG	Method	Sample ID	Analyte	Dilution Factor
742786	EPA 300.0	MCM-AP1-FD-01-20250909	Chloride	1000
742786	EPA 300.0	MCM-AP1-FD-01-20250909	Fluoride	5
742786	EPA 300.0	MCM-AP1-FD-01-20250909	Sulfate	50
742786	EPA 6020B	MCM-AP1-FD-01-20250909	Arsenic Beryllium Boron Calcium Lithium Selenium	5
742786	EPA 300.0	MCM-AP1-FD-02-20250910	Sulfate	5
742786	EPA 300.0	MCM-DPZ-02-20250910	Chloride	1000
742786	EPA 300.0	MCM-DPZ-02-20250910	Fluoride	5
742786	EPA 300.0	MCM-DPZ-02-20250910	Sulfate	50
742786	EPA 6020B	MCM-DPZ-02-20250910	Arsenic Beryllium Calcium Lithium Selenium	5
742786	EPA 6020B	MCM-DPZ-02-20250910	Boron	10
742786	EPA 300.0	MCM-MCM-01-20250909	Chloride Sulfate	5
742786	EPA 300.0	MCM-MCM-02-20250910	Chloride Sulfate	5
742786	EPA 300.0	MCM-MCM-04-20250910	Chloride Sulfate	5
742786	EPA 300.0	MCM-MCM-05-20250909	Chloride	1000
742786	EPA 300.0	MCM-MCM-05-20250909	Fluoride	5
742786	EPA 300.0	MCM-MCM-05-20250909	Sulfate	100
742786	EPA 6020B	MCM-MCM-05-20250909	Arsenic Beryllium Boron Calcium Lithium Selenium	5
742786	EPA 300.0	MCM-MCM-06-20250909	Chloride	2000
742786	EPA 300.0	MCM-MCM-06-20250909	Fluoride	5
742786	EPA 300.0	MCM-MCM-06-20250909	Sulfate	100

Table 1
Sample Dilutions

SDG	Method	Sample ID	Analyte	Dilution Factor
742786	EPA 6020B	MCM-MCM-06-20250909	Arsenic Beryllium Boron Calcium Lithium Selenium	5
742786	EPA 300.0	MCM-MCM-07-20250911	Chloride	1000
742786	EPA 300.0	MCM-MCM-07-20250911	Fluoride	5
742786	EPA 300.0	MCM-MCM-07-20250911	Sulfate	50
742786	EPA 6020B	MCM-MCM-07-20250911	Arsenic Boron Calcium Selenium	5
742786	EPA 300.0	MCM-MCM-11-20250910	Chloride	20
742786	EPA 300.0	MCM-MCM-11-20250910	Sulfate	5
742786	EPA 300.0	MCM-MCM-12-20250909	Chloride	50
742786	EPA 6020B	MCM-MCM-12-20250909	Boron	10
742786	EPA 300.0	MCM-MCM-14-20250909	Chloride	1000
742786	EPA 300.0	MCM-MCM-14-20250909	Fluoride	5
742786	EPA 300.0	MCM-MCM-14-20250909	Sulfate	100
742786	EPA 6020B	MCM-MCM-14-20250909	Arsenic Beryllium Boron Calcium Lithium Selenium	5
742786	EPA 300.0	MCM-MCM-15-20250909	Chloride Sulfate	5
742786	EPA 300.0	MCM-MCM-16-20250910	Chloride Sulfate	5
742786	EPA 300.0	MCM-MCM-17-20250911	Chloride	1000
742786	EPA 300.0	MCM-MCM-17-20250911	Fluoride	5
742786	EPA 300.0	MCM-MCM-17-20250911	Sulfate	50
742786	EPA 6020B	MCM-MCM-17-20250911	Arsenic Beryllium Lithium Selenium	5
742786	EPA 6020B	MCM-MCM-17-20250911	Boron Calcium	20
742786	EPA 300.0	MCM-MCM-18-20250909	Chloride	200
742786	EPA 300.0	MCM-MCM-18-20250909	Fluoride	5
742786	EPA 300.0	MCM-MCM-18-20250909	Sulfate	10
742786	EPA 300.0	MCM-MCM-19-20250909	Chloride	1000
742786	EPA 300.0	MCM-MCM-19-20250909	Fluoride	5
742786	EPA 300.0	MCM-MCM-19-20250909	Sulfate	100

Table 1 Sample Dilutions				
SDG	**Method**	**Sample ID**	**Analyte**	**Dilution Factor**
742786	EPA 6020B	MCM-MCM-19-20250909	Arsenic Beryllium Boron Calcium Lithium Selenium	5
742786	EPA 300.0	MCM-MCM-20-20250909	Chloride	1000
742786	EPA 300.0	MCM-MCM-20-20250909	Fluoride	5
742786	EPA 300.0	MCM-MCM-20-20250909	Sulfate	50
742786	EPA 6020B	MCM-MCM-20-20250909	Arsenic Beryllium Boron Lithium Selenium	5

Notes:
SDG = sample delivery group
ID = identification
EPA = Environmental Protection Agency

Overall Assessment

The data from the September 2025 sampling event were reviewed independently from the laboratory to assess data quality. All analytes detected at concentrations less than the quantitation limit but greater than the method detection limit were qualified by the laboratory as estimated (J). This J-qualifier was retained during data validation. No additional qualifiers were applied during data validation.

Attachment A
Sample and Analysis Summary

Table A-1 Sample and Analysis Summary							
SDG	**Sample ID**	**Sample Date**	**Sample Type**	**EPA 300.0**	**EPA 6020B**	**EPA 7470A**	**SM 2540C**
742786	MCM-AP1-EB-01-20250909	9/9/2025	Equipment Blank	X	X	X	X
742786	MCM-AP1-EB-02-20250910	9/10/2025	Equipment Blank	X	X	X	X
742786	MCM-AP1-FB-01-20250909	9/9/2025	Field Blank	X	X	X	X
742786	MCM-AP1-FB-02-20250910	9/10/2025	Field Blank	X	X	X	X
742786	MCM-AP1-FD-01-20250909	9/9/2025	Duplicate of MCM-MCM-14-20250909	X	X	X	X
742786	MCM-AP1-FD-02-20250910	9/10/2025	Duplicate of MCM-MCM-16-20250910	X	X	X	X
742786	MCM-DPZ-02-20250910	9/10/2025	Groundwater	X	X	X	X
742786	MCM-MCM-01-20250909	9/9/2025	Groundwater	X	X	X	X
742786	MCM-MCM-02-20250910	9/10/2025	Groundwater	X	X	X	X
742786	MCM-MCM-04-20250910	9/10/2025	Groundwater	X	X	X	X
742786/742788	MCM-MCM-05-20250909	9/9/2025	Groundwater	X	X	X	X
742786/742788	MCM-MCM-06-20250909	9/9/2025	Groundwater	X	X	X	X
742786	MCM-MCM-07-20250911	9/11/2025	Groundwater	X	X	X	X
742786	MCM-MCM-11-20250910	9/10/2025	Groundwater	X	X	X	X
742786	MCM-MCM-12-20250909	9/9/2025	Groundwater	X	X	X	X
742786	MCM-MCM-14-20250909	9/9/2025	Groundwater	X	X	X	X
742786	MCM-MCM-15-20250909	9/9/2025	Groundwater	X	X	X	X
742786	MCM-MCM-16-20250910	9/10/2025	Groundwater	X	X	X	X
742786	MCM-MCM-17-20250911	9/11/2025	Groundwater	X	X	X	X
742786	MCM-MCM-18-20250909	9/9/2025	Groundwater	X	X	X	X
742786	MCM-MCM-19-20250909	9/9/2025	Groundwater	X	X	X	X
742786	MCM-MCM-20-20250909	9/9/2025	Groundwater	X	X	X	X

Notes:

SDG = sample delivery group
ID = identification
EPA = Environmental Protection Agency
300.0 = anions via EPA Method 300.0
6020B = metals via EPA Method 6020B
7470A = mercury via EPA Method 7470A
SM 2540C = total dissolved solids via Standard Method 2540C
X = Sample was analyzed for the method indicated in the column header.

VALIDATION SUMMARY

This report summarizes data validation findings for the September 2025 sampling event at the Georgia Power — McManus Fossil Plant facility in Brunswick, Georgia. Data was validated independently from the laboratory to assess data quality. Samples discussed in this report were collected between September 9 and 11, 2025. Samples were analyzed by GEL Laboratories, LLC in Charleston, South Carolina. EnSafe Inc. reviewed the analytical data discussed in this report.

The quality assurance criteria used to assess all data were established by the analytical methods consistent with the measurement performance criteria provided in the relevant standards in the following guidance documents:

- National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006 (United States Environmental Protection Agency, November 2020)

- Multi-Agency Radiological Laboratory Analytical Protocols Manual (United States Environmental Protection Agency, July 2004)

United States Environmental Protection Agency Stage 2A electronic and manual data validation, consisting of analytical results review and quality control summaries, was performed on samples from sample delivery group 742787. Table A-1 in Attachment A provides a summary of all samples collected.

The analytes were reviewed for the following parameters, as applicable to the method:

* Data completeness
* Sample receipt and preservation
* Holding times
* Laboratory control sample/laboratory control sample duplicate
* Tracers
* Matrix spike
* Laboratory duplicates
* Laboratory blanks
  Field blanks (equipment and field)
* Field duplicates

When the quality control parameters did not fall within the specific method or data review guidelines, the data validator qualified the corresponding compounds. Acceptable data parameters for which all criteria were met or no qualification was performed, as indicated above with an asterisk (*), are not discussed further.

Field Blanks

Field and equipment blanks were free from contamination, with the exceptions noted in Table 1 and the resulting qualifications.

Table 1
Field Blank Outliers

SDG	Method	Blank ID	Analyte	Blank Result (pCi/L)	Samples Qualified	Sample Result (pCi/L)	Sample RL (pCi/L)	Qualifier	RC
742787	CALC	MCM-AP1-EB-02-20250910	Radium-226+228 Sum	2	MCM-AP1-FD-02-20250910 MCM-MCM-04-20250910 MCM-MCM-11-20250910	2.66 2.28 2.95	3	U	BEL
742787	CALC	MCM-AP1-FB-01-20250909	Radium-226+228 Sum	2.61	MCM-MCM-01-20250909 MCM-MCM-12-20250909 MCM-MCM-15-20250909	2.27 2.52 2.57	3	U	BF1
742787	EPA 903.1	MCM-AP1-FB-01-20250909	Radium-226	1.2	MCM-MCM-15-20250909	0.612	1	U	BF1
742787	EPA 903.1	MCM-AP1-FB-01-20250909	Radium-226	1.2	MCM-AP1-FD-01-20250909 MCM-MCM-01-20250909 MCM-MCM-05-20250909 MCM-MCM-12-20250909 MCM-MCM-14-20250909 MCM-MCM-18-20250909 MCM-MCM-20-20250909	3.25 1.40 3.58 1.08 2.92 2.39 2.55	1	J+	BF2
742787	EPA 903.1	MCM-AP1-FB-02-20250910	Radium-226	0.39	MCM-AP1-FD-02-20250910	0.771	1	U	BF1

Notes:

SDG	=	sample delivery group
ID	=	identification
pCi/L	=	picocuries per liter
RL	=	reporting limit
RC	=	reason code
CALC	=	combined radium-226 and 228 by calculation
EPA	=	Environmental Protection Agency
U	=	The result was qualified as nondetect at the reporting limit.
J+	=	Detected result was qualified as estimated and may be biased high.
BEL	=	equipment blank contamination less than the reporting limit
BF1	=	field blank contamination less than the reporting limit
BF2	=	field blank contamination greater than or equal to the reporting limit

Overall Assessment

The data from the September 2025 sampling event were reviewed independently from the laboratory to assess data quality. All analytes detected at concentrations less than the quantitation limit but greater than the method detection limit were qualified by the laboratory as estimated (J). This J-qualifier was retained during data validation. Table B-1 in Attachment B provides a summary of the qualified results.

Attachment A
Sample and Analysis Summary

Table A-1 Sample and Analysis Summary						
SDG	**Sample ID**	**Sample Date**	**Sample Type**	**EPA 903.1**	**EPA 904.0**	**CALC**
742786	MCM-AP1-EB-01-20250909	9/9/2025	Equipment Blank	X	X	X
742786	MCM-AP1-EB-02-20250910	9/10/2025	Equipment Blank	X	X	X
742786	MCM-AP1-FB-01-20250909	9/9/2025	Field Blank	X	X	X
742786	MCM-AP1-FB-02-20250910	9/10/2025	Field Blank	X	X	X
742786	MCM-AP1-FD-01-20250909	9/9/2025	Duplicate of MCM-MCM-14-20250909	X	X	X
742786	MCM-AP1-FD-02-20250910	9/10/2025	Duplicate of MCM-MCM-16-20250910	X	X	X
742786	MCM-DPZ-02-20250910	9/10/2025	Groundwater	X	X	X
742786	MCM-MCM-01-20250909	9/9/2025	Groundwater	X	X	X
742786	MCM-MCM-02-20250910	9/10/2025	Groundwater	X	X	X
742786	MCM-MCM-04-20250910	9/10/2025	Groundwater	X	X	X
742786	MCM-MCM-05-20250909	9/9/2025	Groundwater	X	X	X
742786	MCM-MCM-06-20250909	9/9/2025	Groundwater	X	X	X
742786	MCM-MCM-07-20250911	9/11/2025	Groundwater	X	X	X
742786	MCM-MCM-11-20250910	9/10/2025	Groundwater	X	X	X
742786	MCM-MCM-12-20250909	9/9/2025	Groundwater	X	X	X
742786	MCM-MCM-14-20250909	9/9/2025	Groundwater	X	X	X
742786	MCM-MCM-15-20250909	9/9/2025	Groundwater	X	X	X
742786	MCM-MCM-16-20250910	9/10/2025	Groundwater	X	X	X
742786	MCM-MCM-17-20250911	9/11/2025	Groundwater	X	X	X
742786	MCM-MCM-18-20250909	9/9/2025	Groundwater	X	X	X
742786	MCM-MCM-19-20250909	9/9/2025	Groundwater	X	X	X
742786	MCM-MCM-20-20250909	9/9/2025	Groundwater	X	X	X

Notes:

SDG	=	sample delivery group
ID	=	identification
EPA	=	Environmental Protection Agency
903.1	=	radium-226 via EPA Method 903.1
904.0	=	radium-228 via EPA Method 904.0
CALC	=	combined radium-226 and 228 by calculation
X	=	Sample was analyzed for the method indicated in the column header.

Attachment B
Qualified Results Summary

Table B-1 Qualified Results Summary								
SDG	**Method**	**Sample Identification**	**Analyte**	**Result**	**Unit**	**Reporting Limit**	**Validation Qualifier**	**RC**
742786	CALC	MCM-AP1-FD-02-20250910	Radium-226+228 Sum	2.66	pCi/L	2.03	U	BEL
742786	CALC	MCM-MCM-01-20250909	Radium-226+228 Sum	2.27	pCi/L	1.74	U	BF1
742786	CALC	MCM-MCM-04-20250910	Radium-226+228 Sum	2.28	pCi/L	2.16	U	BEL
742786	CALC	MCM-MCM-11-20250910	Radium-226+228 Sum	2.95	pCi/L	1.81	U	BEL
742786	CALC	MCM-MCM-12-20250909	Radium-226+228 Sum	2.52	pCi/L	1.58	U	BF1
742786	CALC	MCM-MCM-15-20250909	Radium-226+228 Sum	2.57	pCi/L	1.55	U	BF1
742786	EPA 903.1	MCM-AP1-FD-01-20250909	Radium-226	3.25	pCi/L	0.631	J+	BF2
742786	EPA 903.1	MCM-AP1-FD-02-20250910	Radium-226	0.771	pCi/L	0.347	U	BF1
742786	EPA 903.1	MCM-MCM-01-20250909	Radium-226	1.4	pCi/L	0.325	J+	BF2
742786	EPA 903.1	MCM-MCM-05-20250909	Radium-226	3.58	pCi/L	0.736	J+	BF2
742786	EPA 903.1	MCM-MCM-12-20250909	Radium-226	1.08	pCi/L	0.531	J+	BF2
742786	EPA 903.1	MCM-MCM-14-20250909	Radium-226	2.92	pCi/L	0.354	J+	BF2
742786	EPA 903.1	MCM-MCM-15-20250909	Radium-226	0.612	pCi/L	0.452	U	BF1
742786	EPA 903.1	MCM-MCM-18-20250909	Radium-226	2.39	pCi/L	0.713	J+	BF2
742786	EPA 903.1	MCM-MCM-20-20250909	Radium-226	2.55	pCi/L	0.447	J+	BF2

Notes:

SDG = sample delivery group
RC = reason code
CALC = combined radium-226+228 by calculation
pCi/L = picocuries per liter
EPA = Environmental Protection Agency

Qualifier Definitions:

U = The result was qualified as nondetect.
J+ = Detected result was qualified as estimated and may be biased high.

Reason Code Definitions:

BEL = equipment blank contamination less than the reporting limit
BF1 = field blank contamination less than the reporting limit
BF2 = field blank contamination greater than or equal to the reporting limit

VALIDATION SUMMARY

This report summarizes data validation findings for the March 2026 sampling event at the Georgia Power — McManus Fossil Plant facility in Brunswick, Georgia. Data was validated independently from the laboratory to assess data quality. Samples discussed in this report were collected between March 10 and 12, 2025. Samples were analyzed by GEL Laboratories, LLC in Charleston, South Carolina. EnSafe Inc. reviewed the analytical data discussed in this report.

The quality assurance criteria used to assess all data were established by the analytical methods, consistent with the measurement performance criteria provided in the relevant standards in the following guidance documents:

- National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006 (United States Environmental Protection Agency, November 2020)
- Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma — Atomic Emission Spectroscopy and Inductively Coupled Plasma — Mass Spectroscopy (United States Environmental Protection Agency Region IV, September 2011)
- Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Cold Vapor Atomic Absorption (United States Environmental Protection Agency Region IV, September 2011)

United States Environmental Protection Agency Stage 2A electronic and manual data validation, consisting of analytical results review and quality control summaries, was performed on samples from sample delivery groups 768186 and 768188. Table A-1 in Attachment A summarizes all samples collected.

The analytes were reviewed for the following parameters, as applicable to the method:

* Data completeness
* Sample receipt and preservation
* Holding times
* Laboratory control sample
* Matrix spike/matrix spike duplicate
* Laboratory duplicates
  Laboratory blanks
  Field blanks (equipment and field)
* Field duplicates

When the quality control parameters did not fall within the specific method or data review guidelines, the data validator qualified the corresponding compounds. Acceptable data parameters for which all criteria were met, or no qualification was performed, as indicated above with an asterisk (*), are not discussed further.

Laboratory Blanks

Laboratory blanks were free from contamination or did not result in sample qualification, with the exceptions noted in Table 1, with the resulting qualifications.

Table 1
Laboratory Blank Outliers

SDG	Method	Blank ID	Analyte	Blank Result (mg/L)	Sample Qualified	Sample Result (mg/L)	Sample RL (mg/L)	Qual	RC
768186	EPA 7470A	MB-1206406971	Mercury	0.0000690	MCM-AP1-EB-02-20260311	0.0000690	0.000200	U	BL1

Notes:
SDG = sample delivery group
ID = identification
mg/L = milligrams per liter
RL = reporting limit
Qual = qualifier
RC = reason code
EPA = Environmental Protection Agency
U = The result was qualified as nondetect at the reporting limits.
BL1 = laboratory blank contamination less than the reporting limit

Field Blanks

Field and equipment blanks were free from contamination, with the exceptions noted in Table 2.

Table 2
Field Blank Outliers

SDG	Method	Blank ID	Analyte	Blank Result (mg/L)	Samples Qualified	Sample Result (mg/L)	Sample RL (mg/L)	Qualifier	RC
768186	EPA 6020B	MCM-AP1-EB-01-20260310	Barium	0.00339	None	—	—	—	—
768186	EPA 7470A	MCM-AP1-EB-02-20260311	Mercury	0.0000690	None	—	—	—	—

Notes:
SDG = sample delivery group
ID = identification
mg/L = milligrams per liter
RL = reporting limit
RC = reason code
EPA = Environmental Protection Agency
— = Sample qualification was not necessary since the associated results were nondetect or significantly higher in concentration.

Sample Dilutions

Table 3 summarizes samples that were reported from dilutions. The sample results and reporting limits were adjusted accordingly.

Table 3
Sample Dilutions

SDG	Method	Sample ID	Analyte	Dilution Factor
768186	EPA 300.0	MCM-AP1-FD-01-20260310	Chloride	250
768186	EPA 300.0	MCM-AP1-FD-01-20260310	Fluoride	5
768186	EPA 300.0	MCM-AP1-FD-01-20260310 MCM-MCM-18-20260310	Sulfate	20
768186	EPA 6020B	MCM-AP1-FD-01-20260310	Boron	5
768186	EPA 300.0	MCM-AP1-FD-02-20260311 MCM-MCM-01-20260310 MCM-MCM-02-20260311	Sulfate Chloride	2
768186	EPA 6020B	MCM-AP1-FD-02-20260311	Boron	4
768186	EPA 300.0	MCM-DPZ-02-20260310 MCM-MCM-05-20260310 MCM-MCM-06-20260310 MCM-MCM-07-20260311 MCM-MCM-14-20260310 MCM-MCM-20-20260312	Chloride	1000
768186	EPA 300.0	MCM-DPZ-02-20260310 MCM-MCM-05-20260310 MCM-MCM-06-20260310 MCM-MCM-07-20260311 MCM-MCM-14-20260310 MCM-MCM-17-20260310 MCM-MCM-19-20260311 MCM-MCM-20-20260312	Fluoride	5
768186	EPA 300.0	MCM-DPZ-02-20260310 MCM-MCM-05-20260310 MCM-MCM-07-20260311 MCM-MCM-14-20260310 MCM-MCM-20-20260312	Sulfate	50
768186	EPA 6020B	MCM-DPZ-02-20260310	Calcium Thallium Barium Lithium Cadmium Antimony Beryllium Arsenic Molybdenum Selenium Chromium Cobalt Lead	5
768186	EPA 6020B	MCM-DPZ-02-20260310 MCM-MCM-05-20260310 MCM-MCM-06-20260310	Boron Potassium Magnesium	10
768186	EPA 6020B	MCM-DPZ-02-20260310 MCM-MCM-05-20260310	Sodium	100

Table 3 Sample Dilutions				
SDG	**Method**	**Sample ID**	**Analyte**	**Dilution Factor**
		MCM-MCM-06-20260310 MCM-MCM-07-20260311 MCM-MCM-14-20260310		
768186	EPA 300.0	MCM-MCM-04-20260310 MCM-MCM-15-20260311	Chloride	2
768186	EPA 6020B	MCM-MCM-05-20260310	Thallium Lead Molybdenum Calcium Cadmium Arsenic Antimony Selenium Barium	5
768186	EPA 300.0	MCM-MCM-06-20260310	Sulfate	100
768186	EPA 6020B	MCM-MCM-06-20260310	Arsenic Lead Barium Calcium Antimony Thallium Molybdenum Selenium Cadmium	5
768186	EPA 6020B	MCM-MCM-07-20260311	Barium Antimony Molybdenum Cadmium Thallium Lead	5
768186	EPA 6020B	MCM-MCM-07-20260311	Boron Calcium Magnesium Potassium	10
768186	EPA 300.0	MCM-MCM-11-20260311 MCM-MCM-16-20260312	Sulfate	2
768186	EPA 6020B	MCM-MCM-11-20260311	Sodium Magnesium Iron Potassium	5
768186	EPA 300.0	MCM-MCM-12-20260311	Chloride	50
768186	EPA 6020B	MCM-MCM-12-20260311	Boron Sodium	10
768186	EPA 6020B	MCM-MCM-14-20260310	Selenium Molybdenum Lead Cadmium Antimony Thallium Boron Arsenic Calcium	5

Table 3
Sample Dilutions

SDG	Method	Sample ID	Analyte	Dilution Factor
			Barium	
768186	EPA 6020B	MCM-MCM-14-20260310	Magnesium Potassium	10
768186	EPA 6020B	MCM-MCM-15-20260311 MCM-MCM-16-20260312	Sodium Potassium Iron Magnesium	5
768186	EPA E300.0	MCM-MCM-17-20260310	Sulfate	25
768186	EPA E300.0	MCM-MCM-17-20260310 MCM-MCM-19-20260311	Chloride	500
768186	EPA 6020B	MCM-MCM-17-20260310	Magnesium Potassium Boron	10
768186	EPA 6020B	MCM-MCM-17-20260310 MCM-MCM-18-20260310 MCM-MCM-19-20260311 MCM-MCM-20-20260312	Sodium	100
768186	EPA 300.0	MCM-MCM-18-20260310	Chloride	200
768186	EPA 300.0	MCM-MCM-18-20260310	Fluoride	1
768186	EPA 6020B	MCM-MCM-18-20260310 MCM-MCM-19-20260311	Boron	5
768186	EPA 6020B	MCM-MCM-18-20260310	Potassium Sodium Magnesium Iron	10
768186	EPA 300.0	MCM-MCM-19-20260311	Sulfate	20
768186	EPA 6020B	MCM-MCM-19-20260311	Magnesium	10
768186	EPA 6020B	MCM-MCM-20-20260312	Beryllium Calcium Cobalt Chromium Arsenic Antimony Lead Cadmium Lithium Molybdenum Selenium Barium Thallium	5
768186	EPA 6020B	MCM-MCM-20-20260312	Boron Iron Magnesium Potassium	10

Notes:
SDG = sample delivery group
ID = identification
EPA = Environmental Protection Agency

Overall Assessment

The data from the March 2026 sampling event were reviewed independently from the laboratory to assess data quality. All analytes detected at concentrations below the reporting limit but above the method detection limit were qualified by the laboratory as estimated (J). This J-qualifier was retained during data validation. Table B-1 in Attachment B provides a summary of the qualified results.

Attachment A

Sample and Analysis Summary

Table A-1 Sample and Analysis Summary								
SDG	**Sample ID**	**Sample Date**	**Sample Type**	**EPA 300.0**	**EPA 6020B**	**SM 2320B**	**EPA 7470A**	**SM 2540C**
768186/768188	MCM-MCM-01-20260310	768186001	3/10/2026	Groundwater	X	X	X	X
768186/768188	MCM-MCM-02-20260311	768186002	3/11/2026	Groundwater	X	X	X	X
768186/768188	MCM-MCM-04-20260310	768186003	3/10/2026	Groundwater	X	X	X	X
768186/768188	MCM-MCM-05-20260310	768186004	3/10/2026	Groundwater	X	X	X	X
768186/768188	MCM-MCM-06-20260310	768186005	3/10/2026	Groundwater	X	X	X	X
768186/768188	MCM-MCM-07-20260311	768186006	3/11/2026	Groundwater	X	X	X	X
768186/768188	MCM-MCM-11-20260311	768186007	3/11/2026	Groundwater	X	X	X	X
768186/768188	MCM-MCM-12-20260311	768186008	3/11/2026	Groundwater	X	X	X	X
768186/768188	MCM-MCM-14-20260310	768186009	3/10/2026	Groundwater	X	X	X	X
768186/768188	MCM-MCM-15-20260311	768186010	3/11/2026	Groundwater	X	X	X	X
768186/768188	MCM-MCM-16-20260312	768186011	3/12/2026	Groundwater	X	X	X	X
768186/768188	MCM-MCM-17-20260310	768186012	3/10/2026	Groundwater	X	X	X	X
768186/768188	MCM-MCM-18-20260310	768186013	3/10/2026	Groundwater	X	X	X	X
768186/768188	MCM-MCM-19-20260311	768186014	3/11/2026	Groundwater	X	X	X	X
768186/768188	MCM-MCM-20-20260312	768186015	3/12/2026	Groundwater	X	X	X	X
768186/768188	MCM-DPZ-02-20260310	768186016	3/10/2026	Groundwater	X	X	X	X
768186	MCM-AP1-FD-01-20260310	768186017	3/10/2026	Duplicate of MCM-MCM-18-20260310	X	X		X
768186	MCM-AP1-FD-02-20260311	768186018	3/11/2026	Duplicate of MCM-MCM-02-20260311	X	X		X
768186	MCM-AP1-FB-01-20260310	768186019	3/10/2026	Field Blank	X	X		X
768186	MCM-AP1-FB-02-20260311	768186020	3/11/2026	Field Blank	X	X		X
768186	MCM-AP1-EB-01-20260310	768186021	3/10/2026	Equipment Blank	X	X		X
768186	MCM-AP1-EB-02-20260311	768186022	3/11/2026	Equipment Blank	X	X		X

Notes:

SDG = sample delivery group
ID = identification
EPA = Environmental Protection Agency
6020B = metals via EPA Method 6020B
SM 2023B = total alkalinity via Standard Method 2320B
7470A = mercury via EPA Method 7470A
SM 2540C = total dissolved solids via Standard Method 2540C
X = The sample was analyzed for the method indicated in the column header.

Attachment B

Qualified Results Summary

Table B-1 Qualified Results Summary								
SDG	**Method**	**Sample Identification**	**Analyte**	**Result**	**Unit**	**Reporting Limit**	**Validation Qualifier**	**RC**
768186	EPA 7470A	MCM-AP1-EB-02-20260311	Mercury	0.000067	mg/L	0.0000670	U	BL1

Notes:

SDG = sample delivery group
RC = reason code
EPA = Environmental Protection Agency
mg/L = milligrams per liter

Qualifier Definitions:

U = The result was qualified as nondetect.

Reason Code Definitions:

BL1 = laboratory blank contamination less than the reporting limit

VALIDATION SUMMARY

This report summarizes data validation findings for the March 2026 sampling event at the Georgia Power — McManus Fossil Plant facility in Brunswick, Georgia. Data was validated independently from the laboratory to assess data quality. Samples discussed in this report were collected between March 10 and 12, 2026. Samples were analyzed by GEL Laboratories, LLC in Charleston, South Carolina. EnSafe Inc. reviewed the analytical data discussed in this report.

The quality assurance criteria used to assess all data were established by the analytical methods, consistent with the measurement performance criteria provided in the relevant standards in the following guidance documents:

- National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006 (United States Environmental Protection Agency, November 2020).
- Multi-Agency Radiological Laboratory Analytical Protocols Manual (United States Environmental Protection Agency, July 2004).

United States Environmental Protection Agency Stage 2A electronic and manual data validation, consisting of analytical results review and quality control summaries, were performed on samples from sample delivery group 768189. Table A-1 in Attachment A provides a summary of all samples collected.

The analytes were reviewed for the following parameters, as applicable to the method:

* Data completeness
* Sample receipt and preservation
* Holding times
* Laboratory control sample/laboratory control sample duplicate
* Tracers
* Matrix spike
* Laboratory duplicates
* Laboratory blanks
* Field blanks (equipment and field)
* Field duplicates

When the quality control parameters did not fall within the specific method or data review guidelines, the data validator qualified the corresponding compounds. Acceptable data parameters for which all criteria were met, or no qualification was performed, as indicated above with an asterisk (*), are not discussed further.

Overall Assessment

The data from the March 2026 sampling event were reviewed independently from the laboratory to assess data quality. No qualifiers were applied during data validation.

Attachment A

Sample and Analysis Summary

Table A-1 Sample and Analysis Summary						
SDG	**Sample ID**	**Sample Date**	**Sample Type**	**EPA 903.1**	**EPA 904.0**	**CALC**
768186	MCM-MCM-01-20260310	3/10/2026	Groundwater	X	X	X
768186	MCM-MCM-02-20260311	3/11/2026	Groundwater	X	X	X
768186	MCM-MCM-04-20260310	3/10/2026	Groundwater	X	X	X
768186	MCM-MCM-05-20260310	3/10/2026	Groundwater	X	X	X
768186	MCM-MCM-06-20260310	3/10/2026	Groundwater	X	X	X
768186	MCM-MCM-07-20260311	3/11/2026	Groundwater	X	X	X
768186	MCM-MCM-11-20260311	3/11/2026	Groundwater	X	X	X
768186	MCM-MCM-12-20260311	3/11/2026	Groundwater	X	X	X
768186	MCM-MCM-14-20260310	3/10/2026	Groundwater	X	X	X
768189	MCM-MCM-15-20260310	3/10/2026	Groundwater	X	X	X
768186	MCM-MCM-16-20260312	3/12/2026	Groundwater	X	X	X
768186	MCM-MCM-17-20260310	3/10/2026	Groundwater	X	X	X
768186	MCM-MCM-18-20260310	3/10/2026	Groundwater	X	X	X
768186	MCM-MCM-19-20260311	3/11/2026	Groundwater	X	X	X
768186	MCM-MCM-20-20260312	3/12/2026	Groundwater	X	X	X
768186	MCM-DPZ-02-20260310	3/10/2026	Groundwater	X	X	X
768186	MCM-AP1-FD-01-20260310	3/10/2026	Duplicate of MCM-MCM-18-20260310	X	X	X
768186	MCM-AP1-FD-02-20260311	3/11/2026	Duplicate of MCM-MCM-02-20260311	X	X	X
768186	MCM-AP1-FB-01-20260310	3/10/2026	Field Blank	X	X	X
768186	MCM-AP1-FB-02-20260311	3/11/2026	Field Blank	X	X	X
768186	MCM-AP1-EB-01-20260310	3/10/2026	Equipment Blank	X	X	X
768186	MCM-AP1-EB-02-20260311	3/11/2026	Equipment Blank	X	X	X

Notes:

SDG	=	sample delivery group
ID	=	identification
EPA	=	Environmental Protection Agency
903.1	=	radium-226 via EPA Method 903.1
904.0	=	radium-228 via EPA Method 904.0
CALC	=	combined radium-226 and 228 by calculation
X	=	Sample was analyzed for the method indicated in the column header

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 04/16/2025

Calibrated By: Jay Siewert

Field Conditions: 76°/45°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080307
Turbidity Meter	LaMotte 2020	70423818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	05/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	07:57	**Time Finish**	08:13		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	98.68	13.52	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,248.90	14.55	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	14.75	± 0.1	GWMP
pH (SU)	7.00	7.08	15.21	± 0.1	GWMP
pH (SU)	10.00	10.20	15.36	± 0.1	GWMP
ORP (mV)	228.0	232.20	15.52	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.10		
	10.00	10.91		

Calibration Check					
Time Start	13:20	**Time Finish**	13:32		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,299.10	25.81	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	25.50	± 0.1	GWMP
pH (SU)	7.00	7.12	27.72	± 0.1	GWMP
pH (SU)	10.00	10.09	26.75	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.00		
	10.00	10.53		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 04/15/2025

Calibrated By: Natalie Piparo

Field Conditions: H 84, L 59

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1149710
Turbidity Meter	LaMotte 2020	20680320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	05/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	08:19	**Time Finish**	08:29		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.60	16.65	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,652.10	17.38	± 10% of standard	EPA 2023
pH (SU)	4.00	4.17	17.77	± 0.1	GWMP
pH (SU)	7.00	7.03	18.14	± 0.1	GWMP
pH (SU)	10.00	9.98	18.31	± 0.1	GWMP
ORP (mV)	228.0	231.90	18.21	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.23		
	10.00	10.42		

Calibration Check					
Time Start	15:18	**Time Finish**	15:26		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,445.50	31.54	± 10% of standard	EPA 2023
pH (SU)	4.00	4.16	31.57	± 0.1	GWMP
pH (SU)	7.00	7.20	30.23	± 0.1	GWMP
pH (SU)	10.00	10.12	30.43	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.27		
	10.00	10.14		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 04/15/2025

Calibrated By: Jay Siewert

Field Conditions: 85°/64°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080307
Turbidity Meter	LaMotte 2020	70423818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	05/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	09:32	**Time Finish**	09:59		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	89.58	19.05	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,818.40	19.58	± 10% of standard	EPA 2023
pH (SU)	4.00	4.27	20.07	± 0.1	GWMP
pH (SU)	7.00	7.13	19.81	± 0.1	GWMP
pH (SU)	10.00	10.03	19.85	± 0.1	GWMP
ORP (mV)	228.0	223.20	20.00	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.09		
	10.00	10.68		

Calibration Check					
Time Start	15:23	**Time Finish**	15:35		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,256.20	29.08	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	29.14	± 0.1	GWMP
pH (SU)	7.00	7.15	29.15	± 0.1	GWMP
pH (SU)	10.00	10.19	30.06	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.05		
	10.00	10.63		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 04/16/2025

Calibrated By: Natalie Piparo

Field Conditions: H 75, L 51

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1149710
Turbidity Meter	LaMotte 2020	20680320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24010943	05/2025	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24008587	06/2025	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24004996	06/2025	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24010943	05/2025	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24006903	05/2025	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	07:49	**Time Finish**	08:00		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	102.30	13.95	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,445.40	14.41	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	14.54	± 0.1	GWMP
pH (SU)	7.00	7.03	15.23	± 0.1	GWMP
pH (SU)	10.00	10.00	15.31	± 0.1	GWMP
ORP (mV)	228.0	234.80	15.20	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.01		
	10.00	9.92		

Calibration Check					
Time Start	12:19	**Time Finish**	12:28		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,396.70	22.49	± 10% of standard	EPA 2023
pH (SU)	4.00	4.21	22.42	± 0.1	GWMP
pH (SU)	7.00	7.25	22.71	± 0.1	GWMP
pH (SU)	10.00	10.19	25.66	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.33		
	10.00	10.06		

Notes:

Start of Day:

End of Day:

Low-Flow Test Report:

Test Date / Time: 4/15/2025 1:25:15 PM
Project: Plant McManus 34 Week Performance
Operator Name: Jay Siewert

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.87 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 5.2 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 7200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.74 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
4/15/2025 1:25 PM	00:00	6.94 pH	24.59 °C	18,081 µS/cm	0.02 mg/L	0.86 NTU	-246.9 mV	5.71 ft	10.84 PSU	240.00 ml/min
4/15/2025 1:30 PM	05:00	6.76 pH	24.02 °C	18,199 µS/cm	0.02 mg/L	0.89 NTU	-256.8 mV	5.77 ft	10.92 PSU	240.00 ml/min
4/15/2025 1:35 PM	10:00	6.62 pH	24.23 °C	18,238 µS/cm	0.01 mg/L	0.84 NTU	-291.4 mV	5.82 ft	10.94 PSU	240.00 ml/min
4/15/2025 1:40 PM	15:00	6.58 pH	24.68 °C	18,213 µS/cm	0.00 mg/L	0.64 NTU	-302.5 mV	5.86 ft	10.93 PSU	240.00 ml/min
4/15/2025 1:45 PM	20:00	6.57 pH	24.77 °C	18,194 µS/cm	-0.00 mg/L	0.79 NTU	-305.9 mV	5.89 ft	10.92 PSU	240.00 ml/min
4/15/2025 1:50 PM	25:00	6.57 pH	24.70 °C	18,191 µS/cm	-0.01 mg/L	1.03 NTU	-307.4 mV	5.91 ft	10.91 PSU	240.00 ml/min
4/15/2025 1:55 PM	30:00	6.57 pH	25.04 °C	18,159 µS/cm	-0.01 mg/L	0.50 NTU	-309.4 mV	5.94 ft	10.89 PSU	240.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 4/15/2025 10:28:41 AM
Project: Plant McManus 34 Week Performance
Operator Name: Jay Siewert

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 5.75 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 6250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: -0.17 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Pre-purged 2.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
4/15/2025 10:28 AM	00:00	6.97 pH	22.10 °C	8,866.5 µS/cm	0.03 mg/L	1.18 NTU	-392.3 mV	5.71 ft	5.02 PSU	250.00 ml/min
4/15/2025 10:33 AM	05:00	6.93 pH	22.21 °C	8,777.2 µS/cm	-0.01 mg/L	1.50 NTU	-434.9 mV	5.69 ft	4.96 PSU	250.00 ml/min
4/15/2025 10:38 AM	10:00	6.95 pH	22.35 °C	8,536.9 µS/cm	-0.02 mg/L	1.27 NTU	-459.6 mV	5.66 ft	4.82 PSU	250.00 ml/min
4/15/2025 10:43 AM	15:00	6.94 pH	22.45 °C	8,479.2 µS/cm	-0.03 mg/L	1.24 NTU	-488.6 mV	5.64 ft	4.78 PSU	250.00 ml/min
4/15/2025 10:48 AM	20:00	6.93 pH	22.55 °C	8,494.2 µS/cm	-0.04 mg/L	1.21 NTU	-511.6 mV	5.61 ft	4.79 PSU	250.00 ml/min
4/15/2025 10:53 AM	25:00	6.93 pH	22.66 °C	8,422.8 µS/cm	-0.04 mg/L	1.19 NTU	-528.3 mV	5.58 ft	4.75 PSU	250.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/16/2025 11:06:09 AM
Project: Plant McManus 34 Week Performance
Operator Name: Natalie Piparo

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 8.03 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 4375 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 175 ml/min** **Final Draw Down: -0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1149710**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
4/16/2025 11:06 AM	00:00	6.75 pH	24.16 °C	16,383 µS/cm	0.58 mg/L	2.13 NTU	-222.4 mV	7.99 ft	9.74 PSU	175.00 ml/min
4/16/2025 11:11 AM	05:00	6.79 pH	21.87 °C	17,156 µS/cm	0.24 mg/L	1.21 NTU	-259.6 mV	7.96 ft	10.23 PSU	175.00 ml/min
4/16/2025 11:16 AM	10:00	6.83 pH	21.77 °C	17,084 µS/cm	0.15 mg/L	1.78 NTU	-223.7 mV	7.92 ft	10.18 PSU	175.00 ml/min
4/16/2025 11:21 AM	15:00	6.85 pH	21.77 °C	16,972 µS/cm	0.10 mg/L	1.06 NTU	-224.9 mV	7.90 ft	10.11 PSU	175.00 ml/min
4/16/2025 11:26 AM	20:00	6.88 pH	21.96 °C	16,804 µS/cm	0.07 mg/L	0.75 NTU	-226.7 mV	7.87 ft	10.00 PSU	175.00 ml/min
4/16/2025 11:31 AM	25:00	6.90 pH	21.90 °C	16,681 µS/cm	0.06 mg/L	0.49 NTU	-227.3 mV	7.83 ft	9.92 PSU	175.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/15/2025 1:20:05 PM
Project: Plant McManus 34 Week Performance
Operator Name: Natalie Piparo

Location Name: DR-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.86 ft** **Total Depth: 30.86 ft** **Initial Depth to Water: 5.34 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.36 ft** **Estimated Total Volume Pumped: 5250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.21 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1149710**

Test Notes:
Prepurged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
4/15/2025 1:20 PM	00:00	6.99 pH	28.14 °C	13,308 µS/cm	0.59 mg/L	0.25 NTU	-204.9 mV	5.43 ft	7.78 PSU	210.00 ml/min
4/15/2025 1:25 PM	05:00	7.01 pH	24.03 °C	13,919 µS/cm	0.15 mg/L	0.33 NTU	-212.9 mV	5.46 ft	8.16 PSU	210.00 ml/min
4/15/2025 1:30 PM	10:00	7.03 pH	23.48 °C	13,704 µS/cm	0.10 mg/L	0.38 NTU	-187.2 mV	5.47 ft	8.02 PSU	210.00 ml/min
4/15/2025 1:35 PM	15:00	7.03 pH	23.62 °C	13,573 µS/cm	0.07 mg/L	0.37 NTU	-187.1 mV	5.49 ft	7.94 PSU	210.00 ml/min
4/15/2025 1:40 PM	20:00	7.03 pH	23.80 °C	13,536 µS/cm	0.06 mg/L	0.33 NTU	-185.6 mV	5.51 ft	7.92 PSU	210.00 ml/min
4/15/2025 1:45 PM	25:00	7.06 pH	23.91 °C	13,300 µS/cm	0.05 mg/L	0.32 NTU	-185.2 mV	5.55 ft	7.77 PSU	210.00 ml/min

Samples

Sample ID:	Description:
DR-01	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/15/2025 10:03:48 AM
Project: Plant McManus 34 Week Performance
Operator Name: Natalie Piparo

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 5.78 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: -0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1149710**

Test Notes:
Prepurged 4L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
4/15/2025 10:03 AM	00:00	6.78 pH	24.65 °C	15,526 µS/cm	0.15 mg/L	0.52 NTU	-150.6 mV	5.80 ft	9.19 PSU	210.00 ml/min
4/15/2025 10:08 AM	05:00	6.82 pH	22.63 °C	15,654 µS/cm	0.09 mg/L	0.49 NTU	-207.7 mV	5.78 ft	9.26 PSU	210.00 ml/min
4/15/2025 10:13 AM	10:00	6.84 pH	22.46 °C	15,532 µS/cm	0.07 mg/L	0.51 NTU	-177.0 mV	5.74 ft	9.18 PSU	210.00 ml/min
4/15/2025 10:18 AM	15:00	6.88 pH	22.52 °C	15,155 µS/cm	0.06 mg/L	0.34 NTU	-180.5 mV	5.71 ft	8.94 PSU	210.00 ml/min
4/15/2025 10:23 AM	20:00	6.90 pH	22.61 °C	14,864 µS/cm	0.05 mg/L	0.35 NTU	-182.0 mV	5.69 ft	8.76 PSU	210.00 ml/min
4/15/2025 10:28 AM	25:00	6.91 pH	22.64 °C	14,787 µS/cm	0.05 mg/L	0.30 NTU	-183.5 mV	5.67 ft	8.71 PSU	210.00 ml/min

Samples

Sample ID:	Description:
PT-01	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/16/2025 11:24:48 AM
Project: Plant McManus 34 Week Performance
Operator Name: Jay Siewert

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.84 ft** **Total Depth: 25.84 ft** **Initial Depth to Water: 5.15 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.84 ft** **Estimated Total Volume Pumped: 7350 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: -0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
4/16/2025 11:24 AM	00:00	7.01 pH	21.41 °C	16,853 µS/cm	0.09 mg/L	0.25 NTU	-325.9 mV	5.14 ft	10.03 PSU	210.00 ml/min
4/16/2025 11:29 AM	05:00	6.65 pH	21.28 °C	16,492 µS/cm	0.04 mg/L	0.17 NTU	-327.4 mV	5.11 ft	9.79 PSU	210.00 ml/min
4/16/2025 11:34 AM	10:00	6.67 pH	21.36 °C	16,165 µS/cm	0.03 mg/L	0.12 NTU	-328.8 mV	5.09 ft	9.58 PSU	210.00 ml/min
4/16/2025 11:39 AM	15:00	6.71 pH	21.41 °C	15,649 µS/cm	0.02 mg/L	0.09 NTU	-330.3 mV	5.05 ft	9.25 PSU	210.00 ml/min
4/16/2025 11:44 AM	20:00	6.73 pH	21.54 °C	15,387 µS/cm	0.02 mg/L	0.34 NTU	-331.1 mV	5.03 ft	9.09 PSU	210.00 ml/min
4/16/2025 11:49 AM	25:00	6.76 pH	21.54 °C	15,063 µS/cm	0.02 mg/L	0.28 NTU	-332.3 mV	5.00 ft	8.88 PSU	210.00 ml/min
4/16/2025 11:54 AM	30:00	6.76 pH	21.65 °C	14,912 µS/cm	0.01 mg/L	0.15 NTU	-332.7 mV	4.98 ft	8.78 PSU	210.00 ml/min
4/16/2025 11:59 AM	35:00	6.76 pH	21.73 °C	14,915 µS/cm	0.01 mg/L	0.13 NTU	-332.4 mV	4.95 ft	8.78 PSU	210.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Low-Flow Test Report:

Test Date / Time: 4/16/2025 9:41:37 AM
Project: Plant McManus 34 Week Performance
Operator Name: Jay Siewert

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.44 ft** **Total Depth: 30.44 ft** **Initial Depth to Water: 5.95 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.94 ft** **Estimated Total Volume Pumped: 6250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: -0.26 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Pre-purged 4 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
4/16/2025 9:41 AM	00:00	7.64 pH	21.45 °C	12,581 µS/cm	0.03 mg/L	0.89 NTU	-365.4 mV	5.84 ft	7.31 PSU	250.00 ml/min
4/16/2025 9:46 AM	05:00	7.26 pH	21.44 °C	12,474 µS/cm	0.02 mg/L	0.65 NTU	-364.6 mV	5.81 ft	7.24 PSU	250.00 ml/min
4/16/2025 9:51 AM	10:00	7.25 pH	21.48 °C	12,373 µS/cm	0.02 mg/L	0.67 NTU	-365.4 mV	5.79 ft	7.18 PSU	250.00 ml/min
4/16/2025 9:56 AM	15:00	7.27 pH	21.49 °C	12,304 µS/cm	0.01 mg/L	0.64 NTU	-366.3 mV	5.75 ft	7.13 PSU	250.00 ml/min
4/16/2025 10:01 AM	20:00	7.26 pH	21.70 °C	12,277 µS/cm	0.01 mg/L	0.67 NTU	-366.6 mV	5.72 ft	7.12 PSU	250.00 ml/min
4/16/2025 10:06 AM	25:00	7.27 pH	21.81 °C	12,178 µS/cm	0.00 mg/L	0.51 NTU	-367.0 mV	5.69 ft	7.06 PSU	250.00 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Diss. Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/16/2025 9:08:14 AM
Project: Plant McManus 34 Week Performance
Operator Name: Natalie Piparo

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 6.26 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5625 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 225 ml/min** **Final Draw Down: -0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1149710**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
4/16/2025 9:08 AM	00:00	6.53 pH	20.48 °C	17,027 µS/cm	0.37 mg/L	0.63 NTU	-157.0 mV	6.29 ft	10.13 PSU	225.00 ml/min
4/16/2025 9:13 AM	05:00	6.55 pH	20.26 °C	17,165 µS/cm	0.13 mg/L	1.17 NTU	-190.6 mV	6.27 ft	10.22 PSU	225.00 ml/min
4/16/2025 9:18 AM	10:00	6.56 pH	20.44 °C	17,098 µS/cm	0.10 mg/L	1.28 NTU	-168.6 mV	6.23 ft	10.18 PSU	225.00 ml/min
4/16/2025 9:23 AM	15:00	6.57 pH	20.62 °C	16,968 µS/cm	0.08 mg/L	1.01 NTU	-176.9 mV	6.22 ft	10.09 PSU	225.00 ml/min
4/16/2025 9:28 AM	20:00	6.59 pH	20.73 °C	16,862 µS/cm	0.07 mg/L	0.78 NTU	-187.5 mV	6.18 ft	10.03 PSU	225.00 ml/min
4/16/2025 9:33 AM	25:00	6.61 pH	20.89 °C	16,744 µS/cm	0.06 mg/L	0.57 NTU	-201.5 mV	6.15 ft	9.95 PSU	225.00 ml/min

Samples

Sample ID:	Description:
PT-02	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation
FD-01	Metals, Diss Metals, Inorganics, Alkalinity, TDS, Sulfide, Deuterium, As Speciation

Created using VuSitu from In-Situ, Inc.

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 09/09/2025

Calibrated By: Natalie Piparo

Field Conditions: H 79, L 67

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1197755
Turbidity Meter	LaMotte 2020	15114111

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24014218	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24014218	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24014266	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24011537	01/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24014218	01/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	22490162	01/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	08:32	**Time Finish**	08:49		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	96.06	22.12	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,510.20	22.21	± 10% of standard	EPA 2023
pH (SU)	4.00	3.98	22.57	± 0.1	GWMP
pH (SU)	7.00	6.91	22.48	± 0.1	GWMP
pH (SU)	10.00	10.01	22.29	± 0.1	GWMP
ORP (mV)	228.0	225.60	22.12	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.03	± 10% of standard	EPA 2023
	1.00	1.13		
	10.00	10.14		

Calibration Check					
Time Start	17:38	**Time Finish**	17:43		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,566.10	25.61	± 10% of standard	EPA 2023
pH (SU)	4.00	4.25	25.56	± 0.1	GWMP
pH (SU)	7.00	7.36	25.27	± 0.1	GWMP
pH (SU)	10.00	10.38	26.50	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.02	± 10% of standard	EPA 2023
	1.00	1.27		
	10.00	10.08		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 09/10/2025

Calibrated By: Natalie Piparo

Field Conditions: H 83, L 63

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1197755
Turbidity Meter	LaMotte 2020	15114111

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24014218	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24014218	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24014266	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24011537	01/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24014218	01/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	22490162	01/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	08:25	**Time Finish**	08:38		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	101.59	25.25	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,381.70	23.72	± 10% of standard	EPA 2023
pH (SU)	4.00	4.05	23.64	± 0.1	GWMP
pH (SU)	7.00	7.06	23.16	± 0.1	GWMP
pH (SU)	10.00	10.08	23.11	± 0.1	GWMP
ORP (mV)	228.0	225.20	23.74	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.04		
	10.00	10.16		

Calibration Check					
Time Start	16:21	**Time Finish**	16:25		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,650.30	28.42	± 10% of standard	EPA 2023
pH (SU)	4.00	4.21	28.42	± 0.1	GWMP
pH (SU)	7.00	7.30	28.40	± 0.1	GWMP
pH (SU)	10.00	10.27	28.74	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.23		
	10.00	10.12		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 09/11/2025

Calibrated By: Natalie Piparo

Field Conditions: H 84, L 63

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1197755
Turbidity Meter	LaMotte 2020	15114111

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24014218	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24014218	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24014266	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24011537	01/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24014218	01/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	22490162	01/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	08:19	**Time Finish**	08:35		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	102.52	22.28	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,530.70	21.99	± 10% of standard	EPA 2023
pH (SU)	4.00	3.99	22.08	± 0.1	GWMP
pH (SU)	7.00	7.02	21.63	± 0.1	GWMP
pH (SU)	10.00	10.01	21.51	± 0.1	GWMP
ORP (mV)	228.0	231.90	21.81	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.03	± 10% of standard	EPA 2023
	1.00	1.27		
	10.00	10.19		

Calibration Check					
Time Start	10:25	**Time Finish**	10:32		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,474.10	24.79	± 10% of standard	EPA 2023
pH (SU)	4.00	4.17	24.78	± 0.1	GWMP
pH (SU)	7.00	7.24	25.57	± 0.1	GWMP
pH (SU)	10.00	10.28	26.83	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.11		
	10.00	9.86		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 09/09/2025

Calibrated By: Shannon Northen

Field Conditions: 79°/ 69°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1202788
Turbidity Meter	LaMotte 2020	14754011

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24014218	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24014218	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24014266	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24011537	01/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24014218	01/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	22490162	01/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	08:30	**Time Finish**	08:44		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	99.04	22.21	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,518.00	22.23	± 10% of standard	EPA 2023
pH (SU)	4.00	4.05	22.27	± 0.1	GWMP
pH (SU)	7.00	7.05	22.60	± 0.1	GWMP
pH (SU)	10.00	10.01	22.60	± 0.1	GWMP
ORP (mV)	228.0	226.00	22.87	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.02	± 10% of standard	EPA 2023
	1.00	1.12		
	10.00	10.00		

Calibration Check					
Time Start	17:42	**Time Finish**	17:47		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,510.00	28.16	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	28.16	± 0.1	GWMP
pH (SU)	7.00	7.22	28.19	± 0.1	GWMP
pH (SU)	10.00	10.21	28.24	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.03	± 10% of standard	EPA 2023
	1.00	1.10		
	10.00	10.03		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 09/10/2025

Calibrated By: Shannon Northen

Field Conditions: 84°/ 64°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1202788
Turbidity Meter	LaMotte 2020	14754011

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24014218	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24014218	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24014266	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24011537	01/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24014218	01/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	22490162	01/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	08:15	**Time Finish**	08:32		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	102.40	21.45	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,422.00	21.31	± 10% of standard	EPA 2023
pH (SU)	4.00	3.97	21.31	± 0.1	GWMP
pH (SU)	7.00	7.01	21.46	± 0.1	GWMP
pH (SU)	10.00	10.01	21.35	± 0.1	GWMP
ORP (mV)	228.0	231.10	21.35	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.05	± 10% of standard	EPA 2023
	1.00	1.05		
	10.00	9.98		

Calibration Check					
Time Start	16:27	**Time Finish**	16:36		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,582.00	31.25	± 10% of standard	EPA 2023
pH (SU)	4.00	4.17	31.24	± 0.1	GWMP
pH (SU)	7.00	7.29	31.22	± 0.1	GWMP
pH (SU)	10.00	10.29	31.16	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.12		
	10.00	9.93		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 09/11/2025

Calibrated By: Shannon Northen

Field Conditions: 84°/ 63°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1202788
Turbidity Meter	LaMotte 2020	14754011

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24014218	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24014218	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24014266	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24011537	01/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24014218	01/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	22490162	01/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	08:18	**Time Finish**	08:34		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.70	22.85	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,479.00	22.24	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	22.19	± 0.1	GWMP
pH (SU)	7.00	7.06	21.84	± 0.1	GWMP
pH (SU)	10.00	10.04	21.53	± 0.1	GWMP
ORP (mV)	228.0	228.00	21.43	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	0.91		
	10.00	10.13		

Calibration Check					
Time Start	15:29	**Time Finish**	15:29		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,537.00	40.30	± 10% of standard	EPA 2023
pH (SU)	4.00	4.08	40.48	± 0.1	GWMP
pH (SU)	7.00	7.24	41.06	± 0.1	GWMP
pH (SU)	10.00	10.24	41.59	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	0.99		
	10.00	9.93		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 09/09/2025

Calibrated By: William Laaker

Field Conditions: 79/67 partly cloudy, 50%

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1182553
Turbidity Meter	LaMotte 2020	20680320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24014218	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24014218	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24014266	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24011537	01/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24014218	01/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	22490162	01/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	08:41	**Time Finish**	08:54		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.50	22.20	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,529.00	22.60	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	22.87	± 0.1	GWMP
pH (SU)	7.00	7.06	23.20	± 0.1	GWMP
pH (SU)	10.00	10.05	23.31	± 0.1	GWMP
ORP (mV)	228.0	225.70	22.97	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	0.90		
	10.00	9.13		

Calibration Check					
Time Start	16:43	**Time Finish**	16:52		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,503.00	25.44	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	25.32	± 0.1	GWMP
pH (SU)	7.00	7.10	25.26	± 0.1	GWMP
pH (SU)	10.00	10.20	25.63	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	1.04		
	10.00	9.66		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 09/10/2025

Calibrated By: William Laaker

Field Conditions: 83/63 sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1182553
Turbidity Meter	LaMotte 2020	20680320

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24014218	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24014218	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24014266	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24011537	01/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24014218	01/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	22490162	01/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	08:13	**Time Finish**	08:31		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	100.90	20.94	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,460.00	21.10	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	21.34	± 0.1	GWMP
pH (SU)	7.00	7.01	21.98	± 0.1	GWMP
pH (SU)	10.00	10.01	22.24	± 0.1	GWMP
ORP (mV)	228.0	230.30	22.08	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0.01	± 10% of standard	EPA 2023
	1.00	0.96		
	10.00	9.47		

Calibration Check					
Time Start	16:00	**Time Finish**	16:08		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,515.00	28.21	± 10% of standard	EPA 2023
pH (SU)	4.00	4.11	28.10	± 0.1	GWMP
pH (SU)	7.00	7.17	27.76	± 0.1	GWMP
pH (SU)	10.00	10.15	28.36	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	0.99		
	10.00	9.84		

Notes:

Start of Day:

End of Day:

Low-Flow Test Report:

Test Date / Time: 9/9/2025 10:28:44 AM
Project: September 2025 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 19 ft** **Total Depth: 29 ft** **Initial Depth to Water: 8.16 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 24 ft** **Estimated Total Volume Pumped: 8100 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 180 ml/min** **Final Draw Down: 1.68 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1197755**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
9/9/2025 10:28 AM	00:00	6.36 pH	24.13 °C	1,849.2 µS/cm	0.30 mg/L	2.63 NTU	6.2 mV	9.71 ft	0.95 PSU	180.00 ml/min
9/9/2025 10:33 AM	05:00	6.36 pH	23.93 °C	1,832.4 µS/cm	0.19 mg/L	2.49 NTU	-29.5 mV	9.76 ft	0.94 PSU	180.00 ml/min
9/9/2025 10:38 AM	10:00	6.36 pH	23.88 °C	1,833.1 µS/cm	0.14 mg/L	5.09 NTU	-30.1 mV	9.81 ft	0.94 PSU	180.00 ml/min
9/9/2025 10:43 AM	15:00	6.36 pH	23.87 °C	1,835.2 µS/cm	0.10 mg/L	6.08 NTU	-29.6 mV	9.83 ft	0.94 PSU	180.00 ml/min
9/9/2025 10:48 AM	20:00	6.37 pH	23.91 °C	1,848.3 µS/cm	0.08 mg/L	6.42 NTU	-29.1 mV	9.85 ft	0.95 PSU	180.00 ml/min
9/9/2025 10:53 AM	25:00	6.37 pH	23.96 °C	1,840.0 µS/cm	0.06 mg/L	5.81 NTU	-28.2 mV	9.87 ft	0.95 PSU	180.00 ml/min
9/9/2025 10:58 AM	30:00	6.37 pH	23.94 °C	1,840.2 µS/cm	0.06 mg/L	5.03 NTU	-27.4 mV	9.85 ft	0.95 PSU	180.00 ml/min
9/9/2025 11:03 AM	35:00	6.37 pH	23.92 °C	1,840.3 µS/cm	0.05 mg/L	4.71 NTU	-26.7 mV	9.86 ft	0.95 PSU	180.00 ml/min
9/9/2025 11:08 AM	40:00	6.38 pH	23.90 °C	1,843.9 µS/cm	0.05 mg/L	4.13 NTU	-26.0 mV	9.84 ft	0.95 PSU	180.00 ml/min
9/9/2025 11:13 AM	45:00	6.38 pH	23.92 °C	1,846.9 µS/cm	0.04 mg/L	3.74 NTU	-25.4 mV	9.84 ft	0.95 PSU	180.00 ml/min

Samples

Sample ID:	Description:
MCM-12	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/9/2025 10:54:19 AM
Project: September 2025 McManus CCR Event
Operator Name: Shannon Northen

Location Name: MCM-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.11 ft** **Total Depth: 28.11 ft** **Initial Depth to Water: 6.9 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 23.11 ft** **Estimated Total Volume Pumped: 5400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: -0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1202788**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10	
9/9/2025 10:54 AM	00:00	6.461 pH	25.06 °C	14,123 µS/cm	0.239 mg/L	1.280 NTU	-64.0 mV	6.950 ft	8.294 PSU	180.0 ml/min
9/9/2025 10:59 AM	05:00	6.474 pH	25.12 °C	14,331 µS/cm	0.184 mg/L	1.080 NTU	-108.4 mV	6.900 ft	8.427 PSU	180.0 ml/min
9/9/2025 11:04 AM	10:00	6.486 pH	24.72 °C	14,468 µS/cm	0.182 mg/L	1.040 NTU	-83.4 mV	6.900 ft	8.513 PSU	240.0 ml/min
9/9/2025 11:09 AM	15:00	6.495 pH	24.58 °C	14,644 µS/cm	0.160 mg/L	1.120 NTU	-86.3 mV	6.900 ft	8.624 PSU	240.0 ml/min
9/9/2025 11:14 AM	20:00	6.503 pH	24.58 °C	14,704 µS/cm	0.144 mg/L	1.090 NTU	-88.2 mV	6.900 ft	8.663 PSU	240.0 ml/min
9/9/2025 11:19 AM	25:00	6.508 pH	24.49 °C	14,725 µS/cm	0.153 mg/L	0.940 NTU	-89.1 mV	6.850 ft	8.676 PSU	240.0 ml/min

Samples

Sample ID:	Description:
MCM-14	Metals, Inorganics, TDS, Radium
FD-01	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/9/2025 11:04:42 AM
Project: September 2025 McManus CCR Event
Operator Name: William Laaker

Location Name: MCM-18 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.86 ft** **Total Depth: 27.86 ft** **Initial Depth to Water: 4.88 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.86 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:
Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/9/2025 11:04 AM	00:00	4.269 pH	23.68 °C	3,323 µS/cm	0.256 mg/L	0.200 NTU	74.5 mV	5.000 ft	1.763 PSU	200.0 ml/min
9/9/2025 11:09 AM	05:00	4.278 pH	23.50 °C	3,259 µS/cm	0.215 mg/L	0.070 NTU	69.9 mV	4.990 ft	1.727 PSU	200.0 ml/min
9/9/2025 11:14 AM	10:00	4.284 pH	23.45 °C	3,200 µS/cm	0.176 mg/L	0.030 NTU	69.9 mV	4.950 ft	1.693 PSU	200.0 ml/min
9/9/2025 11:19 AM	15:00	4.287 pH	23.41 °C	3,174 µS/cm	0.157 mg/L	0.120 NTU	69.0 mV	4.920 ft	1.679 PSU	200.0 ml/min
9/9/2025 11:24 AM	20:00	4.291 pH	23.41 °C	3,121 µS/cm	0.145 mg/L	0.030 NTU	68.9 mV	4.880 ft	1.649 PSU	200.0 ml/min

Samples

Sample ID:	Description:
MCM-18	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/9/2025 2:23:11 PM
Project: September 2025 McManus CCR Event
Operator Name: William Laaker

Location Name: MCM-19 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.32 ft** **Total Depth: 28.32 ft** **Initial Depth to Water: 5.07 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.32 ft** **Estimated Total Volume Pumped: 4200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.68 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/9/2025 2:23 PM	00:00	4.926 pH	23.05 °C	18,355 µS/cm	0.537 mg/L	2.950 NTU	103.4 mV	5.500 ft	11.01 PSU	210.0 ml/min
9/9/2025 2:28 PM	05:00	4.933 pH	22.94 °C	18,127 µS/cm	0.456 mg/L	1.940 NTU	97.7 mV	5.550 ft	10.86 PSU	210.0 ml/min
9/9/2025 2:33 PM	10:00	4.938 pH	22.88 °C	18,134 µS/cm	0.378 mg/L	1.770 NTU	93.8 mV	5.620 ft	10.87 PSU	210.0 ml/min
9/9/2025 2:38 PM	15:00	4.941 pH	22.87 °C	18,157 µS/cm	0.333 mg/L	1.660 NTU	90.7 mV	5.680 ft	10.88 PSU	210.0 ml/min
9/9/2025 2:43 PM	20:00	4.944 pH	22.93 °C	18,134 µS/cm	0.303 mg/L	0.890 NTU	88.3 mV	5.750 ft	10.87 PSU	210.0 ml/min

Samples

Sample ID:	Description:
MCM-19	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/9/2025 2:23:26 PM
Project: September 2025 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 6.35 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 5500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.58 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1197755**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
9/9/2025 2:23 PM	00:00	6.64 pH	25.25 °C	19,799 µS/cm	0.39 mg/L	0.55 NTU	-148.3 mV	6.64 ft	11.97 PSU	220.00 ml/min
9/9/2025 2:28 PM	05:00	6.66 pH	24.96 °C	19,959 µS/cm	0.22 mg/L	0.14 NTU	-231.0 mV	6.68 ft	12.08 PSU	220.00 ml/min
9/9/2025 2:33 PM	10:00	6.67 pH	24.93 °C	19,799 µS/cm	0.17 mg/L	0.12 NTU	-138.3 mV	6.73 ft	11.97 PSU	220.00 ml/min
9/9/2025 2:38 PM	15:00	6.69 pH	24.97 °C	19,756 µS/cm	0.15 mg/L	0.04 NTU	-138.1 mV	6.78 ft	11.94 PSU	220.00 ml/min
9/9/2025 2:43 PM	20:00	6.70 pH	24.91 °C	19,677 µS/cm	0.14 mg/L	0.02 NTU	-138.1 mV	6.81 ft	11.89 PSU	220.00 ml/min
9/9/2025 2:48 PM	25:00	6.72 pH	24.82 °C	19,598 µS/cm	0.14 mg/L	0.05 NTU	-139.2 mV	6.93 ft	11.84 PSU	220.00 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Inorganics, TDS, Radium, Iron, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/9/2025 2:52:07 PM
Project: September 2025 McManus CCR Event
Operator Name: Shannon Northen

Location Name: MCM-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.32 ft** **Total Depth: 27.32 ft** **Initial Depth to Water: 3.44 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.32 ft** **Estimated Total Volume Pumped: 5600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 280 ml/min** **Final Draw Down: 0.18 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1202788**

Test Notes:
Pre-purged 8.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10	
9/9/2025 2:52 PM	00:00	5.037 pH	24.22 °C	128.3 µS/cm	0.143 mg/L	3.400 NTU	18.7 mV	3.550 ft	0.060 PSU	280.0 ml/min
9/9/2025 2:57 PM	05:00	5.027 pH	24.17 °C	127.9 µS/cm	0.151 mg/L	3.380 NTU	27.7 mV	3.560 ft	0.060 PSU	280.0 ml/min
9/9/2025 3:02 PM	10:00	5.024 pH	24.17 °C	127.5 µS/cm	0.141 mg/L	2.690 NTU	13.2 mV	3.600 ft	0.060 PSU	280.0 ml/min
9/9/2025 3:07 PM	15:00	5.016 pH	24.21 °C	127.8 µS/cm	0.137 mg/L	2.660 NTU	16.8 mV	3.620 ft	0.060 PSU	280.0 ml/min
9/9/2025 3:12 PM	20:00	5.011 pH	24.37 °C	127.4 µS/cm	0.137 mg/L	2.440 NTU	19.6 mV	3.620 ft	0.060 PSU	280.0 ml/min

Samples

Sample ID:	Description:
MCM-01	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/9/2025 3:37:41 PM
Project: September 2025 McManus CCR Event
Operator Name: William Laaker

Location Name: MCM-20 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 13.05 ft** **Total Depth: 23.05 ft** **Initial Depth to Water: 7.02 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 18.05 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 1.53 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:
Prepurged 1 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/9/2025 3:37 PM	00:00	3.675 pH	24.29 °C	14,369 µS/cm	0.254 mg/L	0.060 NTU	145.5 mV	8.360 ft	8.449 PSU	200.0 ml/min
9/9/2025 3:42 PM	05:00	3.670 pH	24.30 °C	14,398 µS/cm	0.206 mg/L	0.100 NTU	140.0 mV	8.420 ft	8.467 PSU	200.0 ml/min
9/9/2025 3:47 PM	10:00	3.670 pH	24.31 °C	14,311 µS/cm	0.184 mg/L	0.190 NTU	137.7 mV	8.450 ft	8.412 PSU	200.0 ml/min
9/9/2025 3:52 PM	15:00	3.671 pH	24.46 °C	14,187 µS/cm	0.167 mg/L	0.100 NTU	136.1 mV	8.500 ft	8.333 PSU	200.0 ml/min
9/9/2025 3:57 PM	20:00	3.666 pH	24.39 °C	14,168 µS/cm	0.160 mg/L	0.050 NTU	133.5 mV	8.550 ft	8.321 PSU	200.0 ml/min

Samples

Sample ID:	Description:
MCM-20	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/9/2025 4:10:29 PM
Project: September 2025 McManus CCR Event
Operator Name: Shannon Northen

Location Name: MCM-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.6 ft** **Total Depth: 26.6 ft** **Initial Depth to Water: 7.98 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 21.6 ft** **Estimated Total Volume Pumped: 8400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 280 ml/min** **Final Draw Down: 0.24 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1202788**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10	
9/9/2025 4:10 PM	00:00	4.969 pH	24.86 °C	55.83 µS/cm	0.753 mg/L	1.950 NTU	74.4 mV	8.100 ft	0.025 PSU	280.0 ml/min
9/9/2025 4:15 PM	05:00	5.350 pH	24.49 °C	125.9 µS/cm	0.254 mg/L	2.360 NTU	63.1 mV	8.110 ft	0.059 PSU	280.0 ml/min
9/9/2025 4:20 PM	10:00	5.366 pH	24.47 °C	136.0 µS/cm	0.191 mg/L	2.590 NTU	58.8 mV	8.150 ft	0.064 PSU	280.0 ml/min
9/9/2025 4:25 PM	15:00	5.360 pH	24.45 °C	139.9 µS/cm	0.165 mg/L	2.440 NTU	56.3 mV	8.150 ft	0.066 PSU	280.0 ml/min
9/9/2025 4:30 PM	20:00	5.353 pH	24.45 °C	139.6 µS/cm	0.153 mg/L	2.320 NTU	57.8 mV	8.180 ft	0.066 PSU	280.0 ml/min
9/9/2025 4:35 PM	25:00	5.348 pH	24.33 °C	139.2 µS/cm	0.162 mg/L	2.310 NTU	54.8 mV	8.200 ft	0.066 PSU	280.0 ml/min
9/9/2025 4:40 PM	30:00	5.330 pH	24.31 °C	136.8 µS/cm	0.150 mg/L	2.320 NTU	55.0 mV	8.220 ft	0.065 PSU	280.0 ml/min

Samples

Sample ID:	Description:
MCM-15	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/9/2025 4:10:31 PM
Project: September 2025 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-05 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.05 ft** **Total Depth: 28.05 ft** **Initial Depth to Water: 6.84 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 23.05 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.28 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1197755**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
9/9/2025 4:10 PM	00:00	6.85 pH	26.78 °C	15,601 µS/cm	0.32 mg/L	0.32 NTU	-196.4 mV	7.00 ft	9.24 PSU	200.00 ml/min
9/9/2025 4:15 PM	05:00	6.85 pH	25.98 °C	16,432 µS/cm	0.25 mg/L	0.11 NTU	-185.9 mV	7.03 ft	9.78 PSU	200.00 ml/min
9/9/2025 4:20 PM	10:00	6.85 pH	25.86 °C	16,478 µS/cm	0.20 mg/L	0.28 NTU	-183.4 mV	7.06 ft	9.81 PSU	200.00 ml/min
9/9/2025 4:25 PM	15:00	6.85 pH	25.86 °C	16,545 µS/cm	0.18 mg/L	0.22 NTU	-183.0 mV	7.09 ft	9.85 PSU	200.00 ml/min
9/9/2025 4:30 PM	20:00	6.85 pH	25.79 °C	16,491 µS/cm	0.17 mg/L	0.15 NTU	-182.7 mV	7.11 ft	9.81 PSU	200.00 ml/min
9/9/2025 4:35 PM	25:00	6.85 pH	25.96 °C	16,411 µS/cm	0.15 mg/L	0.13 NTU	-182.6 mV	7.12 ft	9.76 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-05	Metals, Inorganics, TDS, Radium, Iron, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/10/2025 10:03:00 AM
Project: September 2025 McManus Interim Performance Sampling
Operator Name: Natalie Piparo

Location Name: INW-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 4.16 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 5500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1197755**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
9/10/2025 10:03 AM	00:00	6.41 pH	25.50 °C	22,110 µS/cm	0.47 mg/L	0.18 NTU	-109.2 mV	4.44 ft	13.50 PSU	220.00 ml/min
9/10/2025 10:08 AM	05:00	6.42 pH	24.91 °C	22,491 µS/cm	0.27 mg/L	0.24 NTU	-193.5 mV	4.45 ft	13.76 PSU	220.00 ml/min
9/10/2025 10:13 AM	10:00	6.43 pH	24.85 °C	22,588 µS/cm	0.18 mg/L	0.20 NTU	-115.4 mV	4.42 ft	13.82 PSU	220.00 ml/min
9/10/2025 10:18 AM	15:00	6.44 pH	24.77 °C	22,640 µS/cm	0.14 mg/L	0.19 NTU	-123.0 mV	4.38 ft	13.85 PSU	220.00 ml/min
9/10/2025 10:23 AM	20:00	6.46 pH	24.80 °C	22,589 µS/cm	0.11 mg/L	0.12 NTU	-130.6 mV	4.33 ft	13.82 PSU	220.00 ml/min
9/10/2025 10:28 AM	25:00	6.47 pH	24.89 °C	22,528 µS/cm	0.09 mg/L	0.09 NTU	-137.1 mV	4.27 ft	13.78 PSU	220.00 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Sulfide
FD-01	Metals, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/10/2025 10:08:21 AM
Project: September 2025 McManus CCR Event
Operator Name: William Laaker

Location Name: MCM-16 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.39 ft** **Total Depth: 28.39 ft** **Initial Depth to Water: 8.64 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 23.39 ft** **Estimated Total Volume Pumped: 4400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/10/2025 10:08 AM	00:00	4.783 pH	22.13 °C	99.69 µS/cm	0.612 mg/L	0.040 NTU	109.6 mV	8.750 ft	0.047 PSU	220.0 ml/min
9/10/2025 10:13 AM	05:00	4.742 pH	22.11 °C	99.07 µS/cm	0.262 mg/L	0.040 NTU	91.9 mV	8.740 ft	0.046 PSU	220.0 ml/min
9/10/2025 10:18 AM	10:00	4.743 pH	22.10 °C	98.81 µS/cm	0.205 mg/L	0.060 NTU	106.4 mV	8.740 ft	0.046 PSU	220.0 ml/min
9/10/2025 10:23 AM	15:00	4.739 pH	22.11 °C	97.86 µS/cm	0.191 mg/L	0.120 NTU	81.4 mV	8.740 ft	0.046 PSU	220.0 ml/min
9/10/2025 10:28 AM	20:00	4.734 pH	22.11 °C	97.81 µS/cm	0.186 mg/L	0.030 NTU	78.1 mV	8.740 ft	0.046 PSU	220.0 ml/min

Samples

Sample ID:	Description:
MCM-16	Metals, Inorganics, TDS, Radium
FD-02	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/10/2025 10:11:07 AM
Project: September 2025 McManus CCR Event
Operator Name: Shannon Northen

Location Name: DPZ-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.46 ft** **Total Depth: 43.46 ft** **Initial Depth to Water: 6.23 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 38.46 ft** **Estimated Total Volume Pumped: 4200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: -0.12 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1202788**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10	
9/10/2025 10:11 AM	00:00	7.160 pH	25.28 °C	13,607 µS/cm	0.149 mg/L	0.760 NTU	-299.3 mV	6.230 ft	7.967 PSU	210.0 ml/min
9/10/2025 10:16 AM	05:00	7.156 pH	25.14 °C	13,734 µS/cm	0.127 mg/L	0.770 NTU	-305.7 mV	6.200 ft	8.047 PSU	210.0 ml/min
9/10/2025 10:21 AM	10:00	7.162 pH	25.06 °C	13,823 µS/cm	0.111 mg/L	0.720 NTU	-307.7 mV	6.180 ft	8.104 PSU	210.0 ml/min
9/10/2025 10:26 AM	15:00	7.164 pH	25.09 °C	13,861 µS/cm	0.101 mg/L	1.350 NTU	-308.3 mV	6.110 ft	8.128 PSU	210.0 ml/min
9/10/2025 10:31 AM	20:00	7.167 pH	25.02 °C	13,878 µS/cm	0.092 mg/L	0.790 NTU	-308.4 mV	6.110 ft	8.139 PSU	210.0 ml/min

Samples

Sample ID:	Description:
DPZ-02	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/10/2025 11:37:26 AM
Project: September 2025 McManus Interim Performance Sampling
Operator Name: Natalie Piparo

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.36 ft** **Total Depth: 25.36 ft** **Initial Depth to Water: 3.17 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 20.36 ft** **Estimated Total Volume Pumped: 5750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: -0.22 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1197755**

Test Notes:
Prepurged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
9/10/2025 11:37 AM	00:00	6.58 pH	32.66 °C	18,300 µS/cm	0.06 mg/L	0.04 NTU	-191.8 mV	3.10 ft	10.99 PSU	230.00 ml/min
9/10/2025 11:42 AM	05:00	6.45 pH	26.14 °C	20,669 µS/cm	0.09 mg/L	0.08 NTU	-258.4 mV	3.06 ft	12.55 PSU	230.00 ml/min
9/10/2025 11:47 AM	10:00	6.46 pH	25.73 °C	20,810 µS/cm	0.09 mg/L	0.27 NTU	-182.0 mV	3.04 ft	12.64 PSU	230.00 ml/min
9/10/2025 11:52 AM	15:00	6.47 pH	25.68 °C	20,653 µS/cm	0.08 mg/L	0.31 NTU	-181.1 mV	3.01 ft	12.54 PSU	230.00 ml/min
9/10/2025 11:57 AM	20:00	6.48 pH	25.59 °C	20,490 µS/cm	0.08 mg/L	0.10 NTU	-180.1 mV	2.99 ft	12.43 PSU	230.00 ml/min
9/10/2025 12:02 PM	25:00	6.51 pH	25.55 °C	20,355 µS/cm	0.08 mg/L	0.12 NTU	-179.9 mV	2.95 ft	12.34 PSU	230.00 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/10/2025 11:40:20 AM
Project: September 2025 McManus CCR Event
Operator Name: William Laaker

Location Name: MCM-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.35 ft** **Total Depth: 27.35 ft** **Initial Depth to Water: 3.94 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.35 ft** **Estimated Total Volume Pumped: 8000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.24 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/10/2025 11:40 AM	00:00	5.802 pH	22.45 °C	180.7 µS/cm	0.197 mg/L	2.450 NTU	-17.0 mV	4.170 ft	0.086 PSU	200.0 ml/min
9/10/2025 11:45 AM	05:00	5.652 pH	22.37 °C	168.1 µS/cm	0.161 mg/L	0.600 NTU	5.7 mV	4.170 ft	0.080 PSU	200.0 ml/min
9/10/2025 11:50 AM	10:00	5.583 pH	22.38 °C	157.1 µS/cm	0.139 mg/L	0.100 NTU	12.8 mV	4.180 ft	0.074 PSU	200.0 ml/min
9/10/2025 11:55 AM	15:00	5.502 pH	22.34 °C	150.5 µS/cm	0.127 mg/L	0.130 NTU	19.1 mV	4.180 ft	0.071 PSU	200.0 ml/min
9/10/2025 12:00 PM	20:00	5.427 pH	22.42 °C	145.7 µS/cm	0.118 mg/L	0.060 NTU	24.4 mV	4.180 ft	0.069 PSU	200.0 ml/min
9/10/2025 12:05 PM	25:00	5.384 pH	22.42 °C	143.3 µS/cm	0.112 mg/L	0.030 NTU	-0.0 mV	4.170 ft	0.068 PSU	200.0 ml/min
9/10/2025 12:10 PM	30:00	5.373 pH	22.42 °C	142.9 µS/cm	0.104 mg/L	0.180 NTU	1.0 mV	4.170 ft	0.068 PSU	200.0 ml/min
9/10/2025 12:15 PM	35:00	5.333 pH	22.44 °C	141.6 µS/cm	0.096 mg/L	0.170 NTU	30.5 mV	4.180 ft	0.067 PSU	200.0 ml/min
9/10/2025 12:20 PM	40:00	5.297 pH	22.42 °C	139.3 µS/cm	0.091 mg/L	0.090 NTU	9.9 mV	4.180 ft	0.066 PSU	200.0 ml/min

Samples

Sample ID:	Description:
MCM-02	Metals, Inorganics, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 9/10/2025 11:53:35 AM
Project: September 2025 McManus Interim Performance Sampling
Operator Name: Shannon Northen

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.03 ft** **Total Depth: 30.03 ft** **Initial Depth to Water: 3.08 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.53 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: -0.18 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1202788**

Test Notes:
Pre-Purged 2.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10	
9/10/2025 11:53 AM	00:00	7.271 pH	26.24 °C	14,022 µS/cm	0.099 mg/L	1.340 NTU	-331.7 mV	3.010 ft	8.232 PSU	240.0 ml/min
9/10/2025 11:58 AM	05:00	7.131 pH	25.69 °C	14,042 µS/cm	0.081 mg/L	1.410 NTU	-351.2 mV	3.000 ft	8.244 PSU	240.0 ml/min
9/10/2025 12:03 PM	10:00	7.132 pH	25.44 °C	14,004 µS/cm	0.076 mg/L	1.360 NTU	-326.1 mV	3.000 ft	8.219 PSU	240.0 ml/min
9/10/2025 12:08 PM	15:00	7.141 pH	25.40 °C	14,006 µS/cm	0.064 mg/L	1.120 NTU	-325.4 mV	2.950 ft	8.220 PSU	240.0 ml/min
9/10/2025 12:13 PM	20:00	7.149 pH	25.39 °C	13,952 µS/cm	0.060 mg/L	1.120 NTU	-325.2 mV	2.900 ft	8.186 PSU	240.0 ml/min
9/10/2025 12:18 PM	25:00	7.159 pH	25.35 °C	13,874 µS/cm	0.055 mg/L	1.000 NTU	-325.3 mV	2.900 ft	8.137 PSU	240.0 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/10/2025 2:46:30 PM
Project: September 2025 McManus CCR Event
Operator Name: William Laaker

Location Name: MCM-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14 ft** **Total Depth: 24 ft** **Initial Depth to Water: 5.19 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19 ft** **Estimated Total Volume Pumped: 4500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 180 ml/min** **Final Draw Down: 1.27 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 10	+/- 1000 %	+/- 0.3	+/- 1000 %	
9/10/2025 2:46 PM	00:00	5.295 pH	26.93 °C	537.1 µS/cm	0.243 mg/L	0.810 NTU	67.5 mV	6.400 ft	0.262 PSU	180.0 ml/min
9/10/2025 2:51 PM	05:00	5.280 pH	26.95 °C	485.5 µS/cm	0.205 mg/L	0.590 NTU	71.6 mV	6.440 ft	0.236 PSU	180.0 ml/min
9/10/2025 2:56 PM	10:00	5.280 pH	26.86 °C	481.8 µS/cm	0.194 mg/L	0.280 NTU	71.4 mV	6.460 ft	0.234 PSU	180.0 ml/min
9/10/2025 3:01 PM	15:00	5.283 pH	27.00 °C	491.9 µS/cm	0.185 mg/L	0.220 NTU	72.6 mV	6.440 ft	0.239 PSU	180.0 ml/min
9/10/2025 3:06 PM	20:00	5.286 pH	26.89 °C	486.8 µS/cm	0.164 mg/L	0.320 NTU	73.2 mV	6.450 ft	0.237 PSU	180.0 ml/min
9/10/2025 3:11 PM	25:00	5.290 pH	26.76 °C	485.1 µS/cm	0.154 mg/L	0.180 NTU	73.6 mV	6.460 ft	0.236 PSU	180.0 ml/min

Samples

Sample ID:	Description:
MCM-11	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/10/2025 2:55:35 PM
Project: September 2025 McManus CCR Event
Operator Name: Shannon Northen

Location Name: MCM-04 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.57 ft** **Total Depth: 28.57 ft** **Initial Depth to Water: 7.75 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.57 ft** **Estimated Total Volume Pumped: 6900 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.45 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1202788**

Test Notes:
Pre-purged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10	
9/10/2025 2:55 PM	00:00	6.101 pH	25.07 °C	188.6 µS/cm	0.142 mg/L	1.580 NTU	40.0 mV	8.100 ft	0.090 PSU	230.0 ml/min
9/10/2025 3:00 PM	05:00	5.583 pH	23.35 °C	164.7 µS/cm	0.124 mg/L	1.390 NTU	57.1 mV	8.100 ft	0.078 PSU	230.0 ml/min
9/10/2025 3:05 PM	10:00	5.510 pH	23.01 °C	161.0 µS/cm	0.116 mg/L	1.690 NTU	62.4 mV	8.120 ft	0.076 PSU	230.0 ml/min
9/10/2025 3:10 PM	15:00	5.482 pH	22.88 °C	159.8 µS/cm	0.109 mg/L	1.670 NTU	63.2 mV	8.140 ft	0.076 PSU	230.0 ml/min
9/10/2025 3:15 PM	20:00	5.451 pH	23.05 °C	164.2 µS/cm	0.103 mg/L	1.540 NTU	64.0 mV	8.160 ft	0.078 PSU	230.0 ml/min
9/10/2025 3:20 PM	25:00	5.429 pH	23.05 °C	163.8 µS/cm	0.093 mg/L	1.790 NTU	64.2 mV	8.180 ft	0.078 PSU	230.0 ml/min
9/10/2025 3:25 PM	30:00	5.421 pH	23.02 °C	165.1 µS/cm	0.094 mg/L	1.550 NTU	64.2 mV	8.200 ft	0.078 PSU	230.0 ml/min

Samples

Sample ID:	Description:
MCM-04	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/10/2025 3:10:31 PM
Project: September 2025 McManus Interim Performance Sampling
Operator Name: Natalie Piparo

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 4.09 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 5250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.55 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1197755**

Test Notes:
Prepurged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
9/10/2025 3:10 PM	00:00	7.20 pH	30.22 °C	10,556 µS/cm	0.27 mg/L	0.94 NTU	-183.6 mV	4.35 ft	6.06 PSU	210.00 ml/min
9/10/2025 3:15 PM	05:00	7.16 pH	25.56 °C	11,025 µS/cm	0.15 mg/L	0.86 NTU	-309.7 mV	4.42 ft	6.35 PSU	210.00 ml/min
9/10/2025 3:20 PM	10:00	7.16 pH	25.14 °C	11,099 µS/cm	0.13 mg/L	1.05 NTU	-317.5 mV	4.49 ft	6.39 PSU	210.00 ml/min
9/10/2025 3:25 PM	15:00	7.16 pH	25.00 °C	10,983 µS/cm	0.11 mg/L	0.88 NTU	-342.5 mV	4.53 ft	6.32 PSU	210.00 ml/min
9/10/2025 3:30 PM	20:00	7.17 pH	24.87 °C	10,902 µS/cm	0.11 mg/L	0.60 NTU	-356.1 mV	4.60 ft	6.27 PSU	210.00 ml/min
9/10/2025 3:35 PM	25:00	7.18 pH	24.77 °C	10,850 µS/cm	0.10 mg/L	0.56 NTU	-366.4 mV	4.64 ft	6.24 PSU	210.00 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/11/2025 9:21:54 AM
Project: September 2025 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 13.75 ft** **Total Depth: 23.75 ft** **Initial Depth to Water: 6.99 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 18.75 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.46 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1197755**

Test Notes:
Prepurged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000	+/- 5 %	+/- 10 %	+/- 5	+/- 1000	+/- 0.3	+/- 1000	
9/11/2025 9:21 AM	00:00	6.44 pH	25.70 °C	10,730 µS/cm	0.40 mg/L	1.16 NTU	-146.9 mV	7.52 ft	6.17 PSU	200.00 ml/min
9/11/2025 9:26 AM	05:00	6.44 pH	25.78 °C	11,015 µS/cm	0.28 mg/L	1.29 NTU	-224.7 mV	7.52 ft	6.34 PSU	200.00 ml/min
9/11/2025 9:31 AM	10:00	6.44 pH	25.79 °C	11,107 µS/cm	0.22 mg/L	0.66 NTU	-130.3 mV	7.51 ft	6.40 PSU	200.00 ml/min
9/11/2025 9:36 AM	15:00	6.44 pH	25.77 °C	11,232 µS/cm	0.19 mg/L	0.40 NTU	-128.7 mV	7.48 ft	6.48 PSU	200.00 ml/min
9/11/2025 9:41 AM	20:00	6.44 pH	25.77 °C	11,335 µS/cm	0.18 mg/L	0.56 NTU	-127.0 mV	7.47 ft	6.54 PSU	200.00 ml/min
9/11/2025 9:46 AM	25:00	6.44 pH	25.72 °C	11,398 µS/cm	0.16 mg/L	0.33 NTU	-125.9 mV	7.45 ft	6.58 PSU	200.00 ml/min

Samples

Sample ID:	Description:
MCM-07	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/11/2025 9:42:23 AM
Project: September 2025 McManus CCR Event
Operator Name: Shannon Northen

Location Name: MCM-17 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.44 ft** **Total Depth: 27.44 ft** **Initial Depth to Water: 8.77 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.44 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.14 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1202788**

Test Notes:
Pre-purged 8 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10	
9/11/2025 9:42 AM	00:00	6.279 pH	25.07 °C	9,179 µS/cm	0.074 mg/L	6.390 NTU	-123.7 mV	8.700 ft	5.211 PSU	200.0 ml/min
9/11/2025 9:47 AM	05:00	6.303 pH	25.10 °C	9,257 µS/cm	0.071 mg/L	6.040 NTU	-107.2 mV	8.700 ft	5.259 PSU	200.0 ml/min
9/11/2025 9:52 AM	10:00	6.336 pH	25.07 °C	9,301 µS/cm	0.071 mg/L	5.570 NTU	-103.3 mV	8.700 ft	5.286 PSU	200.0 ml/min
9/11/2025 9:57 AM	15:00	6.368 pH	25.06 °C	9,338 µS/cm	0.070 mg/L	5.510 NTU	-99.7 mV	8.690 ft	5.308 PSU	200.0 ml/min
9/11/2025 10:02 AM	20:00	6.387 pH	25.16 °C	9,391 µS/cm	0.066 mg/L	4.960 NTU	-96.7 mV	8.650 ft	5.341 PSU	200.0 ml/min
9/11/2025 10:07 AM	25:00	6.423 pH	25.13 °C	9,415 µS/cm	0.072 mg/L	4.550 NTU	-94.5 mV	8.630 ft	5.355 PSU	200.0 ml/min

Samples

Sample ID:	Description:
MCM-17	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 03/10/2026

Calibrated By: Jay Siewert

Field Conditions: 86°/63°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1,306,331
Turbidity Meter	Hach	25100D000278

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24021711	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24022784	09/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24021650	09/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24020598	09/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	09:47	**Time Finish**	10:04		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	101.80	21.55	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,635.00	21.83	± 10% of standard	EPA 2023
pH (SU)	4.00	4.12	22.12	± 0.1	GWMP
pH (SU)	7.00	7.10	22.11	± 0.1	GWMP
pH (SU)	10.00	9.99	22.39	± 0.1	GWMP
ORP (mV)	228.0	217.50	22.73	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	10.20	± 10% of standard	EPA 2023
	20.00	20.70		
	100.00	98.60		
	800.00	781.00		

Calibration Check					
Time Start	17:46	**Time Finish**	17:54		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,601.00	26.86	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	26.88	± 0.1	GWMP
pH (SU)	7.00	7.11	27.16	± 0.1	GWMP
pH (SU)	10.00	10.12	28.13	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	10.20	± 10% of standard	EPA 2023
	20.00	20.10		
	100.00	98.50		
	800.00	789.00		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 03/11/2026

Calibrated By: Jay Siewert

Field Conditions: 89°/62°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1,306,331
Turbidity Meter	Hach	25100D000278

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24021711	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24022784	09/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24021650	09/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24020598	09/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	08:25	Time Finish	08:36		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	97.01	19.04	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,622.00	19.09	± 10% of standard	EPA 2023
pH (SU)	4.00	3.99	19.19	± 0.1	GWMP
pH (SU)	7.00	6.96	19.81	± 0.1	GWMP
pH (SU)	10.00	10.00	20.33	± 0.1	GWMP
ORP (mV)	228.0	231.80	20.69	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	10.40	± 10% of standard	EPA 2023
	20.00	21.00		
	100.00	101.00		
	800.00	784.00		

Calibration Check					
Time Start	17:10	Time Finish	17:22		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,497.00	28.67	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	28.66	± 0.1	GWMP
pH (SU)	7.00	7.11	28.72	± 0.1	GWMP
pH (SU)	10.00	10.09	29.63	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	9.92	± 10% of standard	EPA 2023
	20.00	19.30		
	100.00	106.00		
	800.00	772.00		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 03/12/2026

Calibrated By: Jay Siewert

Field Conditions: 76°/50°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1,306,331
Turbidity Meter	Hach	25100D000278

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24021711	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24022784	09/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24021650	09/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24020598	09/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	07:25	**Time Finish**	07:37		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	103.10	20.64	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,480.00	20.63	± 10% of standard	EPA 2023
pH (SU)	4.00	3.98	20.97	± 0.1	GWMP
pH (SU)	7.00	7.03	21.67	± 0.1	GWMP
pH (SU)	10.00	10.14	21.93	± 0.1	GWMP
ORP (mV)	228.0	225.20	21.85	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10.00	9.08	± 10% of standard	EPA 2023
	20.00	20.00		
	100.00	98.90		
	800.00	797.00		

Calibration Check					
Time Start	09:43	**Time Finish**	09:50		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,447.00	22.83	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	22.86	± 0.1	GWMP
pH (SU)	7.00	7.07	22.72	± 0.1	GWMP
pH (SU)	10.00	10.10	22.20	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10.00	10.40	± 10% of standard	EPA 2023
	20.00	20.70		
	100.00	98.90		
	800.00	783.00		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 03/10/2026

Calibrated By: Natalie Piparo

Field Conditions: H 85, L 63

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1,197,755
Turbidity Meter	Hach	25100D000152

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24021711	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24022784	09/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24021650	09/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24020598	09/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	09:50	Time Finish	10:08		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	106.80	19.33	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,490.00	20.02	± 10% of standard	EPA 2023
pH (SU)	4.00	4.31	20.19	± 0.1	GWMP
pH (SU)	7.00	7.29	20.23	± 0.1	GWMP
pH (SU)	10.00	10.27	20.27	± 0.1	GWMP
ORP (mV)	228.0	228.40	20.30	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	10.30	± 10% of standard	EPA 2023
	20.00	20.20		
	100.00	98.50		
	800.00	793.00		

Calibration Check					
Time Start	17:13	Time Finish	17:51		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,488.00	28.35	± 10% of standard	EPA 2023
pH (SU)	4.00	3.95	28.01	± 0.1	GWMP
pH (SU)	7.00	7.03	28.45	± 0.1	GWMP
pH (SU)	10.00	10.15	29.00	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	10.10	± 10% of standard	EPA 2023
	20.00	20.10		
	100.00	100.30		
	800.00	802.00		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 03/11/2026

Calibrated By: Natalie Piparo

Field Conditions: H 88, L 62

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1,197,755
Turbidity Meter	Hach	25100D000152

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24021711	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24022784	09/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24021650	09/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24020598	09/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	08:24	Time Finish	08:56		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	96.88	19.80	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,478.00	20.02	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	20.48	± 0.1	GWMP
pH (SU)	7.00	7.11	20.72	± 0.1	GWMP
pH (SU)	10.00	10.07	20.66	± 0.1	GWMP
ORP (mV)	228.0	228.80	20.31	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	10.10	± 10% of standard	EPA 2023
	20.00	19.90		
	100.00	98.30		
	800.00	795.00		

Calibration Check					
Time Start	17:31	Time Finish	17:51		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,510.00	27.82	± 10% of standard	EPA 2023
pH (SU)	4.00	4.16	27.84	± 0.1	GWMP
pH (SU)	7.00	7.16	28.22	± 0.1	GWMP
pH (SU)	10.00	10.16	28.83	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	10.00	± 10% of standard	EPA 2023
	20.00	20.20		
	100.00	101.00		
	800.00	800.00		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 03/12/2026

Calibrated By: Natalie Piparo

Field Conditions: H 76, L 52

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1,197,755
Turbidity Meter	Hach	25100D000152

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24021711	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24022784	09/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24021650	09/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24020598	09/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	07:24	Time Finish	07:42		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	97.63	20.39	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,482.00	20.60	± 10% of standard	EPA 2023
pH (SU)	4.00	3.97	20.66	± 0.1	GWMP
pH (SU)	7.00	6.91	21.01	± 0.1	GWMP
pH (SU)	10.00	10.01	20.79	± 0.1	GWMP
ORP (mV)	228.0	225.70	21.00	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	10.10	± 10% of standard	EPA 2023
	20.00	20.20		
	100.00	97.90		
	800.00	791.00		

Calibration Check					
Time Start	09:37	Time Finish	09:43		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,497.00	21.86	± 10% of standard	EPA 2023
pH (SU)	4.00	4.17	21.85	± 0.1	GWMP
pH (SU)	7.00	7.24	21.95	± 0.1	GWMP
pH (SU)	10.00	10.30	22.17	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	10.10	± 10% of standard	EPA 2023
	20.00	20.10		
	100.00	99.20		
	800.00	795.00		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 03/10/2026

Calibrated By: Ori Kimhi

Field Conditions: Sunny 71F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1,182,553
Turbidity Meter	Hach	2590D000114

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24021711	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24022784	09/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24021650	09/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24020598	09/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	09:51	Time Finish	10:05		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	99.74	20.10	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,668.00	20.46	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	20.55	± 0.1	GWMP
pH (SU)	7.00	7.02	20.79	± 0.1	GWMP
pH (SU)	10.00	10.06	20.93	± 0.1	GWMP
ORP (mV)	228.0	213.60	20.96	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	10.00	± 10% of standard	EPA 2023
	20.00	19.80		
	100.00	102.00		
	800.00	803.00		

Calibration Check					
Time Start	17:11	Time Finish	17:23		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,480.00	28.24	± 10% of standard	EPA 2023
pH (SU)	4.00	4.13	28.26	± 0.1	GWMP
pH (SU)	7.00	7.14	27.69	± 0.1	GWMP
pH (SU)	10.00	10.15	27.53	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	9.92	± 10% of standard	EPA 2023
	20.00	22.50		
	100.00	102.00		
	800.00	793.00		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 03/11/2026

Calibrated By: Ori Kimhi

Field Conditions: Sunny 63F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1,182,553
Turbidity Meter	Hach	2590D000114

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24021711	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24022784	09/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24021650	09/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24020598	09/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	08:13	Time Finish	08:30		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	104.20	20.34	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,310.00	21.26	± 10% of standard	EPA 2023
pH (SU)	4.00	4.14	21.26	± 0.1	GWMP
pH (SU)	7.00	7.10	22.10	± 0.1	GWMP
pH (SU)	10.00	10.13	22.17	± 0.1	GWMP
ORP (mV)	228.0	222.90	22.43	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	10.50	± 10% of standard	EPA 2023
	20.00	20.30		
	100.00	99.70		
	800.00	823.00		

Calibration Check					
Time Start	17:17	Time Finish	17:27		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,646.00	32.12	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	31.90	± 0.1	GWMP
pH (SU)	7.00	7.04	31.67	± 0.1	GWMP
pH (SU)	10.00	10.04	30.93	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	10.20	± 10% of standard	EPA 2023
	20.00	21.20		
	100.00	99.30		
	800.00	803.00		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 03/12/2026

Calibrated By: Ori Kimhi

Field Conditions: Cloudy 66F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1,182,553
Turbidity Meter	Hach	2590D000114

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24021711	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24022784	09/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24021650	09/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24020598	09/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	07:20	Time Finish	07:31		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	96.20	21.03	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,580.00	22.16	± 10% of standard	EPA 2023
pH (SU)	4.00	3.98	22.52	± 0.1	GWMP
pH (SU)	7.00	7.04	23.17	± 0.1	GWMP
pH (SU)	10.00	10.04	23.45	± 0.1	GWMP
ORP (mV)	228.0	225.60	23.32	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	10.00	± 10% of standard	EPA 2023
	20.00	20.20		
	100.00	101.00		
	800.00	805.00		

Calibration Check					
Time Start	09:20	Time Finish	09:31		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,563.00	23.02	± 10% of standard	EPA 2023
pH (SU)	4.00	3.98	23.05	± 0.1	GWMP
pH (SU)	7.00	7.02	23.33	± 0.1	GWMP
pH (SU)	10.00	10.02	23.51	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	10.30	± 10% of standard	EPA 2023
	20.00	20.40		
	100.00	98.90		
	800.00	804.00		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 03/10/2026

Calibrated By: Shannon Northen

Field Conditions: 85°/ 63°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1,202,788
Turbidity Meter	Hach	25090D00134

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24021711	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24022784	09/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24021650	09/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24020598	09/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	09:50	Time Finish	09:58		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	100.90	20.02	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,493.00	20.39	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	20.75	± 0.1	GWMP
pH (SU)	7.00	6.90	20.73	± 0.1	GWMP
pH (SU)	10.00	9.87	20.73	± 0.1	GWMP
ORP (mV)	228.0	227.60	20.91	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	10.30	± 10% of standard	EPA 2023
	20.00	20.50		
	100.00	101.00		
	800.00	793.00		

Calibration Check					
Time Start	17:42	Time Finish	17:52		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,479.00	32.74	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	32.73	± 0.1	GWMP
pH (SU)	7.00	6.96	32.66	± 0.1	GWMP
pH (SU)	10.00	10.26	31.37	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	10.20	± 10% of standard	EPA 2023
	20.00	19.93		
	100.00	99.80		
	800.00	794.00		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 03/11/2026

Calibrated By: Shannon Northen

Field Conditions: 89°/ 62°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1,202,788
Turbidity Meter	Hach	25090D000134

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24021711	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24022784	09/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24021650	09/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24020598	09/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	08:20	Time Finish	08:33		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	101.40	20.08	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,549.00	21.62	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.10	± 0.1	GWMP
pH (SU)	7.00	6.90	22.29	± 0.1	GWMP
pH (SU)	10.00	10.01	22.78	± 0.1	GWMP
ORP (mV)	228.0	225.40	22.56	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	10.40	± 10% of standard	EPA 2023
	20.00	20.40		
	100.00	102.00		
	800.00	793.00		

Calibration Check					
Time Start	17:26	Time Finish	17:43		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,479.00	30.92	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	26.75	± 0.1	GWMP
pH (SU)	7.00	7.00	32.19	± 0.1	GWMP
pH (SU)	10.00	10.12	33.08	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	10.10	± 10% of standard	EPA 2023
	20.00	20.50		
	100.00	99.40		
	800.00	791.00		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 03/12/2026

Calibrated By: Shannon Northen

Field Conditions: 76°/ 53°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1,202,788
Turbidity Meter	Hach	25090D000134

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24021711	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24022784	09/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24021650	09/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24020598	09/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	07:28	Time Finish	07:42		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
D.O. (%)	N/A	100.30	20.82	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,469.00	20.90	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	20.91	± 0.1	GWMP
pH (SU)	7.00	6.90	20.90	± 0.1	GWMP
pH (SU)	10.00	10.07	20.85	± 0.1	GWMP
ORP (mV)	228.0	230.40	20.99	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	10.20	± 10% of standard	EPA 2023
	20.00	20.70		
	100.00	101.00		
	800.00	799.00		

Calibration Check					
Time Start	09:31	Time Finish	09:40		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,461.00	24.31	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	24.32	± 0.1	GWMP
pH (SU)	7.00	7.01	24.10	± 0.1	GWMP
pH (SU)	10.00	10.13	23.10	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10.00	10.60	± 10% of standard	EPA 2023
	20.00	20.40		
	100.00	101.00		
	800.00	791.00		

Notes:

Start of Day:

End of Day:

Low-Flow Test Report:

Test Date / Time: 3/10/2026 11:08:11 AM
Project: March 2026 McManus CCR Event
Operator Name: Ori Kimhi

Location Name: MCM-05 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.05 ft** **Total Depth: 28.05 ft** **Initial Depth to Water: 8.11 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 23.05 ft** **Estimated Total Volume Pumped: 6300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 180 ml/min** **Final Draw Down: -0.08 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
3/10/2026 11:08 AM	00:00	6.704 pH	28.65 °C	17,317 µS/cm	1.531 mg/L	5.080 NTU	-132.2 mV	8.150 ft	10.35 PSU	180.0 ml/min
3/10/2026 11:13 AM	05:00	6.720 pH	22.84 °C	19,187 µS/cm	0.109 mg/L	4.850 NTU	-238.3 mV	8.150 ft	11.55 PSU	180.0 ml/min
3/10/2026 11:18 AM	10:00	6.715 pH	22.79 °C	19,295 µS/cm	0.087 mg/L	4.740 NTU	-151.7 mV	8.150 ft	11.63 PSU	180.0 ml/min
3/10/2026 11:23 AM	15:00	6.715 pH	22.89 °C	19,234 µS/cm	0.078 mg/L	6.440 NTU	-153.1 mV	8.150 ft	11.59 PSU	180.0 ml/min
3/10/2026 11:28 AM	20:00	6.715 pH	22.89 °C	19,223 µS/cm	0.073 mg/L	6.830 NTU	-153.7 mV	8.110 ft	11.58 PSU	180.0 ml/min
3/10/2026 11:33 AM	25:00	6.714 pH	23.07 °C	19,177 µS/cm	0.068 mg/L	4.090 NTU	-154.9 mV	8.070 ft	11.55 PSU	180.0 ml/min
3/10/2026 11:38 AM	30:00	6.714 pH	23.17 °C	19,103 µS/cm	0.067 mg/L	4.020 NTU	-155.2 mV	8.030 ft	11.50 PSU	180.0 ml/min
3/10/2026 11:43 AM	35:00	6.715 pH	23.23 °C	19,120 µS/cm	0.066 mg/L	3.880 NTU	-155.5 mV	8.030 ft	11.51 PSU	180.0 ml/min

Samples

Sample ID:	Description:
MCM-05	Metals, Inorganics, Alkalinity, TDS, Radium, Sulfide

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/10/2026 11:13:12 AM
Project: March 2026 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.11 ft** **Total Depth: 28.11 ft** **Initial Depth to Water: 10.14 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 23.11 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.13 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1197755**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/10/2026 11:13 AM	00:00	6.241 pH	28.62 °C	21,987 µS/cm	1.036 mg/L	0.440 NTU	-263.9 mV	10.14 ft	13.43 PSU	200.0 ml/min
3/10/2026 11:18 AM	05:00	6.264 pH	23.54 °C	24,975 µS/cm	0.268 mg/L	0.360 NTU	-314.3 mV	10.14 ft	15.41 PSU	200.0 ml/min
3/10/2026 11:23 AM	10:00	6.246 pH	23.35 °C	25,726 µS/cm	0.251 mg/L	0.250 NTU	-308.2 mV	10.11 ft	15.92 PSU	200.0 ml/min
3/10/2026 11:28 AM	15:00	6.244 pH	23.39 °C	26,249 µS/cm	0.220 mg/L	0.220 NTU	-307.5 mV	10.09 ft	16.28 PSU	200.0 ml/min
3/10/2026 11:33 AM	20:00	6.246 pH	23.42 °C	26,799 µS/cm	0.219 mg/L	0.170 NTU	-305.8 mV	10.06 ft	16.65 PSU	200.0 ml/min
3/10/2026 11:38 AM	25:00	6.252 pH	23.33 °C	27,250 µS/cm	0.217 mg/L	0.150 NTU	-304.3 mV	10.04 ft	16.96 PSU	200.0 ml/min
3/10/2026 11:43 AM	30:00	6.256 pH	23.16 °C	27,631 µS/cm	0.203 mg/L	0.130 NTU	-304.1 mV	10.01 ft	17.21 PSU	200.0 ml/min

Samples

Sample ID:	Description:
MCM-14	Metals, Inorganics, Alkalinity, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/10/2026 11:14:39 AM
Project: March 2026 McManus CCR Event
Operator Name: Shannon Northen

Location Name: MCM-18 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.86 ft** **Total Depth: 27.86 ft** **Initial Depth to Water: 6.63 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LPDE** **Pump Intake From TOC: 22.86 ft** **Estimated Total Volume Pumped: 4850 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.36 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1202788**

Test Notes:
Pre-purged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
3/10/2026 11:14 AM	00:00	4.540 pH	20.16 °C	4,350 µS/cm	0.280 mg/L	1.420 NTU	36.5 mV	6.870 ft	2.342 PSU	185.0 ml/min
3/10/2026 11:19 AM	05:00	4.542 pH	20.12 °C	4,399 µS/cm	0.268 mg/L	1.390 NTU	32.3 mV	6.870 ft	2.370 PSU	185.0 ml/min
3/10/2026 11:24 AM	10:00	4.549 pH	19.99 °C	4,361 µS/cm	0.204 mg/L	0.460 NTU	30.2 mV	6.910 ft	2.348 PSU	200.0 ml/min
3/10/2026 11:29 AM	15:00	4.551 pH	19.86 °C	4,365 µS/cm	0.157 mg/L	0.510 NTU	29.2 mV	6.950 ft	2.350 PSU	200.0 ml/min
3/10/2026 11:34 AM	20:00	4.551 pH	19.79 °C	4,392 µS/cm	0.117 mg/L	0.490 NTU	28.8 mV	6.980 ft	2.366 PSU	200.0 ml/min
3/10/2026 11:39 AM	25:00	4.549 pH	19.85 °C	4,379 µS/cm	0.083 mg/L	0.430 NTU	28.6 mV	6.990 ft	2.358 PSU	200.0 ml/min

Samples

Sample ID:	Description:
MCM-18	Metals, Inorganics, Alkalinity, TDS, Radium
FD-01	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/10/2026 11:40:47 AM
Project: March 2026 McManus CCR Event
Operator Name: Jay Siewert

Location Name: MCM-04 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.57 ft** **Total Depth: 28.57 ft** **Initial Depth to Water: 9.83 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.57 ft** **Estimated Total Volume Pumped: 27600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: -0.13 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1306331**

Test Notes:
Prepurged 6 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10	
3/10/2026 11:40 AM	00:00	5.021 pH	21.73 °C	84.87 µS/cm	0.464 mg/L	9.010 NTU	155.9 mV	10.09 ft	0.039 PSU	240.0 ml/min
3/10/2026 11:45 AM	05:00	4.920 pH	21.70 °C	84.52 µS/cm	0.388 mg/L	7.120 NTU	125.8 mV	10.09 ft	0.039 PSU	240.0 ml/min
3/10/2026 11:50 AM	10:00	5.030 pH	21.69 °C	82.32 µS/cm	0.350 mg/L	4.690 NTU	133.6 mV	10.08 ft	0.038 PSU	240.0 ml/min
3/10/2026 11:55 AM	15:00	5.016 pH	21.76 °C	89.26 µS/cm	0.329 mg/L	6.700 NTU	123.0 mV	10.07 ft	0.042 PSU	240.0 ml/min
3/10/2026 12:00 PM	20:00	4.870 pH	21.76 °C	87.20 µS/cm	0.311 mg/L	3.380 NTU	114.1 mV	10.05 ft	0.041 PSU	240.0 ml/min
3/10/2026 12:05 PM	25:00	4.909 pH	21.81 °C	88.03 µS/cm	0.291 mg/L	3.730 NTU	103.1 mV	10.05 ft	0.041 PSU	240.0 ml/min
3/10/2026 12:10 PM	30:00	4.991 pH	21.82 °C	90.38 µS/cm	0.272 mg/L	2.770 NTU	95.4 mV	10.04 ft	0.042 PSU	240.0 ml/min
3/10/2026 12:15 PM	35:00	5.074 pH	21.82 °C	89.78 µS/cm	0.249 mg/L	2.690 NTU	87.1 mV	10.03 ft	0.042 PSU	240.0 ml/min
3/10/2026 12:20 PM	40:00	5.056 pH	21.94 °C	89.09 µS/cm	0.245 mg/L	2.140 NTU	84.0 mV	9.980 ft	0.042 PSU	200.0 ml/min
3/10/2026 12:25 PM	45:00	5.022 pH	22.01 °C	91.82 µS/cm	0.241 mg/L	2.190 NTU	81.2 mV	9.970 ft	0.043 PSU	200.0 ml/min
3/10/2026 12:30 PM	50:00	5.105 pH	22.07 °C	85.12 µS/cm	0.229 mg/L	1.250 NTU	71.1 mV	9.950 ft	0.040 PSU	200.0 ml/min
3/10/2026 12:35 PM	55:00	5.094 pH	22.07 °C	87.49 µS/cm	0.224 mg/L	1.900 NTU	75.2 mV	9.950 ft	0.041 PSU	200.0 ml/min
3/10/2026 12:40 PM	01:00:00	5.106 pH	22.13 °C	83.99 µS/cm	0.212 mg/L	1.580 NTU	70.3 mV	9.930 ft	0.039 PSU	200.0 ml/min
3/10/2026 12:45 PM	01:05:00	5.069 pH	22.18 °C	89.06 µS/cm	0.206 mg/L	2.260 NTU	69.0 mV	9.920 ft	0.041 PSU	200.0 ml/min
3/10/2026 12:50 PM	01:10:00	5.072 pH	22.33 °C	89.46 µS/cm	0.199 mg/L	1.970 NTU	69.3 mV	9.910 ft	0.042 PSU	200.0 ml/min

3/10/2026 12:55 PM	01:15:00	4.974 pH	22.32 °C	89.68 µS/cm	0.192 mg/L	2.160 NTU	70.2 mV	9.900 ft	0.042 PSU	200.0 ml/min
3/10/2026 1:00 PM	01:20:00	4.962 pH	22.27 °C	89.97 µS/cm	0.180 mg/L	1.040 NTU	54.1 mV	9.900 ft	0.042 PSU	200.0 ml/min
3/10/2026 1:05 PM	01:25:00	4.988 pH	22.21 °C	93.21 µS/cm	0.173 mg/L	1.020 NTU	65.5 mV	9.890 ft	0.044 PSU	200.0 ml/min
3/10/2026 1:10 PM	01:30:00	4.966 pH	22.37 °C	91.39 µS/cm	0.172 mg/L	1.810 NTU	70.2 mV	9.880 ft	0.043 PSU	200.0 ml/min
3/10/2026 1:15 PM	01:35:00	4.985 pH	22.39 °C	86.39 µS/cm	0.169 mg/L	1.120 NTU	67.6 mV	9.880 ft	0.040 PSU	200.0 ml/min
3/10/2026 1:20 PM	01:40:00	5.066 pH	22.38 °C	93.88 µS/cm	0.162 mg/L	1.410 NTU	66.8 mV	9.850 ft	0.044 PSU	200.0 ml/min
3/10/2026 1:25 PM	01:45:00	5.065 pH	22.54 °C	95.16 µS/cm	0.163 mg/L	1.200 NTU	53.2 mV	9.800 ft	0.044 PSU	200.0 ml/min
3/10/2026 1:30 PM	01:50:00	5.031 pH	22.75 °C	97.37 µS/cm	0.170 mg/L	1.270 NTU	68.5 mV	9.750 ft	0.046 PSU	160.0 ml/min
3/10/2026 1:35 PM	01:55:00	5.036 pH	22.87 °C	92.09 µS/cm	0.183 mg/L	1.190 NTU	72.0 mV	9.750 ft	0.043 PSU	160.0 ml/min
3/10/2026 1:40 PM	02:00:00	5.009 pH	22.75 °C	92.63 µS/cm	0.185 mg/L	1.050 NTU	72.7 mV	9.740 ft	0.043 PSU	160.0 ml/min
3/10/2026 1:45 PM	02:05:00	5.066 pH	22.64 °C	90.42 µS/cm	0.185 mg/L	1.020 NTU	72.2 mV	9.720 ft	0.042 PSU	160.0 ml/min
3/10/2026 1:50 PM	02:10:00	4.999 pH	22.65 °C	92.18 µS/cm	0.180 mg/L	1.030 NTU	70.0 mV	9.710 ft	0.043 PSU	160.0 ml/min
3/10/2026 1:55 PM	02:15:00	5.068 pH	22.77 °C	88.95 µS/cm	0.179 mg/L	1.010 NTU	70.0 mV	9.700 ft	0.041 PSU	160.0 ml/min

Samples

Sample ID:	Description:
MCM-04	Metals, Inorganics, Alkalinity, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/10/2026 2:26:33 PM
Project: March 2026 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-17 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.44 ft** **Total Depth: 27.44 ft** **Initial Depth to Water: 9.21 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.44 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1197755**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/10/2026 2:26 PM	00:00	6.048 pH	24.11 °C	13,173 µS/cm	0.127 mg/L	4.370 NTU	-107.0 mV	9.220 ft	7.690 PSU	200.0 ml/min
3/10/2026 2:31 PM	05:00	6.050 pH	23.82 °C	13,165 µS/cm	0.102 mg/L	4.760 NTU	-85.6 mV	9.200 ft	7.684 PSU	200.0 ml/min
3/10/2026 2:36 PM	10:00	6.054 pH	23.78 °C	13,145 µS/cm	0.085 mg/L	4.260 NTU	-84.4 mV	9.200 ft	7.671 PSU	200.0 ml/min
3/10/2026 2:41 PM	15:00	6.058 pH	23.96 °C	13,081 µS/cm	0.097 mg/L	4.110 NTU	-83.4 mV	9.200 ft	7.631 PSU	200.0 ml/min
3/10/2026 2:46 PM	20:00	6.060 pH	23.84 °C	13,137 µS/cm	0.083 mg/L	3.570 NTU	-83.1 mV	9.200 ft	7.666 PSU	200.0 ml/min
3/10/2026 2:51 PM	25:00	6.064 pH	23.95 °C	13,164 µS/cm	0.086 mg/L	3.340 NTU	-83.2 mV	9.200 ft	7.683 PSU	200.0 ml/min

Samples

Sample ID:	Description:
MCM-17	Metals, Inorganics, Alkalinity, TDS, Radium

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Low-Flow Test Report:

Test Date / Time: 3/10/2026 3:46:14 PM
Project: March 2026 McManus CCR Event
Operator Name: Ori Kimhi

Location Name: MCM-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.32 ft** **Total Depth: 27.32 ft** **Initial Depth to Water: 4.5 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.32 ft** **Estimated Total Volume Pumped: 9600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:
Prepurged 10L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
3/10/2026 3:46 PM	00:00	5.865 pH	26.02 °C	133.1 µS/cm	0.389 mg/L	11.70 NTU	48.6 mV	4.500 ft	0.063 PSU	240.0 ml/min
3/10/2026 3:51 PM	05:00	5.167 pH	22.97 °C	133.5 µS/cm	0.139 mg/L	8.590 NTU	55.3 mV	4.500 ft	0.063 PSU	240.0 ml/min
3/10/2026 3:56 PM	10:00	5.130 pH	22.77 °C	132.3 µS/cm	0.133 mg/L	6.350 NTU	46.5 mV	4.500 ft	0.062 PSU	240.0 ml/min
3/10/2026 4:01 PM	15:00	5.118 pH	22.67 °C	131.9 µS/cm	0.134 mg/L	6.040 NTU	50.8 mV	4.500 ft	0.062 PSU	240.0 ml/min
3/10/2026 4:06 PM	20:00	5.112 pH	22.64 °C	131.5 µS/cm	0.129 mg/L	5.410 NTU	53.7 mV	4.500 ft	0.062 PSU	240.0 ml/min
3/10/2026 4:11 PM	25:00	5.104 pH	22.69 °C	131.5 µS/cm	0.125 mg/L	5.740 NTU	56.0 mV	4.500 ft	0.062 PSU	240.0 ml/min
3/10/2026 4:16 PM	30:00	5.109 pH	22.74 °C	130.2 µS/cm	0.130 mg/L	3.780 NTU	58.4 mV	4.500 ft	0.061 PSU	240.0 ml/min
3/10/2026 4:21 PM	35:00	5.118 pH	22.78 °C	130.7 µS/cm	0.128 mg/L	3.670 NTU	62.7 mV	4.500 ft	0.062 PSU	240.0 ml/min
3/10/2026 4:26 PM	40:00	5.117 pH	22.77 °C	130.1 µS/cm	0.131 mg/L	3.370 NTU	64.1 mV	4.500 ft	0.061 PSU	240.0 ml/min

Samples

Sample ID:	Description:
MCM-01	Metals, Inorganics, Alkalinity, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/10/2026 4:01:20 PM
Project: March 2026 McManus Interim Performance Sampling
Operator Name: Shannon Northen

Location Name: PT-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 5.44 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LPDE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 4400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1202788**

Test Notes:
Pre-purged 2.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
3/10/2026 4:01 PM	00:00	6.896 pH	23.37 °C	21,377 µS/cm	0.113 mg/L	0.730 NTU	-172.6 mV	5.550 ft	13.00 PSU	220.0 ml/min
3/10/2026 4:06 PM	05:00	6.851 pH	23.05 °C	21,306 µS/cm	0.114 mg/L	0.680 NTU	-276.2 mV	5.580 ft	12.95 PSU	220.0 ml/min
3/10/2026 4:11 PM	10:00	6.862 pH	23.38 °C	20,843 µS/cm	0.093 mg/L	0.490 NTU	-174.9 mV	5.590 ft	12.65 PSU	220.0 ml/min
3/10/2026 4:16 PM	15:00	6.865 pH	23.61 °C	20,806 µS/cm	0.087 mg/L	0.480 NTU	-176.6 mV	5.620 ft	12.63 PSU	220.0 ml/min
3/10/2026 4:21 PM	20:00	6.902 pH	23.82 °C	19,910 µS/cm	0.084 mg/L	0.350 NTU	-178.2 mV	5.640 ft	12.04 PSU	220.0 ml/min

Samples

Sample ID:	Description:
PT-01	Metals

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/10/2026 4:07:39 PM
Project: March 2026 McManus CCR Event
Operator Name: Jay Siewert

Location Name: DPZ-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.46 ft** **Total Depth: 43.46 ft** **Initial Depth to Water: 7.29 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 38.46 ft** **Estimated Total Volume Pumped: 8800 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.47 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1306331**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10	
3/10/2026 4:07 PM	00:00	7.234 pH	24.71 °C	13,236 µS/cm	0.372 mg/L	3.040 NTU	-306.9 mV	7.590 ft	7.732 PSU	220.0 ml/min
3/10/2026 4:12 PM	05:00	7.189 pH	24.89 °C	13,365 µS/cm	0.196 mg/L	1.580 NTU	-330.1 mV	7.610 ft	7.813 PSU	220.0 ml/min
3/10/2026 4:17 PM	10:00	7.159 pH	24.97 °C	13,539 µS/cm	0.154 mg/L	1.520 NTU	-330.2 mV	7.630 ft	7.924 PSU	220.0 ml/min
3/10/2026 4:22 PM	15:00	7.143 pH	25.03 °C	13,729 µS/cm	0.162 mg/L	0.930 NTU	-333.1 mV	7.660 ft	8.044 PSU	220.0 ml/min
3/10/2026 4:27 PM	20:00	7.104 pH	24.95 °C	14,621 µS/cm	0.140 mg/L	0.520 NTU	-337.4 mV	7.690 ft	8.611 PSU	220.0 ml/min
3/10/2026 4:32 PM	25:00	7.102 pH	24.94 °C	14,829 µS/cm	0.118 mg/L	0.450 NTU	-338.8 mV	7.700 ft	8.744 PSU	220.0 ml/min
3/10/2026 4:37 PM	30:00	7.103 pH	24.90 °C	14,854 µS/cm	0.109 mg/L	0.400 NTU	-338.9 mV	7.720 ft	8.759 PSU	220.0 ml/min
3/10/2026 4:42 PM	35:00	7.104 pH	24.86 °C	14,880 µS/cm	0.113 mg/L	0.340 NTU	-339.1 mV	7.750 ft	8.776 PSU	220.0 ml/min
3/10/2026 4:47 PM	40:00	7.106 pH	24.98 °C	14,903 µS/cm	0.103 mg/L	0.260 NTU	-340.2 mV	7.760 ft	8.791 PSU	220.0 ml/min

Samples

Sample ID:	Description:
DPZ-02	Metals, Inorganics, Alkalinity, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/10/2026 4:22:59 PM
Project: March 2026 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-06 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.2 ft** **Total Depth: 27.2 ft** **Initial Depth to Water: 8 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 22.2 ft** **Estimated Total Volume Pumped: 6300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1197755**

Test Notes:
Prepurged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/10/2026 4:22 PM	00:00	6.226 pH	24.14 °C	33,964 µS/cm	0.178 mg/L	2.970 NTU	-110.2 mV	8.190 ft	21.62 PSU	210.0 ml/min
3/10/2026 4:27 PM	05:00	6.302 pH	23.51 °C	34,645 µS/cm	0.143 mg/L	5.040 NTU	-186.0 mV	8.190 ft	22.09 PSU	210.0 ml/min
3/10/2026 4:32 PM	10:00	6.365 pH	23.51 °C	33,906 µS/cm	0.132 mg/L	2.470 NTU	-103.7 mV	8.190 ft	21.57 PSU	210.0 ml/min
3/10/2026 4:37 PM	15:00	6.417 pH	23.45 °C	33,050 µS/cm	0.135 mg/L	1.190 NTU	-111.8 mV	8.190 ft	20.97 PSU	210.0 ml/min
3/10/2026 4:42 PM	20:00	6.459 pH	23.42 °C	32,884 µS/cm	0.137 mg/L	1.160 NTU	-116.8 mV	8.190 ft	20.85 PSU	210.0 ml/min
3/10/2026 4:47 PM	25:00	6.487 pH	23.46 °C	32,695 µS/cm	0.129 mg/L	0.910 NTU	-121.1 mV	8.200 ft	20.72 PSU	210.0 ml/min
3/10/2026 4:52 PM	30:00	6.505 pH	23.47 °C	32,614 µS/cm	0.138 mg/L	0.650 NTU	-123.6 mV	8.200 ft	20.66 PSU	210.0 ml/min

Samples

Sample ID:	Description:
MCM-06	Metals, Inorganics, Alkalinity, TDS, Radium, Sulfide

Low-Flow Test Report:

Test Date / Time: 3/11/2026 9:35:29 AM
Project: March 2026 McManus CCR Event
Operator Name: Ori Kimhi

Location Name: MCM-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 19 ft** **Total Depth: 29 ft** **Initial Depth to Water: 9.13 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 24 ft** **Estimated Total Volume Pumped: 10200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 180 ml/min** **Final Draw Down: 2.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
3/11/2026 9:35 AM	00:00	6.315 pH	27.02 °C	1,796 µS/cm	3.620 mg/L	1.150 NTU	119.1 mV	10.83 ft	0.921 PSU	220.0 ml/min
3/11/2026 9:40 AM	05:00	6.306 pH	21.33 °C	1,890 µS/cm	0.084 mg/L	2.020 NTU	-42.6 mV	10.86 ft	0.972 PSU	220.0 ml/min
3/11/2026 9:45 AM	10:00	6.302 pH	21.24 °C	1,886 µS/cm	0.062 mg/L	3.370 NTU	18.7 mV	10.92 ft	0.969 PSU	220.0 ml/min
3/11/2026 9:50 AM	15:00	6.300 pH	21.22 °C	1,888 µS/cm	0.050 mg/L	4.720 NTU	18.8 mV	10.94 ft	0.970 PSU	220.0 ml/min
3/11/2026 9:55 AM	20:00	6.299 pH	21.27 °C	1,887 µS/cm	0.047 mg/L	4.770 NTU	19.8 mV	10.97 ft	0.970 PSU	200.0 ml/min
3/11/2026 10:00 AM	25:00	6.297 pH	21.27 °C	1,887 µS/cm	0.035 mg/L	4.780 NTU	20.3 mV	11.01 ft	0.970 PSU	200.0 ml/min
3/11/2026 10:05 AM	30:00	6.297 pH	21.31 °C	1,884 µS/cm	0.032 mg/L	4.890 NTU	21.2 mV	11.13 ft	0.969 PSU	200.0 ml/min
3/11/2026 10:10 AM	35:00	6.295 pH	21.30 °C	1,891 µS/cm	0.031 mg/L	5.110 NTU	22.6 mV	11.08 ft	0.972 PSU	200.0 ml/min
3/11/2026 10:15 AM	40:00	6.293 pH	21.29 °C	1,892 µS/cm	0.029 mg/L	4.950 NTU	23.8 mV	11.08 ft	0.973 PSU	180.0 ml/min
3/11/2026 10:20 AM	45:00	6.293 pH	21.33 °C	1,893 µS/cm	0.026 mg/L	4.840 NTU	25.0 mV	11.13 ft	0.973 PSU	180.0 ml/min
3/11/2026 10:25 AM	50:00	6.292 pH	21.38 °C	1,887 µS/cm	0.026 mg/L	4.530 NTU	25.4 mV	11.15 ft	0.970 PSU	180.0 ml/min

Samples

Sample ID:	Description:
MCM-12	Metals, Inorganics, Alkalinity, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 3/11/2026 9:45:45 AM
Project: March 2026 McManus Interim Performance Sampling
Operator Name: Shannon Northen

Location Name: DR-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 16.96 ft** **Total Depth: 31.96 ft** **Initial Depth to Water: 6.36 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LPDE** **Pump Intake From TOC: 24.46 ft** **Estimated Total Volume Pumped: 6600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1202788**

Test Notes:
Pre-purged 4 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
3/11/2026 9:45 AM	00:00	7.149 pH	22.23 °C	14,297 µS/cm	0.101 mg/L	6.580 NTU	-226.2 mV	6.430 ft	8.394 PSU	220.0 ml/min
3/11/2026 9:50 AM	05:00	7.192 pH	22.03 °C	13,762 µS/cm	0.088 mg/L	4.630 NTU	-227.6 mV	6.450 ft	8.054 PSU	220.0 ml/min
3/11/2026 9:55 AM	10:00	7.218 pH	22.32 °C	13,272 µS/cm	0.075 mg/L	4.590 NTU	-232.3 mV	6.450 ft	7.745 PSU	220.0 ml/min
3/11/2026 10:00 AM	15:00	7.241 pH	22.44 °C	12,989 µS/cm	0.068 mg/L	4.130 NTU	-236.2 mV	6.450 ft	7.568 PSU	220.0 ml/min
3/11/2026 10:05 AM	20:00	7.258 pH	22.55 °C	12,723 µS/cm	0.064 mg/L	3.440 NTU	-240.9 mV	6.450 ft	7.401 PSU	220.0 ml/min
3/11/2026 10:10 AM	25:00	7.265 pH	22.60 °C	12,582 µS/cm	0.057 mg/L	3.070 NTU	-247.9 mV	6.460 ft	7.313 PSU	220.0 ml/min
3/11/2026 10:15 AM	30:00	7.273 pH	22.64 °C	12,474 µS/cm	0.052 mg/L	2.770 NTU	-256.7 mV	6.470 ft	7.245 PSU	220.0 ml/min

Samples

Sample ID:	Description:
DR-03	Metals, Sulfide

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Low-Flow Test Report:

Test Date / Time: 3/11/2026 10:04:46 AM
Project: March 2026 McManus CCR Event
Operator Name: Jay Siewert

Location Name: MCM-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 13.75 ft** **Total Depth: 23.75 ft** **Initial Depth to Water: 7.9 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 18.75 ft** **Estimated Total Volume Pumped: 5250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.59 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1306331**

Test Notes:
Prepurged 5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10	
3/11/2026 10:04 AM	00:00	6.762 pH	21.54 °C	13,360 µS/cm	0.160 mg/L	11.60 NTU	-244.9 mV	8.600 ft	7.797 PSU	210.0 ml/min
3/11/2026 10:09 AM	05:00	6.553 pH	21.68 °C	13,446 µS/cm	0.148 mg/L	5.420 NTU	-290.4 mV	8.600 ft	7.852 PSU	210.0 ml/min
3/11/2026 10:14 AM	10:00	6.545 pH	21.76 °C	13,527 µS/cm	0.156 mg/L	2.700 NTU	-235.6 mV	8.580 ft	7.904 PSU	210.0 ml/min
3/11/2026 10:19 AM	15:00	6.544 pH	21.81 °C	13,599 µS/cm	0.157 mg/L	1.370 NTU	-234.6 mV	8.550 ft	7.950 PSU	210.0 ml/min
3/11/2026 10:24 AM	20:00	6.545 pH	21.97 °C	13,613 µS/cm	0.152 mg/L	1.390 NTU	-233.9 mV	8.520 ft	7.960 PSU	210.0 ml/min
3/11/2026 10:29 AM	25:00	6.546 pH	21.97 °C	13,679 µS/cm	0.146 mg/L	1.210 NTU	-233.1 mV	8.490 ft	8.001 PSU	210.0 ml/min

Samples

Sample ID:	Description:
MCM-07	Metals, Inorganics, Alkalinity, TDS, Radium

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Low-Flow Test Report:

Test Date / Time: 3/11/2026 10:37:21 AM
Project: March 2026 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14 ft** **Total Depth: 24 ft** **Initial Depth to Water: 6.18 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 19 ft** **Estimated Total Volume Pumped: 15600 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 1.95 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1197755**

Test Notes:
Prepurged 14 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/11/2026 10:37 AM	00:00	4.706 pH	24.09 °C	113.5 µS/cm	0.447 mg/L	16.80 NTU	98.6 mV	8.080 ft	0.053 PSU	240.0 ml/min
3/11/2026 10:42 AM	05:00	4.711 pH	21.81 °C	115.4 µS/cm	0.161 mg/L	13.00 NTU	103.9 mV	8.130 ft	0.054 PSU	240.0 ml/min
3/11/2026 10:47 AM	10:00	4.692 pH	21.54 °C	116.4 µS/cm	0.149 mg/L	12.30 NTU	134.7 mV	8.130 ft	0.055 PSU	240.0 ml/min
3/11/2026 10:52 AM	15:00	4.697 pH	21.50 °C	117.3 µS/cm	0.141 mg/L	12.10 NTU	149.3 mV	8.150 ft	0.055 PSU	240.0 ml/min
3/11/2026 10:57 AM	20:00	4.685 pH	21.50 °C	117.4 µS/cm	0.137 mg/L	9.550 NTU	157.2 mV	8.150 ft	0.055 PSU	240.0 ml/min
3/11/2026 11:02 AM	25:00	4.691 pH	21.54 °C	118.5 µS/cm	0.131 mg/L	7.410 NTU	163.4 mV	8.150 ft	0.056 PSU	240.0 ml/min
3/11/2026 11:07 AM	30:00	4.705 pH	21.50 °C	118.8 µS/cm	0.129 mg/L	7.240 NTU	165.7 mV	8.160 ft	0.056 PSU	240.0 ml/min
3/11/2026 11:12 AM	35:00	4.697 pH	21.62 °C	118.9 µS/cm	0.128 mg/L	7.720 NTU	168.5 mV	8.140 ft	0.056 PSU	240.0 ml/min
3/11/2026 11:17 AM	40:00	4.696 pH	21.72 °C	119.4 µS/cm	0.134 mg/L	7.150 NTU	172.2 mV	8.130 ft	0.056 PSU	240.0 ml/min
3/11/2026 11:22 AM	45:00	4.724 pH	21.69 °C	120.9 µS/cm	0.127 mg/L	5.740 NTU	172.8 mV	8.130 ft	0.057 PSU	240.0 ml/min
3/11/2026 11:27 AM	50:00	4.730 pH	21.63 °C	121.0 µS/cm	0.125 mg/L	5.110 NTU	147.3 mV	8.130 ft	0.057 PSU	240.0 ml/min
3/11/2026 11:32 AM	55:00	4.738 pH	21.65 °C	121.4 µS/cm	0.123 mg/L	4.570 NTU	173.4 mV	8.130 ft	0.057 PSU	240.0 ml/min
3/11/2026 11:37 AM	01:00:00	4.725 pH	21.72 °C	122.8 µS/cm	0.122 mg/L	4.310 NTU	175.8 mV	8.130 ft	0.058 PSU	240.0 ml/min
3/11/2026 11:42 AM	01:05:00	4.732 pH	21.66 °C	123.7 µS/cm	0.122 mg/L	4.060 NTU	176.6 mV	8.130 ft	0.058 PSU	240.0 ml/min

Samples

Sample ID:	Description:
MCM-11	Metals, Inorganics, Alkalinity, TDS, Radium

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Low-Flow Test Report:

Test Date / Time: 3/11/2026 10:55:45 AM
Project: March 2026 McManus Interim Performance Sampling
Operator Name: Shannon Northen

Location Name: PT-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.36 ft** **Total Depth: 25.36 ft** **Initial Depth to Water: 6.18 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LPDE** **Pump Intake From TOC: 20.36 ft** **Estimated Total Volume Pumped: 5500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1202788**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
3/11/2026 10:55 AM	00:00	7.148 pH	22.82 °C	21,275 µS/cm	0.114 mg/L	1.370 NTU	-309.2 mV	6.260 ft	12.93 PSU	220.0 ml/min
3/11/2026 11:00 AM	05:00	6.687 pH	22.39 °C	21,450 µS/cm	0.091 mg/L	1.120 NTU	-321.0 mV	6.280 ft	13.04 PSU	220.0 ml/min
3/11/2026 11:05 AM	10:00	6.680 pH	22.64 °C	21,316 µS/cm	0.078 mg/L	1.260 NTU	-320.5 mV	6.280 ft	12.96 PSU	220.0 ml/min
3/11/2026 11:10 AM	15:00	6.689 pH	22.66 °C	21,171 µS/cm	0.071 mg/L	1.220 NTU	-324.5 mV	6.280 ft	12.86 PSU	220.0 ml/min
3/11/2026 11:15 AM	20:00	6.706 pH	22.76 °C	20,928 µS/cm	0.065 mg/L	1.090 NTU	-328.0 mV	6.280 ft	12.70 PSU	220.0 ml/min
3/11/2026 11:20 AM	25:00	6.733 pH	22.78 °C	20,517 µS/cm	0.062 mg/L	0.820 NTU	-332.1 mV	6.290 ft	12.43 PSU	220.0 ml/min

Samples

Sample ID:	Description:
PT-03	Metals, Sulfide
FD-01	Metals, Sulfide

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Low-Flow Test Report:

Test Date / Time: 3/11/2026 2:24:20 PM
Project: March 2026 McManus Interim Performance Sampling
Operator Name: Shannon Northen

Location Name: INW-01 **Well Diameter: 4 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.78 ft** **Total Depth: 30.78 ft** **Initial Depth to Water: 5.53 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LPDE** **Pump Intake From TOC: 23.28 ft** **Estimated Total Volume Pumped: 7000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 240 ml/min** **Final Draw Down: 0.43 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1202788**

Test Notes:
Pre-purged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
3/11/2026 2:24 PM	00:00	7.148 pH	24.84 °C	22,834 µS/cm	0.117 mg/L	1.220 NTU	-296.7 mV	5.960 ft	13.98 PSU	240.0 ml/min
3/11/2026 2:29 PM	05:00	6.761 pH	24.40 °C	23,077 µS/cm	0.099 mg/L	0.930 NTU	-304.4 mV	5.960 ft	14.14 PSU	240.0 ml/min
3/11/2026 2:34 PM	10:00	6.746 pH	24.39 °C	23,140 µS/cm	0.090 mg/L	0.660 NTU	-307.6 mV	5.960 ft	14.19 PSU	240.0 ml/min
3/11/2026 2:39 PM	15:00	6.747 pH	24.26 °C	23,117 µS/cm	0.079 mg/L	0.610 NTU	-310.1 mV	5.960 ft	14.17 PSU	240.0 ml/min
3/11/2026 2:44 PM	20:00	6.746 pH	24.28 °C	23,205 µS/cm	0.074 mg/L	0.530 NTU	-311.9 mV	5.960 ft	14.23 PSU	240.0 ml/min
3/11/2026 2:49 PM	25:00	6.743 pH	24.47 °C	23,076 µS/cm	0.067 mg/L	0.490 NTU	-313.4 mV	5.960 ft	14.14 PSU	240.0 ml/min

Samples

Sample ID:	Description:
INW-01	Metals, Sulfide

Low-Flow Test Report:

Test Date / Time: 3/11/2026 2:34:46 PM
Project: March 2026 McManus CCR Event
Operator Name: Jay Siewert

Location Name: MCM-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.6 ft** **Total Depth: 26.6 ft** **Initial Depth to Water: 9.61 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 21.6 ft** **Estimated Total Volume Pumped: 14000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.09 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1306331**

Test Notes:
Prepurged 3 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10	
3/11/2026 2:34 PM	00:00	5.258 pH	23.16 °C	63.86 µS/cm	0.222 mg/L	3.080 NTU	104.1 mV	9.770 ft	0.029 PSU	240.0 ml/min
3/11/2026 2:39 PM	05:00	5.259 pH	23.18 °C	64.20 µS/cm	0.183 mg/L	2.200 NTU	104.3 mV	9.770 ft	0.029 PSU	240.0 ml/min
3/11/2026 2:44 PM	10:00	5.245 pH	23.21 °C	67.79 µS/cm	0.169 mg/L	1.850 NTU	147.6 mV	9.770 ft	0.031 PSU	240.0 ml/min
3/11/2026 2:49 PM	15:00	5.301 pH	23.18 °C	75.83 µS/cm	0.163 mg/L	1.380 NTU	144.0 mV	9.770 ft	0.035 PSU	240.0 ml/min
3/11/2026 2:54 PM	20:00	5.348 pH	23.17 °C	84.66 µS/cm	0.159 mg/L	1.540 NTU	129.0 mV	9.760 ft	0.039 PSU	240.0 ml/min
3/11/2026 2:59 PM	25:00	5.378 pH	23.14 °C	92.14 µS/cm	0.157 mg/L	1.600 NTU	107.4 mV	9.760 ft	0.043 PSU	240.0 ml/min
3/11/2026 3:04 PM	30:00	5.408 pH	23.15 °C	99.60 µS/cm	0.149 mg/L	0.990 NTU	89.2 mV	9.750 ft	0.047 PSU	240.0 ml/min
3/11/2026 3:09 PM	35:00	5.423 pH	23.11 °C	103.5 µS/cm	0.153 mg/L	0.990 NTU	75.9 mV	9.750 ft	0.048 PSU	240.0 ml/min
3/11/2026 3:14 PM	40:00	5.436 pH	23.08 °C	105.6 µS/cm	0.151 mg/L	0.920 NTU	65.5 mV	9.750 ft	0.049 PSU	240.0 ml/min
3/11/2026 3:19 PM	45:00	5.456 pH	22.97 °C	110.0 µS/cm	0.149 mg/L	1.010 NTU	56.8 mV	9.740 ft	0.052 PSU	240.0 ml/min
3/11/2026 3:24 PM	50:00	5.449 pH	23.25 °C	108.7 µS/cm	0.147 mg/L	0.770 NTU	54.5 mV	9.700 ft	0.051 PSU	200.0 ml/min
3/11/2026 3:29 PM	55:00	5.444 pH	23.17 °C	107.6 µS/cm	0.164 mg/L	0.870 NTU	56.0 mV	9.700 ft	0.050 PSU	200.0 ml/min
3/11/2026 3:34 PM	01:00:00	5.444 pH	23.09 °C	108.3 µS/cm	0.167 mg/L	0.690 NTU	55.9 mV	9.700 ft	0.051 PSU	200.0 ml/min

Samples

Sample ID:	Description:
MCM-15	Metals, Inorganics, Alkalinity, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/11/2026 2:35:53 PM
Project: March 2026 McManus CCR Event
Operator Name: Natalie Piparo

Location Name: MCM-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.35 ft** **Total Depth: 27.35 ft** **Initial Depth to Water: 5.27 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.35 ft** **Estimated Total Volume Pumped: 6250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.26 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1197755**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/11/2026 2:35 PM	00:00	5.355 pH	29.23 °C	119.2 µS/cm	1.702 mg/L	1.100 NTU	70.2 mV	5.530 ft	0.056 PSU	250.0 ml/min
3/11/2026 2:40 PM	05:00	5.194 pH	22.17 °C	132.7 µS/cm	0.185 mg/L	0.800 NTU	66.4 mV	5.520 ft	0.063 PSU	250.0 ml/min
3/11/2026 2:45 PM	10:00	5.166 pH	21.84 °C	132.5 µS/cm	0.157 mg/L	0.730 NTU	64.0 mV	5.530 ft	0.063 PSU	250.0 ml/min
3/11/2026 2:50 PM	15:00	5.144 pH	21.81 °C	130.6 µS/cm	0.147 mg/L	0.620 NTU	69.7 mV	5.530 ft	0.062 PSU	250.0 ml/min
3/11/2026 2:55 PM	20:00	5.095 pH	21.90 °C	128.5 µS/cm	0.137 mg/L	0.530 NTU	78.1 mV	5.530 ft	0.061 PSU	250.0 ml/min
3/11/2026 3:00 PM	25:00	5.086 pH	21.99 °C	128.3 µS/cm	0.131 mg/L	0.490 NTU	87.0 mV	5.530 ft	0.061 PSU	250.0 ml/min

Samples

Sample ID:	Description:
MCM-02	Metals, Inorganics, Alkalinity, TDS, Radium
FD-02	Metals, Inorganics, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/11/2026 3:08:42 PM
Project: March 2026 McManus CCR Event
Operator Name: Ori Kimhi

Location Name: MCM-19 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.32 ft** **Total Depth: 28.32 ft** **Initial Depth to Water: 7.3 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 23.32 ft** **Estimated Total Volume Pumped: 12800 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: -0.08 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:
Prepurged 6L

Small orange particles floating in water during purge caused high turbidity

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
3/11/2026 3:08 PM	00:00	5.093 pH	29.23 °C	4,521 µS/cm	3.570 mg/L	47.80 NTU	101.8 mV	7.340 ft	2.443 PSU	200.0 ml/min
3/11/2026 3:13 PM	05:00	5.057 pH	23.03 °C	4,975 µS/cm	0.181 mg/L	27.60 NTU	102.8 mV	7.340 ft	2.705 PSU	200.0 ml/min
3/11/2026 3:18 PM	10:00	5.059 pH	23.25 °C	5,021 µS/cm	0.147 mg/L	14.70 NTU	101.1 mV	7.340 ft	2.732 PSU	200.0 ml/min
3/11/2026 3:23 PM	15:00	5.062 pH	22.99 °C	5,005 µS/cm	0.128 mg/L	13.80 NTU	101.1 mV	7.300 ft	2.723 PSU	200.0 ml/min
3/11/2026 3:28 PM	20:00	5.060 pH	23.20 °C	5,049 µS/cm	0.118 mg/L	12.80 NTU	99.9 mV	7.320 ft	2.748 PSU	200.0 ml/min
3/11/2026 3:33 PM	25:00	5.065 pH	22.88 °C	5,011 µS/cm	0.109 mg/L	11.30 NTU	100.4 mV	7.280 ft	2.726 PSU	200.0 ml/min
3/11/2026 3:38 PM	30:00	5.068 pH	22.87 °C	5,050 µS/cm	0.107 mg/L	11.00 NTU	99.2 mV	7.260 ft	2.748 PSU	200.0 ml/min
3/11/2026 3:43 PM	35:00	5.065 pH	22.77 °C	5,041 µS/cm	0.106 mg/L	9.870 NTU	99.9 mV	7.260 ft	2.743 PSU	200.0 ml/min
3/11/2026 3:48 PM	40:00	5.064 pH	22.87 °C	5,015 µS/cm	0.110 mg/L	5.290 NTU	98.9 mV	7.220 ft	2.728 PSU	160.0 ml/min
3/11/2026 3:53 PM	45:00	5.064 pH	22.91 °C	5,006 µS/cm	0.104 mg/L	4.900 NTU	99.0 mV	7.220 ft	2.723 PSU	160.0 ml/min
3/11/2026 3:58 PM	50:00	5.060 pH	22.65 °C	5,019 µS/cm	0.103 mg/L	4.710 NTU	99.3 mV	7.220 ft	2.730 PSU	160.0 ml/min
3/11/2026 4:03 PM	55:00	5.057 pH	23.32 °C	5,020 µS/cm	0.280 mg/L	5.160 NTU	93.5 mV	7.220 ft	2.731 PSU	160.0 ml/min
3/11/2026 4:08 PM	01:00:00	5.063 pH	23.05 °C	4,980 µS/cm	0.100 mg/L	6.090 NTU	100.0 mV	7.220 ft	2.708 PSU	160.0 ml/min
3/11/2026 4:13 PM	01:05:00	5.059 pH	23.05 °C	4,969 µS/cm	0.082 mg/L	6.120 NTU	100.3 mV	7.220 ft	2.701 PSU	160.0 ml/min

3/11/2026 4:18 PM	01:10:00	5.058 pH	23.14 °C	5,001 µS/cm	0.082 mg/L	4.340 NTU	100.5 mV	7.220 ft	2.720 PSU	160.0 ml/min

Samples

Sample ID:	Description:
MCM-19	Metals, Inorganics, Alkalinity, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/12/2026 8:16:16 AM
Project: March 2026 McManus CCR Event
Operator Name: Ori Kimhi

Location Name: MCM-20 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 19 ft** **Top of Screen: 13.05 ft** **Total Depth: 23.05 ft** **Initial Depth to Water: 9.65 ft**	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 18.05 ft** **Estimated Total Volume Pumped: 5500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 220 ml/min** **Final Draw Down: 0.76 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:
Prepurged 2L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
3/12/2026 8:16 AM	00:00	3.719 pH	21.14 °C	14,804 µS/cm	6.339 mg/L	4.200 NTU	182.2 mV	10.20 ft	8.711 PSU	220.0 ml/min
3/12/2026 8:21 AM	05:00	3.527 pH	20.06 °C	15,204 µS/cm	0.231 mg/L	1.200 NTU	166.5 mV	10.33 ft	8.958 PSU	220.0 ml/min
3/12/2026 8:26 AM	10:00	3.522 pH	20.10 °C	15,249 µS/cm	0.169 mg/L	1.810 NTU	140.5 mV	10.35 ft	8.986 PSU	220.0 ml/min
3/12/2026 8:31 AM	15:00	3.518 pH	20.15 °C	15,248 µS/cm	0.142 mg/L	1.520 NTU	137.7 mV	10.38 ft	8.987 PSU	220.0 ml/min
3/12/2026 8:36 AM	20:00	3.514 pH	20.22 °C	15,180 µS/cm	0.130 mg/L	1.500 NTU	137.0 mV	10.41 ft	8.944 PSU	220.0 ml/min
3/12/2026 8:41 AM	25:00	3.508 pH	20.24 °C	15,120 µS/cm	0.115 mg/L	0.820 NTU	135.8 mV	10.41 ft	8.906 PSU	220.0 ml/min

Samples

Sample ID:	Description:
MCM-20	Metals, Inorganics, Alkalinity, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/12/2026 8:21:06 AM
Project: March 2026 McManus CCR Event
Operator Name: Jay Siewert

Location Name: MCM-16 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.39 ft** **Total Depth: 28.39 ft** **Initial Depth to Water: 10.11 ft**	**Pump Type: QED Dedicated** **Tubing Type: LDPE** **Pump Intake From TOC: 23.39 ft** **Estimated Total Volume Pumped: 6900 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 230 ml/min** **Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1306331**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10	
3/12/2026 8:21 AM	00:00	5.346 pH	20.73 °C	101.1 µS/cm	0.642 mg/L	1.190 NTU	-18.5 mV	10.22 ft	0.047 PSU	230.0 ml/min
3/12/2026 8:26 AM	05:00	5.337 pH	20.79 °C	99.22 µS/cm	0.304 mg/L	0.660 NTU	-21.9 mV	10.25 ft	0.046 PSU	230.0 ml/min
3/12/2026 8:31 AM	10:00	5.282 pH	20.80 °C	97.16 µS/cm	0.240 mg/L	0.610 NTU	-49.0 mV	10.25 ft	0.045 PSU	230.0 ml/min
3/12/2026 8:36 AM	15:00	5.232 pH	20.82 °C	95.15 µS/cm	0.228 mg/L	0.550 NTU	-46.2 mV	10.25 ft	0.044 PSU	230.0 ml/min
3/12/2026 8:41 AM	20:00	5.215 pH	20.82 °C	94.70 µS/cm	0.222 mg/L	0.430 NTU	-43.7 mV	10.24 ft	0.044 PSU	230.0 ml/min
3/12/2026 8:46 AM	25:00	5.205 pH	20.84 °C	94.67 µS/cm	0.228 mg/L	0.560 NTU	-41.3 mV	10.22 ft	0.044 PSU	230.0 ml/min
3/12/2026 8:51 AM	30:00	5.204 pH	20.87 °C	94.60 µS/cm	0.223 mg/L	0.280 NTU	-39.7 mV	10.21 ft	0.044 PSU	230.0 ml/min

Samples

Sample ID:	Description:
MCM-16	Metals, Inorganics, Alkalinity, TDS, Radium

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/12/2026 8:40:33 AM
Project: March 2026 McManus Interim Performance Sampling
Operator Name: Shannon Northen

Location Name: PT-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.38 ft** **Total Depth: 24.38 ft** **Initial Depth to Water: 6.1 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LPDE** **Pump Intake From TOC: 19.38 ft** **Estimated Total Volume Pumped: 5000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.22 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1202788**

Test Notes:
Pre-purged 2.5 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 10	+/- 0.3	+/- 10	
3/12/2026 8:40 AM	00:00	6.808 pH	21.44 °C	22,051 µS/cm	0.159 mg/L	4.600 NTU	-284.9 mV	6.280 ft	13.43 PSU	200.0 ml/min
3/12/2026 8:45 AM	05:00	6.678 pH	21.18 °C	22,150 µS/cm	0.134 mg/L	4.500 NTU	-303.3 mV	6.300 ft	13.50 PSU	200.0 ml/min
3/12/2026 8:50 AM	10:00	6.668 pH	21.46 °C	22,019 µS/cm	0.119 mg/L	2.800 NTU	-297.5 mV	6.300 ft	13.41 PSU	200.0 ml/min
3/12/2026 8:55 AM	15:00	6.677 pH	21.53 °C	21,956 µS/cm	0.107 mg/L	2.980 NTU	-301.9 mV	6.300 ft	13.37 PSU	200.0 ml/min
3/12/2026 9:00 AM	20:00	6.689 pH	21.58 °C	21,721 µS/cm	0.100 mg/L	2.830 NTU	-305.3 mV	6.310 ft	13.21 PSU	200.0 ml/min
3/12/2026 9:05 AM	25:00	6.694 pH	21.59 °C	21,617 µS/cm	0.097 mg/L	2.630 NTU	-306.7 mV	6.320 ft	13.15 PSU	200.0 ml/min

Samples

Sample ID:	Description:
PT-02	Metals

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/12/2026 8:41:43 AM
Project: March 2026 McManus Interim Performance Sampling
Operator Name: Natalie Piparo

Location Name: DR-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 15 ft** **Top of Screen: 15.03 ft** **Total Depth: 30.03 ft** **Initial Depth to Water: 5.92 ft**	**Pump Type: Geotech Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 22.53 ft** **Estimated Total Volume Pumped: 3800 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 190 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1197755**

Test Notes:
Prepurged 2 L

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 1000 %	+/- 5 %	+/- 10 %	+/- 5	+/- 1000 %	+/- 0.3	+/- 1000 %	
3/12/2026 8:41 AM	00:00	6.915 pH	21.67 °C	16,123 µS/cm	0.237 mg/L	0.400 NTU	-215.2 mV	5.970 ft	9.558 PSU	190.0 ml/min
3/12/2026 8:46 AM	05:00	6.928 pH	21.85 °C	16,174 µS/cm	0.191 mg/L	0.360 NTU	-289.3 mV	5.970 ft	9.592 PSU	190.0 ml/min
3/12/2026 8:51 AM	10:00	6.935 pH	22.00 °C	15,988 µS/cm	0.168 mg/L	0.360 NTU	-213.4 mV	5.970 ft	9.473 PSU	190.0 ml/min
3/12/2026 8:56 AM	15:00	6.952 pH	22.09 °C	15,925 µS/cm	0.156 mg/L	0.400 NTU	-213.9 mV	5.970 ft	9.434 PSU	190.0 ml/min
3/12/2026 9:01 AM	20:00	6.967 pH	22.17 °C	15,906 µS/cm	0.139 mg/L	0.330 NTU	-214.3 mV	5.980 ft	9.422 PSU	190.0 ml/min

Samples

Sample ID:	Description:
DR-02	Metals, Sulfide

Created using VuSitu from In-Situ, Inc.

APPENDIX D

SURFACE WATER LABORATORY ANALYTICAL RESULTS AND FIELD SAMPLING REPORTS

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2040 Savage Road | Charleston, SC 29407
843.556.8171
gel.com

October 10, 2025

Kristen Jurinko
Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia 30308

Re: Plant McManus CCR Groundwater Compliance Sept. 2025
Work Order: 744015

Dear Kristen Jurinko:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 19, 2025. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. This report replaces the original version which is noted as SDG number 744015 in the left-hand footer of the data report. Revision 01 corrects the client's task code and sample collection dates.

The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
744015001	MCM-T2-1HT	Ground Water	09/18/25 08:42	09/19/25 16:30
744015002	MCM-T2-2HT	Ground Water	09/18/25 09:00	09/19/25 16:30
744015003	MCM-T2-2HTS	Ground Water	09/18/25 08:48	09/19/25 16:30
744015004	MCM-T2-3HT	Ground Water	09/18/25 09:23	09/19/25 16:30
744015005	MCM-T2-3HTS	Ground Water	09/18/25 09:15	09/19/25 16:30
744015006	MCM-T2-4HT	Ground Water	09/18/25 09:49	09/19/25 16:30
744015007	MCM-T2-4HTS	Ground Water	09/18/25 09:36	09/19/25 16:30
744015008	MCM-T2-4LT	Ground Water	09/17/25 12:52	09/19/25 16:30
744015009	MCM-BG-1LT	Ground Water	09/17/25 12:30	09/19/25 16:30
744015010	MCM-BG-2HT	Ground Water	09/18/25 08:21	09/19/25 16:30
744015011	MCM-CSURF-FD-01	Ground Water	09/18/25 12:00	09/19/25 16:30
744015012	MCM-CSURF-FB-01	Ground Water	09/18/25 12:44	09/19/25 16:30
744015013	MCM-CSURF-EB-01	Ground Water	09/18/25 12:40	09/19/25 16:30

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Prep Methods and Prep Dates

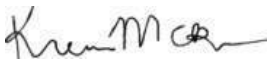
Method	Run Date ID
SW846 3005A	22-SEP-2025

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	25-SEP-2025
EPA 300.0	26-SEP-2025
EPA 300.0	30-SEP-2025
SM 2320B	02-OCT-2025
SM 2540C	25-SEP-2025
SW846 3005A/6020B	01-OCT-2025
SW846 3005A/6020B	02-OCT-2025
SW846 3005A/6020B	03-OCT-2025
SW846 3005A/6020B	06-OCT-2025

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4705.

Sincerely,



Kierra McKnight for
Abagail Martin
Project Manager

Purchase Order: GPC82177-0007
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report
for

GPCC001 Georgia Power Company

Client SDG: 744015 GEL Work Order: 744015

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

J Value is estimated

N/A RPD or %Recovery limits do not apply.

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Abagail Martin.

Reviewed by

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-T2-1HT	Project:	GPCC00105
Sample ID:	744015001	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	18-SEP-25 08:42		
Receive Date:	19-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.704	0.660	2.00	mg/L		20	CWW	09/25/25	2141	2870037	1
Chloride		9750	134	400	mg/L		2000	CWW	09/30/25	1054	2870037	2
Sulfate		1710	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As,B, Ca, Mg, K, Na) "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	RM4	10/01/25	2159	2867266	3
Magnesium		636	0.250	0.750	mg/L	1.00	25	RM4	10/01/25	2040	2867266	4
Potassium		208	2.00	7.50	mg/L	1.00	25					
Sodium		6330	16.0	50.0	mg/L	1.00	200	RM4	10/02/25	1650	2867266	5
Boron		2.75	0.130	0.375	mg/L	1.00	25	RM4	10/03/25	1652	2867266	6
Calcium		264	2.00	5.00	mg/L	1.00	25	RM4	10/06/25	1311	2867266	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		18300	23.8	100	mg/L			SC1	09/25/25	1912	2869909	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		104	0.725	2.00	mg/L			IS2	10/02/25	1235	2872494	9
Bicarbonate alkalinity (CaCO3)		104	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM12	09/22/25	0905	2867265

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-T2-1HT	Project:	GPCC00105
Sample ID:	744015001	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-T2-2HT	Project:	GPCC00105
Sample ID:	744015002	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	18-SEP-25 09:00		
Receive Date:	19-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/26/25	0052	2870037	1
Chloride		9740	134	400	mg/L		2000	CWW	09/30/25	1229	2870037	2
Sulfate		1510	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As,B, Ca, Mg, K, Na) "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	RM4	10/01/25	2223	2867266	3
Magnesium		620	0.250	0.750	mg/L	1.00	25	RM4	10/01/25	2104	2867266	4
Potassium		205	2.00	7.50	mg/L	1.00	25					
Sodium		6090	16.0	50.0	mg/L	1.00	200	RM4	10/02/25	1658	2867266	5
Boron		2.58	0.130	0.375	mg/L	1.00	25	RM4	10/03/25	1702	2867266	6
Calcium		272	2.00	5.00	mg/L	1.00	25	RM4	10/06/25	1323	2867266	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		18100	23.8	100	mg/L			SC1	09/25/25	1912	2869909	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		104	0.725	2.00	mg/L			IS2	10/02/25	1236	2872494	9
Bicarbonate alkalinity (CaCO3)		104	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM12	09/22/25	0905	2867265

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-T2-2HT	Project:	GPCC00105
Sample ID:	744015002	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-T2-2HTS	Project:	GPCC00105
Sample ID:	744015003	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	18-SEP-25 08:48		
Receive Date:	19-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.714	0.660	2.00	mg/L		20	CWW	09/26/25	0123	2870037	1
Chloride		9670	134	400	mg/L		2000	CWW	09/30/25	1301	2870037	2
Sulfate		1770	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As,B, Ca, Mg, K, Na) "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	RM4	10/01/25	2226	2867266	3
Magnesium		623	0.250	0.750	mg/L	1.00	25	RM4	10/01/25	2108	2867266	4
Potassium		209	2.00	7.50	mg/L	1.00	25					
Sodium		5710	16.0	50.0	mg/L	1.00	200	RM4	10/02/25	1702	2867266	5
Boron		2.59	0.130	0.375	mg/L	1.00	25	RM4	10/03/25	1706	2867266	6
Calcium		285	2.00	5.00	mg/L	1.00	25	RM4	10/06/25	1325	2867266	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		18200	23.8	100	mg/L			SC1	09/25/25	1912	2869909	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		101	0.725	2.00	mg/L			IS2	10/02/25	1238	2872494	9
Bicarbonate alkalinity (CaCO3)		101	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM12	09/22/25	0905	2867265

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-T2-2HTS	Project:	GPCC00105
Sample ID:	744015003	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-T2-3HT	Project:	GPCC00105
Sample ID:	744015004	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	18-SEP-25 09:23		
Receive Date:	19-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.686	0.660	2.00	mg/L		20	CWW	09/26/25	0155	2870037	1
Chloride		9500	134	400	mg/L		2000	CWW	09/30/25	1333	2870037	2
Sulfate		1600	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As,B, Ca, Mg, K, Na) "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	RM4	10/01/25	2229	2867266	3
Magnesium		639	0.250	0.750	mg/L	1.00	25	RM4	10/01/25	2111	2867266	4
Potassium		213	2.00	7.50	mg/L	1.00	25					
Sodium		6010	16.0	50.0	mg/L	1.00	200	RM4	10/02/25	1703	2867266	5
Boron		2.68	0.130	0.375	mg/L	1.00	25	RM4	10/03/25	1708	2867266	6
Calcium		303	2.00	5.00	mg/L	1.00	25	RM4	10/06/25	1327	2867266	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		17900	23.8	100	mg/L			SC1	09/25/25	1912	2869909	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		103	0.725	2.00	mg/L			IS2	10/02/25	1240	2872494	9
Bicarbonate alkalinity (CaCO3)		103	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM12	09/22/25	0905	2867265

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-T2-3HT	Project:	GPCC00105
Sample ID:	744015004	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-T2-3HTS	Project:	GPCC00105
Sample ID:	744015005	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	18-SEP-25 09:15		
Receive Date:	19-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.678	0.660	2.00	mg/L		20	CWW	09/26/25	0227	2870037	1
Chloride		9670	134	400	mg/L		2000	CWW	09/30/25	1404	2870037	2
Sulfate		1910	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As,B, Ca, Mg, K, Na) "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	RM4	10/01/25	2233	2867266	3
Magnesium		627	0.250	0.750	mg/L	1.00	25	RM4	10/01/25	2115	2867266	4
Potassium		208	2.00	7.50	mg/L	1.00	25					
Sodium		6050	16.0	50.0	mg/L	1.00	200	RM4	10/02/25	1705	2867266	5
Boron		2.83	0.130	0.375	mg/L	1.00	25	RM4	10/03/25	1710	2867266	6
Calcium		299	2.00	5.00	mg/L	1.00	25	RM4	10/06/25	1328	2867266	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		18000	23.8	100	mg/L			SC1	09/25/25	1912	2869909	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		106	0.725	2.00	mg/L			IS2	10/02/25	1242	2872494	9
Bicarbonate alkalinity (CaCO3)		106	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM12	09/22/25	0905	2867265

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-T2-3HTS	Project:	GPCC00105
Sample ID:	744015005	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-T2-4HT	Project:	GPCC00105
Sample ID:	744015006	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	18-SEP-25 09:49		
Receive Date:	19-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.740	0.660	2.00	mg/L		20	CWW	09/26/25	0259	2870037	1
Chloride		9590	134	400	mg/L		2000	CWW	09/30/25	1436	2870037	2
Sulfate		1660	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As,B, Ca, Mg, K, Na) "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	RM4	10/01/25	2242	2867266	3
Magnesium		639	0.250	0.750	mg/L	1.00	25	RM4	10/01/25	2125	2867266	4
Potassium		215	2.00	7.50	mg/L	1.00	25					
Sodium		6210	16.0	50.0	mg/L	1.00	200	RM4	10/02/25	1706	2867266	5
Boron		2.58	0.130	0.375	mg/L	1.00	25	RM4	10/03/25	1711	2867266	6
Calcium		251	2.00	5.00	mg/L	1.00	25	RM4	10/06/25	1330	2867266	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		18300	23.8	100	mg/L			SC1	09/25/25	1912	2869909	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		103	0.725	2.00	mg/L			IS2	10/02/25	1244	2872494	9
Bicarbonate alkalinity (CaCO3)		103	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM12	09/22/25	0905	2867265

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-T2-4HT	Project:	GPCC00105
Sample ID:	744015006	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-T2-4HTS	Project:	GPCC00105
Sample ID:	744015007	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	18-SEP-25 09:36		
Receive Date:	19-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/26/25	0331	2870037	1
Chloride		9490	134	400	mg/L		2000	CWW	09/30/25	1508	2870037	2
Sulfate		1430	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As,B, Ca, Mg, K, Na) "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	RM4	10/01/25	2246	2867266	3
Magnesium		613	0.250	0.750	mg/L	1.00	25	RM4	10/01/25	2128	2867266	4
Potassium		204	2.00	7.50	mg/L	1.00	25					
Sodium		5910	16.0	50.0	mg/L	1.00	200	RM4	10/02/25	1708	2867266	5
Boron		2.62	0.130	0.375	mg/L	1.00	25	RM4	10/03/25	1713	2867266	6
Calcium		302	2.00	5.00	mg/L	1.00	25	RM4	10/06/25	1332	2867266	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		18000	23.8	100	mg/L			SC1	09/25/25	1912	2869909	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		103	0.725	2.00	mg/L			IS2	10/02/25	1246	2872494	9
Bicarbonate alkalinity (CaCO3)		103	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM12	09/22/25	0905	2867265

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-T2-4HTS	Project:	GPCC00105
Sample ID:	744015007	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-T2-4LT	Project:	GPCC00105
Sample ID:	744015008	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	17-SEP-25 12:52		
Receive Date:	19-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.700	0.660	2.00	mg/L		20	CWW	09/26/25	0403	2870037	1
Chloride		9230	134	400	mg/L		2000	CWW	09/30/25	1644	2870037	2
Sulfate		1620	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As,B, Ca, Mg, K, Na) "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	RM4	10/01/25	2249	2867266	3
Magnesium		615	0.250	0.750	mg/L	1.00	25	RM4	10/01/25	2132	2867266	4
Potassium		207	2.00	7.50	mg/L	1.00	25					
Sodium		6060	16.0	50.0	mg/L	1.00	200	RM4	10/02/25	1709	2867266	5
Boron		2.47	0.130	0.375	mg/L	1.00	25	RM4	10/03/25	1715	2867266	6
Calcium		290	2.00	5.00	mg/L	1.00	25	RM4	10/06/25	1334	2867266	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		17200	23.8	100	mg/L			SC1	09/25/25	1912	2869909	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		105	0.725	2.00	mg/L			IS2	10/02/25	1248	2872494	9
Bicarbonate alkalinity (CaCO3)		105	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM12	09/22/25	0905	2867265

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-T2-4LT	Project:	GPCC00105
Sample ID:	744015008	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-BG-1LT	Project:	GPCC00105
Sample ID:	744015009	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	17-SEP-25 12:30		
Receive Date:	19-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.684	0.660	2.00	mg/L		20	CWW	09/26/25	0434	2870037	1
Chloride		9390	134	400	mg/L		2000	CWW	09/30/25	1715	2870037	2
Sulfate		1900	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As,B, Ca, Mg, K, Na) "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	RM4	10/01/25	2253	2867266	3
Magnesium		640	0.250	0.750	mg/L	1.00	25	RM4	10/01/25	2135	2867266	4
Potassium		214	2.00	7.50	mg/L	1.00	25					
Sodium		6090	16.0	50.0	mg/L	1.00	200	RM4	10/02/25	1710	2867266	5
Boron		2.69	0.130	0.375	mg/L	1.00	25	RM4	10/03/25	1717	2867266	6
Calcium		285	2.00	5.00	mg/L	1.00	25	RM4	10/06/25	1335	2867266	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		18000	23.8	100	mg/L			SC1	09/25/25	1912	2869909	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		103	0.725	2.00	mg/L			IS2	10/02/25	1249	2872494	9
Bicarbonate alkalinity (CaCO3)		103	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM12	09/22/25	0905	2867265

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-BG-1LT	Project:	GPCC00105
Sample ID:	744015009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-BG-2HT	Project:	GPCC00105
Sample ID:	744015010	Client ID:	GPCC001
Matrix:	WS		
Collect Date:	18-SEP-25 08:21		
Receive Date:	19-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.722	0.660	2.00	mg/L		20	CWW	09/26/25	0642	2870037	1
Chloride		10600	134	400	mg/L		2000	CWW	09/30/25	1747	2870037	2
Sulfate		2030	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As,B, Ca, Mg, K, Na) "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	RM4	10/02/25	1753	2867266	3
Magnesium		716	0.250	0.750	mg/L	1.00	25	RM4	10/01/25	2139	2867266	4
Potassium		246	2.00	7.50	mg/L	1.00	25					
Sodium		7050	16.0	50.0	mg/L	1.00	200	RM4	10/02/25	1712	2867266	5
Boron		3.03	0.130	0.375	mg/L	1.00	25	RM4	10/03/25	1718	2867266	6
Calcium		336	2.00	5.00	mg/L	1.00	25	RM4	10/06/25	1337	2867266	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		19700	23.8	100	mg/L			SC1	09/25/25	1912	2869909	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		107	1.04	2.86	mg/L			IS2	10/02/25	1252	2872494	9
Bicarbonate alkalinity (CaCO3)		107	1.04	2.86	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	1.04	2.86	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM12	09/22/25	0905	2867265

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-BG-2HT	Project:	GPCC00105
Sample ID:	744015010	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-CSURF-FD-01	Project:	GPCC00105
Sample ID:	744015011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	18-SEP-25 12:00		
Receive Date:	19-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	U	ND	0.660	2.00	mg/L		20	CWW	09/26/25	0817	2870037	1
Chloride		9570	134	400	mg/L		2000	CWW	09/30/25	1923	2870037	2
Sulfate		1690	266	800	mg/L		2000					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As,B, Ca, Mg, K, Na) "As Received"												
Arsenic	U	ND	0.0100	0.0250	mg/L	1.00	5	RM4	10/01/25	2300	2867266	3
Magnesium		622	0.250	0.750	mg/L	1.00	25	RM4	10/01/25	2142	2867266	4
Potassium		212	2.00	7.50	mg/L	1.00	25					
Sodium		6100	16.0	50.0	mg/L	1.00	200	RM4	10/02/25	1713	2867266	5
Boron		2.78	0.130	0.375	mg/L	1.00	25	RM4	10/03/25	1720	2867266	6
Calcium		314	2.00	5.00	mg/L	1.00	25	RM4	10/06/25	1339	2867266	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		18100	23.8	100	mg/L			SC1	09/25/25	1912	2869909	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		104	0.725	2.00	mg/L			IS2	10/02/25	1259	2872494	9
Bicarbonate alkalinity (CaCO3)		104	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM12	09/22/25	0905	2867265

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-CSURF-FD-01	Project:	GPCC00105
Sample ID:	744015011	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SW846 3005A/6020B	
6	SW846 3005A/6020B	
7	SW846 3005A/6020B	
8	SM 2540C	
9	SM 2320B	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-CSURF-FB-01	Project:	GPCC00105
Sample ID:	744015012	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	18-SEP-25 12:44		
Receive Date:	19-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/25/25	1933	2870037	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As,B, Ca, Mg, K, Na) "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	RM4	10/02/25	1647	2867266	2
Magnesium	U	ND	0.0100	0.0300	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	RM4	10/03/25	1650	2867266	3
Calcium		0.236	0.0800	0.200	mg/L	1.00	1	RM4	10/06/25	1308	2867266	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			SC1	09/25/25	1912	2869909	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			IS2	10/02/25	1300	2872494	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM12	09/22/25	0905	2867265

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-CSURF-FB-01	Project:	GPCC00105
Sample ID:	744015012	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-CSURF-EB-01	Project:	GPCC00105
Sample ID:	744015013	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	18-SEP-25 12:40		
Receive Date:	19-SEP-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CWW	09/25/25	2005	2870037	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Metals Analysis-ICP-MS												
SW846 3005A/6020B Metals (As,B, Ca, Mg, K, Na) "As Received"												
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1	RM4	10/02/25	1649	2867266	2
Magnesium		0.0380	0.0100	0.0300	mg/L	1.00	1					
Potassium	U	ND	0.0800	0.300	mg/L	1.00	1					
Sodium	U	ND	0.0800	0.250	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	RM4	10/03/25	1651	2867266	3
Calcium		0.377	0.0800	0.200	mg/L	1.00	1	RM4	10/06/25	1309	2867266	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			SC1	09/25/25	1912	2869909	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			IS2	10/02/25	1301	2872494	6
Bicarbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							
Carbonate alkalinity (CaCO3)	U	ND	0.725	2.00	mg/L							

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	MM12	09/22/25	0905	2867265

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SW846 3005A/6020B	
3	SW846 3005A/6020B	
4	SW846 3005A/6020B	
5	SM 2540C	
6	SM 2320B	

Notes:

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: October 10, 2025

Company :	Georgia Power Company
Address :	241 Ralph McGill Blvd NE Bin 10160 Atlanta, Georgia 30308
Contact:	Kristen Jurinko
Project:	Plant McManus CCR Groundwater ComplianceSept. 2025

Client Sample ID:	MCM-CSURF-EB-01	Project:	GPCC00105
Sample ID:	744015013	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

QC Summary

Report Date: October 10, 2025

Georgia Power Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, Georgia

Contact: **Kristen Jurinko**

Workorder: **744015**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2870037												
QC1206247396 744015010 DUP												
Chloride			10600		10800	mg/L	1.72			(0%-20%)	CWW	09/30/25 18:19
Fluoride		J	0.722	J	0.660	mg/L	8.97	^		(+/-2.00)		09/26/25 07:14
Sulfate			2030		2060	mg/L	1.8	^		(+/-800)		09/30/25 18:19
QC1206247397 744015001 DUP												
Chloride			9750		9870	mg/L	1.19			(0%-20%)		09/30/25 11:25
Fluoride		J	0.704	J	0.694	mg/L	1.43	^		(+/-2.00)		09/25/25 22:12
Sulfate			1710		1790	mg/L	4.94	^		(+/-800)		09/30/25 11:25
QC1206247395 LCS												
Chloride	5.00				4.65	mg/L			92.9	(90%-110%)		09/25/25 19:01
Fluoride	2.50				2.43	mg/L			97.3	(90%-110%)		
Sulfate	10.0				9.51	mg/L			95.1	(90%-110%)		
QC1206247394 MB												
Chloride				U	ND	mg/L						09/25/25 18:30
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						

QC Summary

Workorder: 744015

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2870037											
QC1206247398 744015010 MS											
Chloride	10000		10600		20900	mg/L		103	(90%-110%)	CWW	09/30/25 18:51
Fluoride	50.0	J	0.722		48.7	mg/L		95.9	(90%-110%)		09/26/25 07:46
Sulfate	20000		2030		20900	mg/L		94.3	(90%-110%)		09/30/25 18:51
QC1206247399 744015001 MS											
Chloride	10000		9750		19800	mg/L		101	(90%-110%)		09/30/25 11:57
Fluoride	50.0	J	0.704		48.4	mg/L		95.4	(90%-110%)		09/25/25 22:44
Sulfate	20000		1710		20800	mg/L		95.4	(90%-110%)		09/30/25 11:57
Metals Analysis - ICPMS											
Batch 2867266											
QC1206241307 LCS											
Arsenic	0.0500				0.0525	mg/L		105	(80%-120%)	RM4	10/01/25 20:31
Boron	0.100				0.113	mg/L		113	(80%-120%)		10/03/25 16:49
Calcium	2.00				2.31	mg/L		115	(80%-120%)		10/06/25 13:07
Magnesium	2.00				2.32	mg/L		116	(80%-120%)		10/01/25 20:31
Potassium	2.00				2.19	mg/L		109	(80%-120%)		
Sodium	2.00				2.39	mg/L		119	(80%-120%)		10/02/25 16:46
QC1206241306 MB											
Arsenic				U	ND	mg/L					10/01/25 20:28

QC Summary

Workorder: **744015**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2867266											
Boron				U	ND	mg/L				RM4	10/03/25 16:47
Calcium				U	ND	mg/L					10/06/25 13:06
Magnesium				U	ND	mg/L					10/01/25 20:28
Potassium				U	ND	mg/L					
Sodium				U	ND	mg/L					10/02/25 16:45
QC1206241308 744015001 MS											
Arsenic	0.0500	U	ND		0.0544	mg/L		99.5	(75%-125%)		10/01/25 22:03
Boron	0.100		2.75		2.74	mg/L		N/A	(75%-125%)		10/03/25 16:54
Calcium	2.00		264		277	mg/L		N/A	(75%-125%)		10/06/25 13:12
Magnesium	2.00		636		627	mg/L		N/A	(75%-125%)		10/01/25 20:44
Potassium	2.00		208		203	mg/L		N/A	(75%-125%)		
Sodium	2.00		6330		6150	mg/L		N/A	(75%-125%)		10/02/25 16:52
QC1206241309 744015001 MSD											
Arsenic	0.0500	U	ND		0.0539	mg/L	0.854	98.6	(0%-20%)		10/01/25 22:06
Boron	0.100		2.75		2.78	mg/L	1.34	N/A	(0%-20%)		10/03/25 16:56
Calcium	2.00		264		273	mg/L	1.64	N/A	(0%-20%)		10/06/25 13:14

QC Summary

Workorder: **744015**

Parmname	NOM	Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2867266											
Magnesium	2.00	636		658	mg/L	4.83		N/A	(0%-20%)	RM4	10/01/25 20:47
Potassium	2.00	208		215	mg/L	5.78		N/A	(0%-20%)		
Sodium	2.00	6330		6840	mg/L	10.7		N/A	(0%-20%)		10/02/25 16:53
QC1206241311 744015001 SDILT											
Arsenic	U	ND	U	ND	ug/L	N/A			(0%-20%)		10/01/25 22:19
Boron		2750		3390	ug/L	23.2	*		(0%-20%)		10/03/25 17:00
Calcium		264000	EU	ND	ug/L	N/A	*		(0%-20%)		10/06/25 13:18
Magnesium		636000		671000	ug/L	5.46			(0%-20%)		10/01/25 21:01
Potassium		208000		212000	ug/L	1.77			(0%-20%)		
Sodium		31700		5250	ug/L	17.1			(0%-20%)		10/02/25 16:56
Solids Analysis											
Batch 2869909											
QC1206247046 743811002 DUP											
Total Dissolved Solids		2270		2260	mg/L	0.177			(0%-5%)	SC1	09/25/25 19:12
QC1206247045 LCS											
Total Dissolved Solids	300			300	mg/L			100	(95%-105%)		09/25/25 19:12
QC1206247044 MB											
Total Dissolved Solids			U	ND	mg/L						09/25/25 19:12

QC Summary

Workorder: **744015**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Titration and Ion Analysis										
Batch 2872494										
QC1206252566 744015010 DUP										
Alkalinity, Total as CaCO3		107		106	mg/L	0.268		(0%-20%)	IS2	10/02/25 12:54
Bicarbonate alkalinity (CaCO3)		107		106	mg/L	0.268		(0%-20%)		
Carbonate alkalinity (CaCO3)	U	ND	U	ND	mg/L	N/A				
QC1206252565 LCS										
Alkalinity, Total as CaCO3	15.0			14.3	mg/L		95.3	(90%-110%)		10/02/25 12:33
QC1206252570 LCS										
Alkalinity, Total as CaCO3	50.0			53.9	mg/L		108	(90%-110%)		10/02/25 12:35
QC1206252567 744015010 MS										
Alkalinity, Total as CaCO3	71.4	107		182	mg/L		105	(80%-120%)		10/02/25 12:55

Notes:

The Qualifiers in this report are defined as follows:

U U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

J J Value is estimated

E E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 37
Analytical Batch: 2867266

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2867265

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
744015001	MCM-T2-1HT
744015002	MCM-T2-2HT
744015003	MCM-T2-2HTS
744015004	MCM-T2-3HT
744015005	MCM-T2-3HTS
744015006	MCM-T2-4HT
744015007	MCM-T2-4HTS
744015008	MCM-T2-4LT
744015009	MCM-BG-1LT
744015010	MCM-BG-2HT
744015011	MCM-CSURF-FD-01
744015012	MCM-CSURF-FB-01
744015013	MCM-CSURF-EB-01
1206241306	Method Blank (MB)**ICP-MS**
1206241307	Laboratory Control Sample (LCS)
1206241311	744015001(MCM-T2-1HTL) Serial Dilution (SD)
1206241308	744015001(MCM-T2-1HTS) Matrix Spike (MS)
1206241309	744015001(MCM-T2-1HTSD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement
For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Serial Dilution % Difference Statement

The serial dilution is used to assess matrix suppression or enhancement. Raw element concentrations 25x the IDL/MDL for CVAA, 50X the IDL/MDL for ICP and 100X the IDL/MDL for ICP-MS analyses are applicable for serial dilution assessment. Not all the applicable analytes were within the established acceptance criteria. Matrix suppression may be suspected. The data has been qualified.

Sample	Analyte	Value
1206241311 (MCM-T2-1HTSDILT)	Boron	23.2 *(0%-20%)
	Calcium	99.6 *(0%-20%)

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 1206241308 (MCM-T2-1HTMS), 1206241309 (MCM-T2-1HTMSD), 1206241311 (MCM-T2-1HTSDILT), 744015001 (MCM-T2-1HT), 744015002 (MCM-T2-2HT), 744015003 (MCM-T2-2HTS), 744015004 (MCM-T2-3HT), 744015005 (MCM-T2-3HTS), 744015006 (MCM-T2-4HT), 744015007 (MCM-T2-4HTS), 744015008 (MCM-T2-4LT), 744015009 (MCM-BG-1LT), 744015010 (MCM-BG-2HT) and 744015011 (MCM-CSURF-FD-01) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.
Per the SOP, sample 744015010 (MCM-BG-2HT) was diluted due to internal standard recoveries outside the acceptable control limits.

Analyte	744015									
	001	002	003	004	005	006	007	008	009	010
Arsenic	5X	5X	5X	5X	5X	5X	5X	5X	5X	5X
Boron	25X	25X	25X	25X	25X	25X	25X	25X	25X	25X
Calcium	25X	25X	25X	25X	25X	25X	25X	25X	25X	25X
Magnesium	25X	25X	25X	25X	25X	25X	25X	25X	25X	25X
Potassium	25X	25X	25X	25X	25X	25X	25X	25X	25X	25X
Sodium	200X	200X	200X	200X	200X	200X	200X	200X	200X	200X

Analyte	744015
	011
Arsenic	5X
Boron	25X
Calcium	25X
Magnesium	25X
Potassium	25X
Sodium	200X

General Chemistry

Product: **Ion Chromatography**
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 37
Analytical Batch: 2870037

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
744015001	MCM-T2-1HT
744015002	MCM-T2-2HT
744015003	MCM-T2-2HTS
744015004	MCM-T2-3HT
744015005	MCM-T2-3HTS
744015006	MCM-T2-4HT
744015007	MCM-T2-4HTS
744015008	MCM-T2-4LT
744015009	MCM-BG-1LT
744015010	MCM-BG-2HT
744015011	MCM-CSURF-FD-01
744015012	MCM-CSURF-FB-01
744015013	MCM-CSURF-EB-01
1206247394	Method Blank (MB)
1206247395	Laboratory Control Sample (LCS)
1206247396	744015010(MCM-BG-2HT) Sample Duplicate (DUP)
1206247397	744015001(MCM-T2-1HT) Sample Duplicate (DUP)
1206247398	744015010(MCM-BG-2HT) Matrix Spike (MS)
1206247399	744015001(MCM-T2-1HT) Matrix Spike (MS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following samples 1206247396 (MCM-BG-2HTDUP), 1206247397 (MCM-T2-1HTDUP), 1206247398 (MCM-BG-2HTMS), 1206247399 (MCM-T2-1HTMS), 744015001 (MCM-T2-1HT), 744015002 (MCM-T2-2HT), 744015003 (MCM-T2-2HTS), 744015004 (MCM-T2-3HT), 744015005 (MCM-T2-3HTS), 744015006 (MCM-T2-4HT), 744015007 (MCM-T2-4HTS), 744015008 (MCM-T2-4LT), 744015009 (MCM-BG-1LT), 744015010 (MCM-BG-2HT) and 744015011 (MCM-CSURF-FD-01) were diluted because target analyte concentrations exceeded the calibration range.
Samples 1206247396 (MCM-BG-2HTDUP), 1206247397 (MCM-T2-1HTDUP), 1206247398 (MCM-BG-2HTMS), 1206247399 (MCM-T2-1HTMS), 744015001 (MCM-T2-1HT), 744015002 (MCM-T2-2HT), 744015003 (MCM-T2-2HTS), 744015004 (MCM-T2-3HT), 744015005 (MCM-T2-3HTS), 744015006 (MCM-T2-4HT), 744015007 (MCM-T2-4HTS), 744015008 (MCM-T2-4LT), 744015009 (MCM-BG-1LT), 744015010 (MCM-BG-2HT) and 744015011 (MCM-CSURF-FD-01) were diluted to minimize matrix effects on instrument performance.
Samples 1206247396 (MCM-BG-2HTDUP), 1206247397 (MCM-T2-1HTDUP), 1206247398 (MCM-BG-2HTMS), 1206247399 (MCM-T2-1HTMS), 744015001 (MCM-T2-1HT), 744015002 (MCM-T2-2HT), 744015003 (MCM-T2-2HTS), 744015004 (MCM-T2-3HT), 744015005 (MCM-T2-3HTS), 744015006 (MCM-T2-4HT), 744015007 (MCM-T2-4HTS), 744015008 (MCM-T2-4LT), 744015009 (MCM-BG-1LT), 744015010 (MCM-BG-2HT) and 744015011 (MCM-CSURF-FD-01) were diluted based on historical data. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	744015									
	001	002	003	004	005	006	007	008	009	010

Chloride	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X
Fluoride	20X	20X	20X	20X	20X	20X	20X	20X	20X	20X
Sulfate	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X	2000X

Analyte	**744015**
	011
Chloride	2000X
Fluoride	20X
Sulfate	2000X

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2869909

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
744015001	MCM-T2-1HT
744015002	MCM-T2-2HT
744015003	MCM-T2-2HTS
744015004	MCM-T2-3HT
744015005	MCM-T2-3HTS
744015006	MCM-T2-4HT
744015007	MCM-T2-4HTS
744015008	MCM-T2-4LT
744015009	MCM-BG-1LT
744015010	MCM-BG-2HT
744015011	MCM-CSURF-FD-01
744015012	MCM-CSURF-FB-01
744015013	MCM-CSURF-EB-01
1206247044	Method Blank (MB)
1206247045	Laboratory Control Sample (LCS)
1206247046	743811002(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for approximate concentration prior to analysis. 744015001 (MCM-T2-1HT), 744015002 (MCM-T2-2HT), 744015003 (MCM-T2-2HTS), 744015004 (MCM-T2-3HT), 744015005 (MCM-T2-3HTS), 744015006 (MCM-T2-4HT), 744015007 (MCM-T2-4HTS), 744015008 (MCM-T2-4LT), 744015009 (MCM-BG-1LT), 744015010 (MCM-BG-2HT) and 744015011 (MCM-CSURF-FD-01).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2872494

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
744015001	MCM-T2-1HT
744015002	MCM-T2-2HT
744015003	MCM-T2-2HTS
744015004	MCM-T2-3HT
744015005	MCM-T2-3HTS
744015006	MCM-T2-4HT
744015007	MCM-T2-4HTS
744015008	MCM-T2-4LT
744015009	MCM-BG-1LT
744015010	MCM-BG-2HT
744015011	MCM-CSURF-FD-01
744015012	MCM-CSURF-FB-01
744015013	MCM-CSURF-EB-01
1206252565	Laboratory Control Sample (LCS)
1206252566	744015010(MCM-BG-2HT) Sample Duplicate (DUP)
1206252567	744015010(MCM-BG-2HT) Matrix Spike (MS)
1206252570	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to limited sample volume. 1206252566 (MCM-BG-2HTDUP), 1206252567 (MCM-BG-2HTMS) and 744015010 (MCM-BG-2HT).

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Page: 1 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics
Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

744015

GEL Work Order Number: ***GEL Project Manager: Erin Trent***

Client Name: Kristen Jurinko — Phone #
Project/Site Name: Plant McManus Surface Water Sampling September 2025 — Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: William Laaker, Jay Siewert, Natalie Piparo, Shannon Northen (EnSafe)
Send Results To: knjurink@southernco.com; npiparo@ensafe.com; tgodwin@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI Metals 6010/6020 (Ca, Mg, K, Na, As, B)	SM 2320B (Total Alk./Carb./Bicarb.)	SM 2540C (TDS)	EPA 300 (Cl, F, SO4)	<-- Preservative Type (6)
MCM-T2-1HT	9/18/25	0842	G	N	WS			4	X	X	X	X	
MCM-T2-2HT	9/18/25	0900	G	N	WS			4	X	X	X	X	
MCM-T2-2HTS	9/18/25	0848	G	N	WS			4	X	X	X	X	
MCM-T2-3HT	9/18/25	0923	G	N	WS			4	X	X	X	X	
MCM-T2-3HTS	9/18/25	0915	G	N	WS			4	X	X	X	X	
MCM-T2-4HT	9/18/25	0949	G	N	WS			4	X	X	X	X	
MCM-T2-4HTS	9/18/25	0936	G	N	WS			4	X	X	X	X	
MCM-T2-4LT	9/17/25	1252	G	N	WS			4	X	X	X	X	
MCM-BG-1LT	9/17/25	1230	G	N	WS			4	X	X	X	X	
MCM-BG-2HT	9/18/25	0821	G	N	WS			4	X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] EnSafe	9/19/2025	1630	[signature]	9/19/25	1630
2						
3						

TAT Requested: **Normal:** _____ **Rush:** _____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [ ] No

Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4

Additional Remarks: **Task Code: MCM-CSURF-ASSMT-2025S2**

For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** _____ *°C*

Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined

2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite

3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.

4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).

6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

Page: 2 of 2
Project # GPCC00105
GEL Quote #: GELP22-0819
COC Number [1]: _____
PO Number:

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics
Chain of Custody and Analytical Request

GEL Laboratories, LLC
2040 Savage Road
Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

GEL Work Order Number: **GEL Project Manager: Erin Trent**

Client Name: Kristen Jurinko Phone #
Project/Site Name: Plant McManus Surface Water Sampling September 2025 Fax #
Address: 241 Ralph McGill Blvd. NE, Atlanta, GA 30308
Collected By: William Laaker, Jay Siewert, Natalie Piparo, Shannon Northen (EnSafe) Send Results To: knjurink@southernco.com; npiparo@ensafe.com; tgodwin@ensafe.com

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive (If yes, please supply isotopic info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI	Metals 6010/6020 (Ca, Mg, K, Na, As, B)	SM 2320B (Total Alk./Carb./Bicarb.)	SM 2540C (TDS)	EPA 300 (Cl, F, SO4)	<-- Preservative Type (6)
MCM-CSURF-FD-01	9/18/25	----	FD	N	WS			4		X	X	X	X	
MCM-CSURF-FB-01	9/18/25	1244	FB	N	WQ			4		X	X	X	X	
MCM-CSURF-FB-			FB	N	WQ					X	X	X	X	
MCM-CSURF-EB-01	9/18/25	1240	EB	N	WQ			4		X	X	X	X	
MCM-CSURF-EB-			EB	N	WQ					X	X	X	X	

Comments
Note: extra sample is required for sample specific QC

TAT Requested: Normal: ____ Rush: ____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [ ] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [ ] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: **Task Code: MCM-CSURF-ASSMT-2025S2**
For Lab Receiving Use Only: *Custody Seal Intact?* [ ] *Yes* [ ] *No* ***Cooler Temp:*** ____ °C
Sample Collection Time Zone: [X] Eastern [ ] Pacific [ ] Central [ ] Mountain [ ] Other:

Chain of Custody Signatures

	Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1	[signature] EnSafe	9/19/25	1630	[signature]	9/19/25	1630
2						
3						

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined
2.) QC Codes: **N** = Normal Sample, **TB** = Trip Blank, **FD** = Field Duplicate, **EB** = Equipment Blank, **MS** = Matrix Spike Sample, **MSD** = Matrix Spike Duplicate Sample, **G** = Grab, **C** = Composite
3.) Field Filtered: For liquid matrices, indicate with a **- Y -** for yes the sample was field filtered or **- N -** for sample was not field filtered.
4.) Matrix Codes: **DW**=Drinking Water, **GW**=Groundwater, **SW**=Surface Water, **WW**=Waste Water, **W**=Water, **ML**=Misc Liquid, **SO**=Soil, **SD**=Sediment, **SL**=Sludge, **SS**=Solid Waste, **O**=Oil, **F**=Filter, **P**=Wipe, **U**=Urine, **F**=Fecal, **N**=Nasal
5.) Sample Analysis Requested: Analytical method requested (i.e. **8260B**, **6010B/7470A**) and number of containers provided for each (i.e. *8260B* - **3**, *6010B/7470A* - **1**).
6.) Preservative Type: **HA** = Hydrochloric Acid, **NI** = Nitric Acid, **SH** = Sodium Hydroxide, **SA** = Sulfuric Acid, **AA** = Ascorbic Acid, **HX** = Hexane, **ST** = Sodium Thiosulfate, If no preservative is added = leave field blank
7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
Cd = Cadmium **Ag**= Silver
Cr = Chromium **MR**= Misc. RCRA metals
Pb = Lead

Characteristic Hazards
FL = Flammable/Ignitable
CO = Corrosive
RE = Reactive

TSCA Regulated
PCB = Polychlorinated biphenyls

Listed Waste
LW= Listed Waste
(F,K,P and U-listed wastes.)
Waste code(s):

Other
OT= Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description:

Please provide any additional details below regarding handling and/or disposal concerns. *(i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)*

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

744015

Client: GPCC | SDG/AR/COC/Work Order: | GEL PM:

Received By: Joel Boatwright | Date Received at GEL: 09.19.25

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services Courier (Client) Other:

IR Temp gun # IR1-23 Daily Calibration Performed? Y/N

Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).	Tracking Number	Temp (C)	If over 6 °C, check if samples do not require cold preservation (ie radiochem only).
Cooler 1	3				
Cooler 2					

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, Is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Are there any sample hazards to document?		✓	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other:
E) Was a SDS received and reviewed by Lab Safety?		✓	Circle Applicable: See additional Comments below. No additional comments needed after review.

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	If there are samples requiring cold preservation, did they arrive within (0 < 6 °C)?	✓			Preservation Method: Wet Ice Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celcius
4	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5	Samples requiring chemical preservation at proper pH?	✓			Preserved per COC request or list Sample IDs and Containers Affected: If Preservation added, Lot#:
6	Do any samples require Volatile Analysis? (If yes, answer all three additional questions.)			✓	If Yes, are Encores or Soil Kits present? Yes___ No___ (If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample IDs and containers affected:
7	Samples received within holding time?	✓			IDs and tests affected:
8	Sample IDs on COC match IDs on bottles?	✓			IDs and containers affected:
9	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Missing Container (provide details) Other (describe)
11	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
12	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments:

PM (or PMA) review: Initials VM Date 9/22/25

☐ Continuation Form Required when selected

List of current GEL Certifications as of 10 October 2025

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	525-24-281-19660
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approval	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of LA	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-45
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristen N Jurinko
Southern Company
241 Ralph McGill Blvd SE
B10185
Atlanta, Georgia (St) 30308

Generated 5/29/2026 8:22:26 PM

JOB DESCRIPTION

Plant McManus Surface Water May 2026 Resample

JOB NUMBER

680-270885-1

Eurofins Savannah
7001 Chatham Center Drive
Suite 600
Savannah GA 31405

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 Drinking Water and Wastewater Southeast, LLC Project Manager.

Authorization

Generated
5/29/2026 8:22:26 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

Sample Summary

Client: Southern Company
Job ID: 680-270885-1
Project/Site: Plant McManus Surface Water May 2026
Resample

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
680-270885-1	MCM-T2-1HT	Water	05/14/26 08:08	05/15/26 11:43	Georgia (St)
680-270885-2	MCM-T2-2HT	Water	05/14/26 08:32	05/15/26 11:43	Georgia (St)
680-270885-3	MCM-T2-2HTS	Water	05/14/26 08:17	05/15/26 11:43	Georgia (St)
680-270885-4	MCM-T2-3HT	Water	05/14/26 09:06	05/15/26 11:43	Georgia (St)
680-270885-5	MCM-T2-3HTS	Water	05/14/26 08:50	05/15/26 11:43	Georgia (St)
680-270885-6	MCM-T2-4HT	Water	05/14/26 09:48	05/15/26 11:43	Georgia (St)
680-270885-7	MCM-T2-4HTS	Water	05/14/26 09:32	05/15/26 11:43	Georgia (St)
680-270885-8	MCM-T2-4LT	Water	05/14/26 13:37	05/15/26 11:43	Georgia (St)
680-270885-9	MCM-BG-1LT	Water	05/14/26 13:12	05/15/26 11:43	Georgia (St)
680-270885-10	MCM-BG-2HT	Water	05/14/26 10:18	05/15/26 11:43	Georgia (St)
680-270885-11	MCM-CSURF-FD-01	Water	05/14/26 00:00	05/15/26 11:43	Georgia (St)
680-270885-12	MCM-CSURF-FB-01	Water	05/14/26 16:12	05/15/26 11:43	Georgia (St)
680-270885-13	MCM-CSURF-EB-01	Water	05/14/26 16:20	05/15/26 11:43	Georgia (St)

Client: Southern Company
Job ID: 680-270885-1
Project/Site: Plant McManus Surface Water May 2026
Resample

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
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 680-270885-1 Eurofins Savannah

Job Narrative
680-270885-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 5/15/2026 11:43 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.6°C and 2.7°C.

HPLC/IC
Method 300.0-1993 R2.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 680-890079 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.

Method 300.0-1993 R2.1: A lesser volume of sample was used for the following samples due to the nature of the sample matrix and to bring the concentration of target analytes within the calibration range: MCM-T2-1HT (680-270885-1), MCM-T2-2HT (680-270885-2), MCM-T2-2HTS (680-270885-3), MCM-T2-3HT (680-270885-4), MCM-T2-3HTS (680-270885-5), MCM-T2-4HT (680-270885-6), MCM-T2-4HTS (680-270885-7), MCM-T2-4LT (680-270885-8), MCM-BG-1LT (680-270885-9), MCM-BG-2HT (680-270885-10), MCM-CSURF-FD-01 (680-270885-11), (680-270885-D-8 MS) and (680-270885-D-8 MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6020B - Total Recoverable: The continuing calibration verification (CCV) associated with batch 705-137182 recovered above the upper control limit for Arsenic. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 705-137182/123).

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: MCM-T2-1HT (680-270885-1), MCM-T2-2HT (680-270885-2), MCM-T2-2HTS (680-270885-3), MCM-T2-3HT (680-270885-4), MCM-T2-3HTS (680-270885-5), MCM-T2-4HT (680-270885-6), MCM-T2-4HTS (680-270885-7), MCM-T2-4LT (680-270885-8), MCM-BG-1LT (680-270885-9), MCM-BG-2HT (680-270885-10) and MCM-CSURF-FD-01 (680-270885-11).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample ID: MCM-T2-1HT

Lab Sample ID: 680-270885-1

Date Collected: 05/14/26 08:08

Matrix: Water

Date Received: 05/15/26 11:43

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14000**		2500	500	mg/L			05/19/26 22:23	2500
Fluoride	<100		250	100	mg/L			05/19/26 22:23	2500
Sulfate	**2100**	**J**	2500	1000	mg/L			05/19/26 22:23	2500

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**2.8**		0.080	0.026	mg/L		05/19/26 06:45	05/19/26 17:01	1
Calcium	**290**		1.0	0.38	mg/L		05/19/26 06:45	05/20/26 08:59	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0015**	**J**	0.0050	0.0013	mg/L		05/19/26 11:45	05/20/26 03:37	1
Magnesium	**1200**		40	6.6	mg/L		05/19/26 11:45	05/21/26 21:01	400
Potassium	**350**		40	17	mg/L		05/19/26 11:45	05/21/26 21:01	400
Sodium	**9000**		200	99	mg/L		05/19/26 11:45	05/22/26 17:04	400

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**120**		5.0	2.2	mg/L			05/15/26 17:13	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**120**		5.0	2.2	mg/L			05/15/26 17:13	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			05/15/26 17:13	1
Total Dissolved Solids (SM 2540C-2011)	**30000**		2000	2000	mg/L			05/19/26 10:35	1

Client Sample ID: MCM-T2-2HT

Lab Sample ID: 680-270885-2

Date Collected: 05/14/26 08:32

Matrix: Water

Date Received: 05/15/26 11:43

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17000**		2500	500	mg/L			05/19/26 22:55	2500
Fluoride	<100		250	100	mg/L			05/19/26 22:55	2500
Sulfate	**2500**		2500	1000	mg/L			05/19/26 22:55	2500

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**2.9**		0.080	0.026	mg/L		05/19/26 06:45	05/19/26 17:04	1
Calcium	**280**		1.0	0.38	mg/L		05/19/26 06:45	05/20/26 09:02	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0013		0.0050	0.0013	mg/L		05/19/26 11:45	05/20/26 03:43	1
Magnesium	**1000**		40	6.6	mg/L		05/19/26 11:45	05/21/26 21:05	400
Potassium	**310**		40	17	mg/L		05/19/26 11:45	05/21/26 21:05	400
Sodium	**9300**		200	99	mg/L		05/19/26 11:45	05/22/26 17:08	400

Client: Southern Company
Job ID: 680-270885-1
Project/Site: Plant McManus Surface Water May 2026
Resample

Client Sample ID: MCM-T2-2HT
Lab Sample ID: 680-270885-2
Date Collected: 05/14/26 08:32
Matrix: Water
Date Received: 05/15/26 11:43

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**120**		5.0	2.2	mg/L			05/15/26 17:23	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**120**		5.0	2.2	mg/L			05/15/26 17:23	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			05/15/26 17:23	1
Total Dissolved Solids (SM 2540C-2011)	**31000**		2000	2000	mg/L			05/19/26 10:35	1

Client Sample ID: MCM-T2-2HTS
Lab Sample ID: 680-270885-3
Date Collected: 05/14/26 08:17
Matrix: Water
Date Received: 05/15/26 11:43

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16000**		2500	500	mg/L			05/19/26 23:26	2500
Fluoride	<100		250	100	mg/L			05/19/26 23:26	2500
Sulfate	**2400**	**J**	2500	1000	mg/L			05/19/26 23:26	2500

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**2.8**		0.080	0.026	mg/L		05/19/26 06:45	05/19/26 17:07	1
Calcium	**280**		1.0	0.38	mg/L		05/19/26 06:45	05/20/26 09:11	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0013		0.0050	0.0013	mg/L		05/19/26 11:45	05/20/26 03:49	1
Magnesium	**990**		40	6.6	mg/L		05/19/26 11:45	05/21/26 21:09	400
Potassium	**290**		40	17	mg/L		05/19/26 11:45	05/21/26 21:09	400
Sodium	**7800**		200	99	mg/L		05/19/26 11:45	05/22/26 17:11	400

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**120**		5.0	2.2	mg/L			05/15/26 17:33	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**120**		5.0	2.2	mg/L			05/15/26 17:33	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			05/15/26 17:33	1
Total Dissolved Solids (SM 2540C-2011)	**32000**		2000	2000	mg/L			05/19/26 10:35	1

Client Sample ID: MCM-T2-3HT
Lab Sample ID: 680-270885-4
Date Collected: 05/14/26 09:06
Matrix: Water
Date Received: 05/15/26 11:43

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21000**		2500	500	mg/L			05/19/26 23:57	2500
Fluoride	<100		250	100	mg/L			05/19/26 23:57	2500
Sulfate	**2900**		2500	1000	mg/L			05/19/26 23:57	2500

Client: Southern Company
Job ID: 680-270885-1
Project/Site: Plant McManus Surface Water May 2026
Resample

Client Sample ID: MCM-T2-3HT
Lab Sample ID: 680-270885-4
Date Collected: 05/14/26 09:06
Matrix: Water
Date Received: 05/15/26 11:43

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**2.9**		0.080	0.026	mg/L		05/19/26 06:45	05/19/26 17:10	1
Calcium	**270**		1.0	0.38	mg/L		05/19/26 06:45	05/20/26 09:14	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0016**	**J**	0.0050	0.0013	mg/L		05/19/26 11:45	05/20/26 03:55	1
Magnesium	**970**		40	6.6	mg/L		05/19/26 11:45	05/21/26 21:12	400
Potassium	**280**		40	17	mg/L		05/19/26 11:45	05/21/26 21:12	400
Sodium	**7600**		200	99	mg/L		05/19/26 11:45	05/22/26 17:14	400

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**120**		5.0	2.2	mg/L			05/15/26 17:43	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**120**		5.0	2.2	mg/L			05/15/26 17:43	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			05/15/26 17:43	1
Total Dissolved Solids (SM 2540C-2011)	**31000**		2000	2000	mg/L			05/19/26 10:35	1

Client Sample ID: MCM-T2-3HTS
Lab Sample ID: 680-270885-5
Date Collected: 05/14/26 08:50
Matrix: Water
Date Received: 05/15/26 11:43

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18000**		2500	500	mg/L			05/20/26 00:28	2500
Fluoride	<100		250	100	mg/L			05/20/26 00:28	2500
Sulfate	**2600**		2500	1000	mg/L			05/20/26 00:28	2500

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**2.9**		0.080	0.026	mg/L		05/19/26 06:45	05/19/26 17:18	1
Calcium	**290**		1.0	0.38	mg/L		05/19/26 06:45	05/20/26 09:17	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0013		0.0050	0.0013	mg/L		05/19/26 11:45	05/20/26 04:22	1
Magnesium	**1000**		40	6.6	mg/L		05/19/26 11:45	05/21/26 21:16	400
Potassium	**350**		40	17	mg/L		05/19/26 11:45	05/22/26 17:57	400
Sodium	**8900**		200	99	mg/L		05/19/26 11:45	05/22/26 17:57	400

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**120**		5.0	2.2	mg/L			05/15/26 17:53	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**120**		5.0	2.2	mg/L			05/15/26 17:53	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			05/15/26 17:53	1

Client Sample ID: MCM-T2-3HTS
Lab Sample ID: 680-270885-5
Date Collected: 05/14/26 08:50
Matrix: Water
Date Received: 05/15/26 11:43

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	31000		2000	2000	mg/L			05/19/26 10:35	1

Client Sample ID: MCM-T2-4HT
Lab Sample ID: 680-270885-6
Date Collected: 05/14/26 09:48
Matrix: Water
Date Received: 05/15/26 11:43

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17000		2500	500	mg/L			05/20/26 00:59	2500
Fluoride	<100		250	100	mg/L			05/20/26 00:59	2500
Sulfate	2500		2500	1000	mg/L			05/20/26 00:59	2500

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.8		0.080	0.026	mg/L		05/19/26 06:45	05/19/26 17:21	1
Calcium	290		1.0	0.38	mg/L		05/19/26 06:45	05/20/26 09:20	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0024	J ^+	0.0050	0.0013	mg/L		05/19/26 12:35	05/21/26 03:34	1
Magnesium	1200		40	6.6	mg/L		05/19/26 12:35	05/29/26 16:11	400
Potassium	320		40	17	mg/L		05/19/26 12:35	05/29/26 16:11	400
Sodium	9500		200	99	mg/L		05/19/26 12:35	05/29/26 16:11	400

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	120		5.0	2.2	mg/L			05/15/26 18:24	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	120		5.0	2.2	mg/L			05/15/26 18:24	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			05/15/26 18:24	1
Total Dissolved Solids (SM 2540C-2011)	31000		2000	2000	mg/L			05/19/26 10:35	1

Client Sample ID: MCM-T2-4HTS
Lab Sample ID: 680-270885-7
Date Collected: 05/14/26 09:32
Matrix: Water
Date Received: 05/15/26 11:43

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17000		2500	500	mg/L			05/20/26 01:30	2500
Fluoride	<100		250	100	mg/L			05/20/26 01:30	2500
Sulfate	2500		2500	1000	mg/L			05/20/26 01:30	2500

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.9		0.080	0.026	mg/L		05/19/26 06:45	05/19/26 17:24	1
Calcium	290		1.0	0.38	mg/L		05/19/26 06:45	05/20/26 09:23	10

Client: Southern Company
Job ID: 680-270885-1
Project/Site: Plant McManus Surface Water May 2026
Resample

Client Sample ID: MCM-T2-4HTS
Lab Sample ID: 680-270885-7
Date Collected: 05/14/26 09:32
Matrix: Water
Date Received: 05/15/26 11:43

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0013	J	0.0050	0.0013	mg/L		05/19/26 11:45	05/20/26 04:28	1
Magnesium	1000		40	6.6	mg/L		05/19/26 11:45	05/21/26 21:19	400
Potassium	300		40	17	mg/L		05/19/26 11:45	05/21/26 21:19	400
Sodium	8900		200	99	mg/L		05/19/26 11:45	05/22/26 18:01	400

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	120		5.0	2.2	mg/L			05/15/26 18:34	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	120		5.0	2.2	mg/L			05/15/26 18:34	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			05/15/26 18:34	1
Total Dissolved Solids (SM 2540C-2011)	31000		2000	2000	mg/L			05/19/26 10:35	1

Client Sample ID: MCM-T2-4LT
Lab Sample ID: 680-270885-8
Date Collected: 05/14/26 13:37
Matrix: Water
Date Received: 05/15/26 11:43

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16000	F1	2500	500	mg/L			05/20/26 03:04	2500
Fluoride	<100		250	100	mg/L			05/20/26 03:04	2500
Sulfate	2300	J	2500	1000	mg/L			05/20/26 03:04	2500

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.6		0.080	0.026	mg/L		05/19/26 06:45	05/19/26 17:27	1
Calcium	190		0.10	0.038	mg/L		05/19/26 06:45	05/19/26 17:27	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0027	J	0.0050	0.0013	mg/L		05/19/26 12:35	05/21/26 04:04	1
Magnesium	980		40	6.6	mg/L		05/19/26 12:35	05/29/26 16:21	400
Potassium	250		40	17	mg/L		05/19/26 12:35	05/29/26 16:21	400
Sodium	8000		200	99	mg/L		05/19/26 12:35	05/29/26 16:21	400

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	120		5.0	2.2	mg/L			05/15/26 18:54	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	120		5.0	2.2	mg/L			05/15/26 18:54	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			05/15/26 18:54	1
Total Dissolved Solids (SM 2540C-2011)	27000		2000	2000	mg/L			05/19/26 10:35	1

Client Sample ID: MCM-BG-1LT
Lab Sample ID: 680-270885-9

Date Collected: 05/14/26 13:12
Matrix: Water
Date Received: 05/15/26 11:43

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18000		2500	500	mg/L			05/20/26 04:38	2500
Fluoride	<100		250	100	mg/L			05/20/26 04:38	2500
Sulfate	2600		2500	1000	mg/L			05/20/26 04:38	2500

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.8		0.080	0.026	mg/L		05/19/26 06:45	05/19/26 17:30	1
Calcium	290		1.0	0.38	mg/L		05/19/26 06:45	05/20/26 09:26	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0034	J	0.0050	0.0013	mg/L		05/19/26 12:35	05/21/26 04:06	1
Magnesium	970		40	6.6	mg/L		05/19/26 12:35	05/29/26 16:26	400
Potassium	270		40	17	mg/L		05/19/26 12:35	05/29/26 16:26	400
Sodium	8000		200	99	mg/L		05/19/26 12:35	05/29/26 16:26	400

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	120		5.0	2.2	mg/L			05/15/26 19:04	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	120		5.0	2.2	mg/L			05/15/26 19:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			05/15/26 19:04	1
Total Dissolved Solids (SM 2540C-2011)	30000		2000	2000	mg/L			05/19/26 10:35	1

Client Sample ID: MCM-BG-2HT
Lab Sample ID: 680-270885-10

Date Collected: 05/14/26 10:18
Matrix: Water
Date Received: 05/15/26 11:43

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17000		2500	500	mg/L			05/20/26 05:09	2500
Fluoride	<100		250	100	mg/L			05/20/26 05:09	2500
Sulfate	2400	J	2500	1000	mg/L			05/20/26 05:09	2500

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.7		0.080	0.026	mg/L		05/19/26 06:45	05/19/26 17:33	1
Calcium	280		1.0	0.38	mg/L		05/19/26 06:45	05/20/26 09:29	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0030	J	0.0050	0.0013	mg/L		05/19/26 12:35	05/21/26 04:08	1
Magnesium	1000		40	6.6	mg/L		05/19/26 12:35	05/29/26 16:33	400
Potassium	310		40	17	mg/L		05/19/26 12:35	05/29/26 16:33	400
Sodium	8500		200	99	mg/L		05/19/26 12:35	05/29/26 16:33	400

Client Sample ID: MCM-BG-2HT
Lab Sample ID: 680-270885-10

Date Collected: 05/14/26 10:18
Matrix: Water
Date Received: 05/15/26 11:43

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**120**		5.0	2.2	mg/L			05/15/26 19:14	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**120**		5.0	2.2	mg/L			05/15/26 19:14	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			05/15/26 19:14	1
Total Dissolved Solids (SM 2540C-2011)	**32000**		2000	2000	mg/L			05/19/26 10:35	1

Client Sample ID: MCM-CSURF-FD-01
Lab Sample ID: 680-270885-11

Date Collected: 05/14/26 00:00
Matrix: Water
Date Received: 05/15/26 11:43

Method: MCAWW 300.0-1993 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19000**		2500	500	mg/L			05/20/26 05:40	2500
Fluoride	<100		250	100	mg/L			05/20/26 05:40	2500
Sulfate	**2600**		2500	1000	mg/L			05/20/26 05:40	2500

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**2.8**		0.080	0.026	mg/L		05/19/26 06:45	05/19/26 17:36	1
Calcium	**280**		1.0	0.38	mg/L		05/19/26 06:45	05/20/26 09:32	10

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0029**	**J**	0.0050	0.0013	mg/L		05/19/26 12:35	05/21/26 04:11	1
Magnesium	**990**		40	6.6	mg/L		05/19/26 12:35	05/29/26 16:37	400
Potassium	**290**		40	17	mg/L		05/19/26 12:35	05/29/26 16:37	400
Sodium	**8100**		200	99	mg/L		05/19/26 12:35	05/29/26 16:37	400

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**120**		5.0	2.2	mg/L			05/15/26 19:24	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**120**		5.0	2.2	mg/L			05/15/26 19:24	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			05/15/26 19:24	1
Total Dissolved Solids (SM 2540C-2011)	**31000**		2000	2000	mg/L			05/19/26 10:35	1

Client Sample ID: MCM-CSURF-FB-01
Lab Sample ID: 680-270885-12

Date Collected: 05/14/26 16:12
Matrix: Water
Date Received: 05/15/26 11:43

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			05/21/26 17:30	1
Fluoride	<0.040		0.10	0.040	mg/L			05/21/26 17:30	1
Sulfate	<0.40		1.0	0.40	mg/L			05/21/26 17:30	1

Client: Southern Company
Job ID: 680-270885-1
Project/Site: Plant McManus Surface Water May 2026
Resample

Client Sample ID: MCM-CSURF-FB-01
Lab Sample ID: 680-270885-12
Date Collected: 05/14/26 16:12
Matrix: Water
Date Received: 05/15/26 11:43

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.026		0.080	0.026	mg/L		05/19/26 06:45	05/19/26 17:39	1
Calcium	<0.038		0.10	0.038	mg/L		05/19/26 06:45	05/19/26 17:39	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0013	^+	0.0050	0.0013	mg/L		05/19/26 12:35	05/21/26 03:36	1
Magnesium	<0.016		0.10	0.016	mg/L		05/19/26 12:35	05/29/26 16:40	1
Potassium	**0.073**	**J**	0.10	0.044	mg/L		05/19/26 12:35	05/29/26 16:40	1
Sodium	<0.25		0.50	0.25	mg/L		05/19/26 12:35	05/29/26 16:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	**2.8**	**J**	5.0	2.2	mg/L			05/15/26 19:34	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	**2.8**	**J**	5.0	2.2	mg/L			05/15/26 19:34	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			05/15/26 19:34	1
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			05/19/26 10:35	1

Client Sample ID: MCM-CSURF-EB-01
Lab Sample ID: 680-270885-13
Date Collected: 05/14/26 16:20
Matrix: Water
Date Received: 05/15/26 11:43

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			05/22/26 00:47	1
Fluoride	<0.040		0.10	0.040	mg/L			05/22/26 00:47	1
Sulfate	<0.40		1.0	0.40	mg/L			05/22/26 00:47	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.026		0.080	0.026	mg/L		05/19/26 06:45	05/19/26 16:52	1
Calcium	<0.038		0.10	0.038	mg/L		05/19/26 06:45	05/19/26 16:52	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0013		0.0050	0.0013	mg/L		05/20/26 10:40	05/22/26 06:28	1
Magnesium	<0.016		0.10	0.016	mg/L		05/20/26 10:40	05/22/26 06:28	1
Potassium	<0.044		0.10	0.044	mg/L		05/20/26 10:40	05/22/26 06:28	1
Sodium	<0.25		0.50	0.25	mg/L		05/20/26 10:40	05/22/26 06:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			05/15/26 19:41	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			05/15/26 19:41	1
Carbonate Alkalinity as CaCO3 (SM 2320B-2011)	<2.2		5.0	2.2	mg/L			05/15/26 19:41	1

Client: Southern Company
Job ID: 680-270885-1
Project/Site: Plant McManus Surface Water May 2026
Resample

Client Sample ID: MCM-CSURF-EB-01
Lab Sample ID: 680-270885-13
Date Collected: 05/14/26 16:20
Matrix: Water
Date Received: 05/15/26 11:43

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C-2011)	<10		10	10	mg/L			05/19/26 10:35	1

Method Summary

Client: Southern Company
Job ID: 680-270885-1
Project/Site: Plant McManus Surface Water May 2026
Resample

Method	Method Description	Protocol	Laboratory
300.0-1993 R2.1	Anions, Ion Chromatography	MCAWW	EET SAV
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
2320B-2011	Alkalinity, Total	SM	EET SAV
2540C-2011	Total Dissolved Solids (Dried at 180 °C)	SM	EET SAV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

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 ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

EET SAV = Eurofins Savannah, 7001 Chatham Center Drive, Suite 600, Savannah, GA 31405, TEL (912)354-7858

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 680-890079/3
Matrix: Water
Analysis Batch: 890079

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			05/19/26 16:40	1
Fluoride	<0.040		0.10	0.040	mg/L			05/19/26 16:40	1
Sulfate	<0.40		1.0	0.40	mg/L			05/19/26 16:40	1

Lab Sample ID: LCS 680-890079/4
Matrix: Water
Analysis Batch: 890079

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	10.7		mg/L		107	90 - 110
Fluoride	2.00	2.00		mg/L		100	90 - 110
Sulfate	10.0	9.80		mg/L		98	90 - 110

Lab Sample ID: LCSD 680-890079/5
Matrix: Water
Analysis Batch: 890079

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	10.7		mg/L		107	90 - 110	0	15
Fluoride	2.00	2.00		mg/L		100	90 - 110	0	15
Sulfate	10.0	9.83		mg/L		98	90 - 110	0	15

Lab Sample ID: 680-270885-8 MS
Matrix: Water
Analysis Batch: 890079

Client Sample ID: MCM-T2-4LT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	16000	F1	25000	47500	F1	mg/L		127	80 - 120
Fluoride	<100		5000	5280		mg/L		106	80 - 120
Sulfate	2300	J	25000	28500		mg/L		105	80 - 120

Lab Sample ID: 680-270885-8 MSD
Matrix: Water
Analysis Batch: 890079

Client Sample ID: MCM-T2-4LT
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	16000	F1	25000	47400	F1	mg/L		127	80 - 120	0	15
Fluoride	<100		5000	5290		mg/L		106	80 - 120	0	15
Sulfate	2300	J	25000	28400		mg/L		104	80 - 120	0	15

Lab Sample ID: MB 680-890122/3
Matrix: Water
Analysis Batch: 890122

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			05/21/26 15:25	1
Fluoride	<0.040		0.10	0.040	mg/L			05/21/26 15:25	1
Sulfate	<0.40		1.0	0.40	mg/L			05/21/26 15:25	1

Method: 300.0-1993 R2.1 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 680-890122/4
Matrix: Water
Analysis Batch: 890122

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	10.7		mg/L		107	90 - 110		
Fluoride			2.00	2.01		mg/L		100	90 - 110		
Sulfate			10.0	9.88		mg/L		99	90 - 110		

Lab Sample ID: LCSD 680-890122/5
Matrix: Water
Analysis Batch: 890122

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	10.7		mg/L		107	90 - 110	0	15
Fluoride			2.00	2.01		mg/L		101	90 - 110	0	15
Sulfate			10.0	9.87		mg/L		99	90 - 110	0	15

Lab Sample ID: 680-270885-12 MS
Matrix: Water
Analysis Batch: 890122

Client Sample ID: MCM-CSURF-FB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<0.20		10.0	11.3		mg/L		113	80 - 120		
Fluoride	<0.040		2.00	2.16		mg/L		108	80 - 120		
Sulfate	<0.40		10.0	10.6		mg/L		106	80 - 120		

Lab Sample ID: 680-270885-12 MSD
Matrix: Water
Analysis Batch: 890122

Client Sample ID: MCM-CSURF-FB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<0.20		10.0	11.3		mg/L		113	80 - 120	0	15
Fluoride	<0.040		2.00	2.16		mg/L		108	80 - 120	0	15
Sulfate	<0.40		10.0	10.6		mg/L		106	80 - 120	0	15

Lab Sample ID: 680-270885-13 MS
Matrix: Water
Analysis Batch: 890122

Client Sample ID: MCM-CSURF-EB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<0.20		10.0	10.2		mg/L		102	80 - 120		
Fluoride	<0.040		2.00	1.94		mg/L		97	80 - 120		
Sulfate	<0.40		10.0	9.65		mg/L		97	80 - 120		

Lab Sample ID: 680-270885-13 MSD
Matrix: Water
Analysis Batch: 890122

Client Sample ID: MCM-CSURF-EB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<0.20		10.0	10.2		mg/L		102	80 - 120	0	15
Fluoride	<0.040		2.00	1.95		mg/L		98	80 - 120	0	15
Sulfate	<0.40		10.0	9.58		mg/L		96	80 - 120	1	15

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-136183/1-A
Matrix: Water
Analysis Batch: 136691

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136183

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.026		0.080	0.026	mg/L		05/19/26 06:45	05/19/26 16:46	1
Calcium	<0.038		0.10	0.038	mg/L		05/19/26 06:45	05/19/26 16:46	1

Lab Sample ID: LCS 705-136183/2-A
Matrix: Water
Analysis Batch: 136691

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136183

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.08		mg/L		108	80 - 120
Calcium	10.0	10.3		mg/L		103	80 - 120

Lab Sample ID: 680-270885-13 MS
Matrix: Water
Analysis Batch: 136691

Client Sample ID: MCM-CSURF-EB-01
Prep Type: Total/NA
Prep Batch: 136183

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	<0.026		1.00	1.05		mg/L		105	75 - 125
Calcium	<0.038		10.0	10.2		mg/L		102	75 - 125

Lab Sample ID: 680-270885-13 MSD
Matrix: Water
Analysis Batch: 136691

Client Sample ID: MCM-CSURF-EB-01
Prep Type: Total/NA
Prep Batch: 136183

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	<0.026		1.00	1.06		mg/L		106	75 - 125	0	20
Calcium	<0.038		10.0	10.3		mg/L		103	75 - 125	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-136399/1-A
Matrix: Water
Analysis Batch: 136838

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 136399

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0013		0.0050	0.0013	mg/L		05/19/26 11:45	05/20/26 01:31	1
Magnesium	<0.016		0.10	0.016	mg/L		05/19/26 11:45	05/20/26 01:31	1
Potassium	<0.044		0.10	0.044	mg/L		05/19/26 11:45	05/20/26 01:31	1
Sodium	<0.25		0.50	0.25	mg/L		05/19/26 11:45	05/20/26 01:31	1

Lab Sample ID: LCS 705-136399/2-A
Matrix: Water
Analysis Batch: 136838

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 136399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0914		mg/L		91	80 - 120
Magnesium	1.00	0.985		mg/L		98	80 - 120
Potassium	1.00	0.970		mg/L		97	80 - 120
Sodium	1.00	1.12		mg/L		112	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 705-67134-A-2-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 136838 — **Prep Batch: 136399**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	<0.0013		0.100	0.0909		mg/L		91	75 - 125
Magnesium	2.6	F1	1.00	3.77		mg/L		120	75 - 125
Potassium	1.7	F1	1.00	2.80		mg/L		111	75 - 125
Sodium	6.1		1.00	7.42	4	mg/L		133	75 - 125

Lab Sample ID: 705-67134-A-2-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 136838 — **Prep Batch: 136399**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	<0.0013		0.100	0.0970		mg/L		97	75 - 125	6	20
Magnesium	2.6	F1	1.00	3.98	F1	mg/L		142	75 - 125	6	20
Potassium	1.7	F1	1.00	2.96	F1	mg/L		127	75 - 125	5	20
Sodium	6.1		1.00	7.65	4	mg/L		156	75 - 125	3	20

Lab Sample ID: MB 705-136421/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 137182 — **Prep Batch: 136421**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0013	^+	0.0050	0.0013	mg/L		05/19/26 12:35	05/21/26 02:48	1
Magnesium	<0.016		0.10	0.016	mg/L		05/19/26 12:35	05/21/26 02:48	1
Potassium	<0.044		0.10	0.044	mg/L		05/19/26 12:35	05/21/26 02:48	1
Sodium	<0.25		0.50	0.25	mg/L		05/19/26 12:35	05/21/26 02:48	1

Lab Sample ID: LCS 705-136421/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 137182 — **Prep Batch: 136421**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.107	^+	mg/L		107	80 - 120
Magnesium	1.00	0.991		mg/L		99	80 - 120
Potassium	1.00	1.01		mg/L		101	80 - 120
Sodium	1.00	1.08		mg/L		108	80 - 120

Lab Sample ID: 705-67115-H-2-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 137182 — **Prep Batch: 136421**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	<0.0013	^+	0.100	0.106	^+	mg/L		106	75 - 125
Magnesium	3.0		1.00	3.81		mg/L		82	75 - 125
Potassium	3.0		1.00	3.84		mg/L		83	75 - 125
Sodium	5.4		1.00	6.73	4	mg/L		136	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 705-67115-H-2-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 137182 — **Prep Batch: 136421**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	<0.0013	^+	0.100	0.104	^+	mg/L		104	75 - 125	2	20
Magnesium	3.0		1.00	3.82		mg/L		83	75 - 125	0	20
Potassium	3.0		1.00	3.84		mg/L		84	75 - 125	0	20
Sodium	5.4		1.00	6.09	4	mg/L		72	75 - 125	10	20

Lab Sample ID: MB 705-136720/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 137490 — **Prep Batch: 136720**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0013		0.0050	0.0013	mg/L		05/20/26 10:40	05/22/26 06:09	1
Magnesium	<0.016		0.10	0.016	mg/L		05/20/26 10:40	05/22/26 06:09	1
Potassium	<0.044		0.10	0.044	mg/L		05/20/26 10:40	05/22/26 06:09	1
Sodium	<0.25		0.50	0.25	mg/L		05/20/26 10:40	05/22/26 06:09	1

Lab Sample ID: LCS 705-136720/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 137490 — **Prep Batch: 136720**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0938		mg/L		94	80 - 120
Magnesium	1.00	0.975		mg/L		98	80 - 120
Potassium	1.00	0.974		mg/L		97	80 - 120
Sodium	1.00	0.993		mg/L		99	80 - 120

Lab Sample ID: 705-67216-D-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 137490 — **Prep Batch: 136720**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	<0.0013		0.100	0.0845		mg/L		84	75 - 125
Magnesium	0.62		1.00	1.57		mg/L		95	75 - 125
Potassium	1.8		1.00	2.81		mg/L		97	75 - 125
Sodium	2.2		1.00	3.24		mg/L		102	75 - 125

Lab Sample ID: 705-67216-D-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 137490 — **Prep Batch: 136720**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	<0.0013		0.100	0.0902		mg/L		90	75 - 125	7	20
Magnesium	0.62		1.00	1.51		mg/L		88	75 - 125	4	20
Potassium	1.8		1.00	2.72		mg/L		87	75 - 125	3	20
Sodium	2.2		1.00	3.13		mg/L		91	75 - 125	3	20

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-890050/4
Matrix: Water
Analysis Batch: 890050

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	<2.2		5.0	2.2	mg/L			05/15/26 16:04	1
Bicarbonate Alkalinity as CaCO3	<2.2		5.0	2.2	mg/L			05/15/26 16:04	1
Carbonate Alkalinity as CaCO3	<2.2		5.0	2.2	mg/L			05/15/26 16:04	1

Lab Sample ID: LCS 680-890050/6
Matrix: Water
Analysis Batch: 890050

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	250		mg/L		100	90 - 112

Lab Sample ID: LCSD 680-890050/31
Matrix: Water
Analysis Batch: 890050

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	262		mg/L		105	90 - 112	5	30

Lab Sample ID: 680-270885-7 DU
Matrix: Water
Analysis Batch: 890050

Client Sample ID: MCM-T2-4HTS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity as CaCO3	120		124		mg/L		2	30
Bicarbonate Alkalinity as CaCO3	120		124		mg/L		2	30
Carbonate Alkalinity as CaCO3	<2.2		<2.2		mg/L		NC	30

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 680-890074/1
Matrix: Water
Analysis Batch: 890074

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			05/19/26 10:35	1

Lab Sample ID: LCS 680-890074/2
Matrix: Water
Analysis Batch: 890074

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	2490	2560		mg/L		103	80 - 120

Lab Sample ID: LCSD 680-890074/3
Matrix: Water
Analysis Batch: 890074

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	2490	2550		mg/L		102	80 - 120	0	25

Client: Southern Company
Job ID: 680-270885-1
Project/Site: Plant McManus Surface Water May 2026
Resample

Method: 2540C-2011 - Total Dissolved Solids (Dried at 180 °C) (Continued)

Lab Sample ID: 680-270885-6 DU
Client Sample ID: MCM-T2-4HT
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 890074

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	31000			31900		mg/L				2	5

Client: Southern Company
Job ID: 680-270885-1
Project/Site: Plant McManus Surface Water May 2026
Resample

HPLC/IC

Analysis Batch: 890079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-270885-1	MCM-T2-1HT	Total/NA	Water	300.0-1993 R2.1	
680-270885-2	MCM-T2-2HT	Total/NA	Water	300.0-1993 R2.1	
680-270885-3	MCM-T2-2HTS	Total/NA	Water	300.0-1993 R2.1	
680-270885-4	MCM-T2-3HT	Total/NA	Water	300.0-1993 R2.1	
680-270885-5	MCM-T2-3HTS	Total/NA	Water	300.0-1993 R2.1	
680-270885-6	MCM-T2-4HT	Total/NA	Water	300.0-1993 R2.1	
680-270885-7	MCM-T2-4HTS	Total/NA	Water	300.0-1993 R2.1	
680-270885-8	MCM-T2-4LT	Total/NA	Water	300.0-1993 R2.1	
680-270885-9	MCM-BG-1LT	Total/NA	Water	300.0-1993 R2.1	
680-270885-10	MCM-BG-2HT	Total/NA	Water	300.0-1993 R2.1	
680-270885-11	MCM-CSURF-FD-01	Total/NA	Water	300.0-1993 R2.1	
MB 680-890079/3	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-890079/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-890079/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-270885-8 MS	MCM-T2-4LT	Total/NA	Water	300.0-1993 R2.1	
680-270885-8 MSD	MCM-T2-4LT	Total/NA	Water	300.0-1993 R2.1	

Analysis Batch: 890122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-270885-12	MCM-CSURF-FB-01	Total/NA	Water	300.0-1993 R2.1	
680-270885-13	MCM-CSURF-EB-01	Total/NA	Water	300.0-1993 R2.1	
MB 680-890122/3	Method Blank	Total/NA	Water	300.0-1993 R2.1	
LCS 680-890122/4	Lab Control Sample	Total/NA	Water	300.0-1993 R2.1	
LCSD 680-890122/5	Lab Control Sample Dup	Total/NA	Water	300.0-1993 R2.1	
680-270885-12 MS	MCM-CSURF-FB-01	Total/NA	Water	300.0-1993 R2.1	
680-270885-12 MSD	MCM-CSURF-FB-01	Total/NA	Water	300.0-1993 R2.1	
680-270885-13 MS	MCM-CSURF-EB-01	Total/NA	Water	300.0-1993 R2.1	
680-270885-13 MSD	MCM-CSURF-EB-01	Total/NA	Water	300.0-1993 R2.1	

Metals

Prep Batch: 136183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-270885-1	MCM-T2-1HT	Total/NA	Water	3010A	
680-270885-2	MCM-T2-2HT	Total/NA	Water	3010A	
680-270885-3	MCM-T2-2HTS	Total/NA	Water	3010A	
680-270885-4	MCM-T2-3HT	Total/NA	Water	3010A	
680-270885-5	MCM-T2-3HTS	Total/NA	Water	3010A	
680-270885-6	MCM-T2-4HT	Total/NA	Water	3010A	
680-270885-7	MCM-T2-4HTS	Total/NA	Water	3010A	
680-270885-8	MCM-T2-4LT	Total/NA	Water	3010A	
680-270885-9	MCM-BG-1LT	Total/NA	Water	3010A	
680-270885-10	MCM-BG-2HT	Total/NA	Water	3010A	
680-270885-11	MCM-CSURF-FD-01	Total/NA	Water	3010A	
680-270885-12	MCM-CSURF-FB-01	Total/NA	Water	3010A	
680-270885-13	MCM-CSURF-EB-01	Total/NA	Water	3010A	
MB 705-136183/1-A	Method Blank	Total/NA	Water	3010A	
LCS 705-136183/2-A	Lab Control Sample	Total/NA	Water	3010A	
680-270885-13 MS	MCM-CSURF-EB-01	Total/NA	Water	3010A	
680-270885-13 MSD	MCM-CSURF-EB-01	Total/NA	Water	3010A	

Metals

Prep Batch: 136399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-270885-1	MCM-T2-1HT	Total Recoverable	Water	3005A	
680-270885-2	MCM-T2-2HT	Total Recoverable	Water	3005A	
680-270885-3	MCM-T2-2HTS	Total Recoverable	Water	3005A	
680-270885-4	MCM-T2-3HT	Total Recoverable	Water	3005A	
680-270885-5	MCM-T2-3HTS	Total Recoverable	Water	3005A	
680-270885-7	MCM-T2-4HTS	Total Recoverable	Water	3005A	
MB 705-136399/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 705-136399/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
705-67134-A-2-B MS	Matrix Spike	Total Recoverable	Water	3005A	
705-67134-A-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 136421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-270885-6	MCM-T2-4HT	Total Recoverable	Water	3005A	
680-270885-8	MCM-T2-4LT	Total Recoverable	Water	3005A	
680-270885-9	MCM-BG-1LT	Total Recoverable	Water	3005A	
680-270885-10	MCM-BG-2HT	Total Recoverable	Water	3005A	
680-270885-11	MCM-CSURF-FD-01	Total Recoverable	Water	3005A	
680-270885-12	MCM-CSURF-FB-01	Total Recoverable	Water	3005A	
MB 705-136421/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 705-136421/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
705-67115-H-2-B MS	Matrix Spike	Total Recoverable	Water	3005A	
705-67115-H-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 136691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-270885-1	MCM-T2-1HT	Total/NA	Water	6010D	136183
680-270885-2	MCM-T2-2HT	Total/NA	Water	6010D	136183
680-270885-3	MCM-T2-2HTS	Total/NA	Water	6010D	136183
680-270885-4	MCM-T2-3HT	Total/NA	Water	6010D	136183
680-270885-5	MCM-T2-3HTS	Total/NA	Water	6010D	136183
680-270885-6	MCM-T2-4HT	Total/NA	Water	6010D	136183
680-270885-7	MCM-T2-4HTS	Total/NA	Water	6010D	136183
680-270885-8	MCM-T2-4LT	Total/NA	Water	6010D	136183
680-270885-9	MCM-BG-1LT	Total/NA	Water	6010D	136183
680-270885-10	MCM-BG-2HT	Total/NA	Water	6010D	136183
680-270885-11	MCM-CSURF-FD-01	Total/NA	Water	6010D	136183
680-270885-12	MCM-CSURF-FB-01	Total/NA	Water	6010D	136183
680-270885-13	MCM-CSURF-EB-01	Total/NA	Water	6010D	136183
MB 705-136183/1-A	Method Blank	Total/NA	Water	6010D	136183
LCS 705-136183/2-A	Lab Control Sample	Total/NA	Water	6010D	136183
680-270885-13 MS	MCM-CSURF-EB-01	Total/NA	Water	6010D	136183
680-270885-13 MSD	MCM-CSURF-EB-01	Total/NA	Water	6010D	136183

Prep Batch: 136720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-270885-13	MCM-CSURF-EB-01	Total Recoverable	Water	3005A	
MB 705-136720/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 705-136720/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
705-67216-D-1-B MS	Matrix Spike	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 136720 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
705-67216-D-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 136838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-270885-1	MCM-T2-1HT	Total Recoverable	Water	6020B	136399
680-270885-2	MCM-T2-2HT	Total Recoverable	Water	6020B	136399
680-270885-3	MCM-T2-2HTS	Total Recoverable	Water	6020B	136399
680-270885-4	MCM-T2-3HT	Total Recoverable	Water	6020B	136399
680-270885-5	MCM-T2-3HTS	Total Recoverable	Water	6020B	136399
680-270885-7	MCM-T2-4HTS	Total Recoverable	Water	6020B	136399
MB 705-136399/1-A	Method Blank	Total Recoverable	Water	6020B	136399
LCS 705-136399/2-A	Lab Control Sample	Total Recoverable	Water	6020B	136399
705-67134-A-2-B MS	Matrix Spike	Total Recoverable	Water	6020B	136399
705-67134-A-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	136399

Analysis Batch: 136850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-270885-1	MCM-T2-1HT	Total/NA	Water	6010D	136183
680-270885-2	MCM-T2-2HT	Total/NA	Water	6010D	136183
680-270885-3	MCM-T2-2HTS	Total/NA	Water	6010D	136183
680-270885-4	MCM-T2-3HT	Total/NA	Water	6010D	136183
680-270885-5	MCM-T2-3HTS	Total/NA	Water	6010D	136183
680-270885-6	MCM-T2-4HT	Total/NA	Water	6010D	136183
680-270885-7	MCM-T2-4HTS	Total/NA	Water	6010D	136183
680-270885-9	MCM-BG-1LT	Total/NA	Water	6010D	136183
680-270885-10	MCM-BG-2HT	Total/NA	Water	6010D	136183
680-270885-11	MCM-CSURF-FD-01	Total/NA	Water	6010D	136183

Analysis Batch: 137182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-270885-6	MCM-T2-4HT	Total Recoverable	Water	6020B	136421
680-270885-8	MCM-T2-4LT	Total Recoverable	Water	6020B	136421
680-270885-9	MCM-BG-1LT	Total Recoverable	Water	6020B	136421
680-270885-10	MCM-BG-2HT	Total Recoverable	Water	6020B	136421
680-270885-11	MCM-CSURF-FD-01	Total Recoverable	Water	6020B	136421
680-270885-12	MCM-CSURF-FB-01	Total Recoverable	Water	6020B	136421
MB 705-136421/1-A	Method Blank	Total Recoverable	Water	6020B	136421
LCS 705-136421/2-A	Lab Control Sample	Total Recoverable	Water	6020B	136421
705-67115-H-2-B MS	Matrix Spike	Total Recoverable	Water	6020B	136421
705-67115-H-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	136421

Analysis Batch: 137490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-270885-13	MCM-CSURF-EB-01	Total Recoverable	Water	6020B	136720
MB 705-136720/1-A	Method Blank	Total Recoverable	Water	6020B	136720
LCS 705-136720/2-A	Lab Control Sample	Total Recoverable	Water	6020B	136720
705-67216-D-1-B MS	Matrix Spike	Total Recoverable	Water	6020B	136720
705-67216-D-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	136720

Metals

Analysis Batch: 137529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-270885-1	MCM-T2-1HT	Total Recoverable	Water	6020B	136399
680-270885-2	MCM-T2-2HT	Total Recoverable	Water	6020B	136399
680-270885-3	MCM-T2-2HTS	Total Recoverable	Water	6020B	136399
680-270885-4	MCM-T2-3HT	Total Recoverable	Water	6020B	136399
680-270885-5	MCM-T2-3HTS	Total Recoverable	Water	6020B	136399
680-270885-7	MCM-T2-4HTS	Total Recoverable	Water	6020B	136399

Analysis Batch: 137648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-270885-1	MCM-T2-1HT	Total Recoverable	Water	6020B	136399
680-270885-2	MCM-T2-2HT	Total Recoverable	Water	6020B	136399
680-270885-3	MCM-T2-2HTS	Total Recoverable	Water	6020B	136399
680-270885-4	MCM-T2-3HT	Total Recoverable	Water	6020B	136399
680-270885-5	MCM-T2-3HTS	Total Recoverable	Water	6020B	136399
680-270885-7	MCM-T2-4HTS	Total Recoverable	Water	6020B	136399

Analysis Batch: 139032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-270885-6	MCM-T2-4HT	Total Recoverable	Water	6020B	136421
680-270885-8	MCM-T2-4LT	Total Recoverable	Water	6020B	136421
680-270885-9	MCM-BG-1LT	Total Recoverable	Water	6020B	136421
680-270885-10	MCM-BG-2HT	Total Recoverable	Water	6020B	136421
680-270885-11	MCM-CSURF-FD-01	Total Recoverable	Water	6020B	136421
680-270885-12	MCM-CSURF-FB-01	Total Recoverable	Water	6020B	136421

General Chemistry

Analysis Batch: 890050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-270885-1	MCM-T2-1HT	Total/NA	Water	2320B-2011	
680-270885-2	MCM-T2-2HT	Total/NA	Water	2320B-2011	
680-270885-3	MCM-T2-2HTS	Total/NA	Water	2320B-2011	
680-270885-4	MCM-T2-3HT	Total/NA	Water	2320B-2011	
680-270885-5	MCM-T2-3HTS	Total/NA	Water	2320B-2011	
680-270885-6	MCM-T2-4HT	Total/NA	Water	2320B-2011	
680-270885-7	MCM-T2-4HTS	Total/NA	Water	2320B-2011	
680-270885-8	MCM-T2-4LT	Total/NA	Water	2320B-2011	
680-270885-9	MCM-BG-1LT	Total/NA	Water	2320B-2011	
680-270885-10	MCM-BG-2HT	Total/NA	Water	2320B-2011	
680-270885-11	MCM-CSURF-FD-01	Total/NA	Water	2320B-2011	
680-270885-12	MCM-CSURF-FB-01	Total/NA	Water	2320B-2011	
680-270885-13	MCM-CSURF-EB-01	Total/NA	Water	2320B-2011	
MB 680-890050/4	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-890050/6	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-890050/31	Lab Control Sample Dup	Total/NA	Water	2320B-2011	
680-270885-7 DU	MCM-T2-4HTS	Total/NA	Water	2320B-2011	

Analysis Batch: 890074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-270885-1	MCM-T2-1HT	Total/NA	Water	2540C-2011	

General Chemistry (Continued)

Analysis Batch: 890074 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-270885-2	MCM-T2-2HT	Total/NA	Water	2540C-2011	
680-270885-3	MCM-T2-2HTS	Total/NA	Water	2540C-2011	
680-270885-4	MCM-T2-3HT	Total/NA	Water	2540C-2011	
680-270885-5	MCM-T2-3HTS	Total/NA	Water	2540C-2011	
680-270885-6	MCM-T2-4HT	Total/NA	Water	2540C-2011	
680-270885-7	MCM-T2-4HTS	Total/NA	Water	2540C-2011	
680-270885-8	MCM-T2-4LT	Total/NA	Water	2540C-2011	
680-270885-9	MCM-BG-1LT	Total/NA	Water	2540C-2011	
680-270885-10	MCM-BG-2HT	Total/NA	Water	2540C-2011	
680-270885-11	MCM-CSURF-FD-01	Total/NA	Water	2540C-2011	
680-270885-12	MCM-CSURF-FB-01	Total/NA	Water	2540C-2011	
680-270885-13	MCM-CSURF-EB-01	Total/NA	Water	2540C-2011	
MB 680-890074/1	Method Blank	Total/NA	Water	2540C-2011	
LCS 680-890074/2	Lab Control Sample	Total/NA	Water	2540C-2011	
LCSD 680-890074/3	Lab Control Sample Dup	Total/NA	Water	2540C-2011	
680-270885-6 DU	MCM-T2-4HT	Total/NA	Water	2540C-2011	

Lab Chronicle

Client: Southern Company
Job ID: 680-270885-1
Project/Site: Plant McManus Surface Water May 2026
Resample

Client Sample ID: MCM-T2-1HT
Lab Sample ID: 680-270885-1
Date Collected: 05/14/26 08:08
Matrix: Water
Date Received: 05/15/26 11:43

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		2500	2 mL	2 mL	890079	05/19/26 22:23	AS	EET SAV
	Instrument ID: CICR									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		1			136691	05/19/26 17:01	DS	EET ATL
	Instrument ID: OES 2									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		10			136850	05/20/26 08:59	DS	EET ATL
	Instrument ID: OES 2									
Total Recoverable	Prep	3005A			50 mL	50 mL	136399	05/19/26 11:45	BR	EET ATL
Total Recoverable	Analysis	6020B		1			136838	05/20/26 03:37	IF	EET ATL
	Instrument ID: ICPMS-4									
Total Recoverable	Prep	3005A			50 mL	50 mL	136399	05/19/26 11:45	BR	EET ATL
Total Recoverable	Analysis	6020B		400			137529	05/21/26 21:01	IF	EET ATL
	Instrument ID: ICPMS-4									
Total Recoverable	Prep	3005A			50 mL	50 mL	136399	05/19/26 11:45	BR	EET ATL
Total Recoverable	Analysis	6020B		400			137648	05/22/26 17:04	TT	EET ATL
	Instrument ID: ICPMS-4									
Total/NA	Analysis	2320B-2011		1			890050	05/15/26 17:13	BWR	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	1 mL	200 mL	890074	05/19/26 10:35	BWR	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-T2-2HT
Lab Sample ID: 680-270885-2
Date Collected: 05/14/26 08:32
Matrix: Water
Date Received: 05/15/26 11:43

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		2500	2 mL	2 mL	890079	05/19/26 22:55	AS	EET SAV
	Instrument ID: CICR									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		1			136691	05/19/26 17:04	DS	EET ATL
	Instrument ID: OES 2									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		10			136850	05/20/26 09:02	DS	EET ATL
	Instrument ID: OES 2									
Total Recoverable	Prep	3005A			50 mL	50 mL	136399	05/19/26 11:45	BR	EET ATL
Total Recoverable	Analysis	6020B		1			136838	05/20/26 03:43	IF	EET ATL
	Instrument ID: ICPMS-4									
Total Recoverable	Prep	3005A			50 mL	50 mL	136399	05/19/26 11:45	BR	EET ATL
Total Recoverable	Analysis	6020B		400			137529	05/21/26 21:05	IF	EET ATL
	Instrument ID: ICPMS-4									
Total Recoverable	Prep	3005A			50 mL	50 mL	136399	05/19/26 11:45	BR	EET ATL
Total Recoverable	Analysis	6020B		400			137648	05/22/26 17:08	TT	EET ATL
	Instrument ID: ICPMS-4									

Lab Chronicle

Client: Southern Company
Job ID: 680-270885-1
Project/Site: Plant McManus Surface Water May 2026
Resample

Client Sample ID: MCM-T2-2HT
Lab Sample ID: 680-270885-2
Date Collected: 05/14/26 08:32
Matrix: Water
Date Received: 05/15/26 11:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2320B-2011		1			890050	05/15/26 17:23	BWR	EET SAV
Total/NA	Analysis	2540C-2011		1	1 mL	200 mL	890074	05/19/26 10:35	BWR	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-T2-2HTS
Lab Sample ID: 680-270885-3
Date Collected: 05/14/26 08:17
Matrix: Water
Date Received: 05/15/26 11:43

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		2500	2 mL	2 mL	890079	05/19/26 23:26	AS	EET SAV
	Instrument ID: CICR									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		1			136691	05/19/26 17:07	DS	EET ATL
	Instrument ID: OES 2									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		10			136850	05/20/26 09:11	DS	EET ATL
	Instrument ID: OES 2									
Total Recoverable	Prep	3005A			50 mL	50 mL	136399	05/19/26 11:45	BR	EET ATL
Total Recoverable	Analysis	6020B		1			136838	05/20/26 03:49	IF	EET ATL
	Instrument ID: ICPMS-4									
Total Recoverable	Prep	3005A			50 mL	50 mL	136399	05/19/26 11:45	BR	EET ATL
Total Recoverable	Analysis	6020B		400			137529	05/21/26 21:09	IF	EET ATL
	Instrument ID: ICPMS-4									
Total Recoverable	Prep	3005A			50 mL	50 mL	136399	05/19/26 11:45	BR	EET ATL
Total Recoverable	Analysis	6020B		400			137648	05/22/26 17:11	TT	EET ATL
	Instrument ID: ICPMS-4									
Total/NA	Analysis	2320B-2011		1			890050	05/15/26 17:33	BWR	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	1 mL	200 mL	890074	05/19/26 10:35	BWR	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-T2-3HT
Lab Sample ID: 680-270885-4
Date Collected: 05/14/26 09:06
Matrix: Water
Date Received: 05/15/26 11:43

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		2500	2 mL	2 mL	890079	05/19/26 23:57	AS	EET SAV
	Instrument ID: CICR									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		1			136691	05/19/26 17:10	DS	EET ATL
	Instrument ID: OES 2									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		10			136850	05/20/26 09:14	DS	EET ATL
	Instrument ID: OES 2									

Lab Chronicle

Client: Southern Company
Job ID: 680-270885-1
Project/Site: Plant McManus Surface Water May 2026
Resample

Client Sample ID: MCM-T2-3HT

Lab Sample ID: 680-270885-4
Date Collected: 05/14/26 09:06
Matrix: Water
Date Received: 05/15/26 11:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	136399	05/19/26 11:45	BR	EET ATL
Total Recoverable	Analysis	6020B		1			136838	05/20/26 03:55	IF	EET ATL
	Instrument ID: ICPMS-4									
Total Recoverable	Prep	3005A			50 mL	50 mL	136399	05/19/26 11:45	BR	EET ATL
Total Recoverable	Analysis	6020B		400			137529	05/21/26 21:12	IF	EET ATL
	Instrument ID: ICPMS-4									
Total Recoverable	Prep	3005A			50 mL	50 mL	136399	05/19/26 11:45	BR	EET ATL
Total Recoverable	Analysis	6020B		400			137648	05/22/26 17:14	TT	EET ATL
	Instrument ID: ICPMS-4									
Total/NA	Analysis	2320B-2011		1			890050	05/15/26 17:43	BWR	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	1 mL	200 mL	890074	05/19/26 10:35	BWR	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-T2-3HTS

Lab Sample ID: 680-270885-5
Date Collected: 05/14/26 08:50
Matrix: Water
Date Received: 05/15/26 11:43

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		2500	2 mL	2 mL	890079	05/20/26 00:28	AS	EET SAV
	Instrument ID: CICR									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		1			136691	05/19/26 17:18	DS	EET ATL
	Instrument ID: OES 2									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		10			136850	05/20/26 09:17	DS	EET ATL
	Instrument ID: OES 2									
Total Recoverable	Prep	3005A			50 mL	50 mL	136399	05/19/26 11:45	BR	EET ATL
Total Recoverable	Analysis	6020B		1			136838	05/20/26 04:22	IF	EET ATL
	Instrument ID: ICPMS-4									
Total Recoverable	Prep	3005A			50 mL	50 mL	136399	05/19/26 11:45	BR	EET ATL
Total Recoverable	Analysis	6020B		400			137529	05/21/26 21:16	IF	EET ATL
	Instrument ID: ICPMS-4									
Total Recoverable	Prep	3005A			50 mL	50 mL	136399	05/19/26 11:45	BR	EET ATL
Total Recoverable	Analysis	6020B		400			137648	05/22/26 17:57	TT	EET ATL
	Instrument ID: ICPMS-4									
Total/NA	Analysis	2320B-2011		1			890050	05/15/26 17:53	BWR	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	1 mL	200 mL	890074	05/19/26 10:35	BWR	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Job ID: 680-270885-1
Project/Site: Plant McManus Surface Water May 2026
Resample

Client Sample ID: MCM-T2-4HT
Lab Sample ID: 680-270885-6

Date Collected: 05/14/26 09:48
Matrix: Water
Date Received: 05/15/26 11:43

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		2500	2 mL	2 mL	890079	05/20/26 00:59	AS	EET SAV
	Instrument ID: CICR									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		1			136691	05/19/26 17:21	DS	EET ATL
	Instrument ID: OES 2									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		10			136850	05/20/26 09:20	DS	EET ATL
	Instrument ID: OES 2									
Total Recoverable	Prep	3005A			50 mL	50 mL	136421	05/19/26 12:35	BR	EET ATL
Total Recoverable	Analysis	6020B		1			137182	05/21/26 03:34	TT	EET ATL
	Instrument ID: ICPMS-2									
Total Recoverable	Prep	3005A			50 mL	50 mL	136421	05/19/26 12:35	BR	EET ATL
Total Recoverable	Analysis	6020B		400			139032	05/29/26 16:11	IF	EET ATL
	Instrument ID: ICPMS-4									
Total/NA	Analysis	2320B-2011		1			890050	05/15/26 18:24	BWR	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	1 mL	200 mL	890074	05/19/26 10:35	BWR	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-T2-4HTS
Lab Sample ID: 680-270885-7

Date Collected: 05/14/26 09:32
Matrix: Water
Date Received: 05/15/26 11:43

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		2500	2 mL	2 mL	890079	05/20/26 01:30	AS	EET SAV
	Instrument ID: CICR									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		1			136691	05/19/26 17:24	DS	EET ATL
	Instrument ID: OES 2									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		10			136850	05/20/26 09:23	DS	EET ATL
	Instrument ID: OES 2									
Total Recoverable	Prep	3005A			50 mL	50 mL	136399	05/19/26 11:45	BR	EET ATL
Total Recoverable	Analysis	6020B		1			136838	05/20/26 04:28	IF	EET ATL
	Instrument ID: ICPMS-4									
Total Recoverable	Prep	3005A			50 mL	50 mL	136399	05/19/26 11:45	BR	EET ATL
Total Recoverable	Analysis	6020B		400			137529	05/21/26 21:19	IF	EET ATL
	Instrument ID: ICPMS-4									
Total Recoverable	Prep	3005A			50 mL	50 mL	136399	05/19/26 11:45	BR	EET ATL
Total Recoverable	Analysis	6020B		400			137648	05/22/26 18:01	TT	EET ATL
	Instrument ID: ICPMS-4									
Total/NA	Analysis	2320B-2011		1			890050	05/15/26 18:34	BWR	EET SAV
	Instrument ID: MANTECH 2									

Lab Chronicle

Client: Southern Company
Job ID: 680-270885-1
Project/Site: Plant McManus Surface Water May 2026
Resample

Client Sample ID: MCM-T2-4HTS
Lab Sample ID: 680-270885-7
Date Collected: 05/14/26 09:32
Matrix: Water
Date Received: 05/15/26 11:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540C-2011		1	1 mL	200 mL	890074	05/19/26 10:35	BWR	EET SAV

Client Sample ID: MCM-T2-4LT
Lab Sample ID: 680-270885-8
Date Collected: 05/14/26 13:37
Matrix: Water
Date Received: 05/15/26 11:43

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		2500	2 mL	2 mL	890079	05/20/26 03:04	AS	EET SAV
	Instrument ID: CICR									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		1			136691	05/19/26 17:27	DS	EET ATL
	Instrument ID: OES 2									
Total Recoverable	Prep	3005A			50 mL	50 mL	136421	05/19/26 12:35	BR	EET ATL
Total Recoverable	Analysis	6020B		1			137182	05/21/26 04:04	TT	EET ATL
	Instrument ID: ICPMS-2									
Total Recoverable	Prep	3005A			50 mL	50 mL	136421	05/19/26 12:35	BR	EET ATL
Total Recoverable	Analysis	6020B		400			139032	05/29/26 16:21	IF	EET ATL
	Instrument ID: ICPMS-4									
Total/NA	Analysis	2320B-2011		1			890050	05/15/26 18:54	BWR	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	1 mL	200 mL	890074	05/19/26 10:35	BWR	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-BG-1LT
Lab Sample ID: 680-270885-9
Date Collected: 05/14/26 13:12
Matrix: Water
Date Received: 05/15/26 11:43

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		2500	2 mL	2 mL	890079	05/20/26 04:38	AS	EET SAV
	Instrument ID: CICR									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		1			136691	05/19/26 17:30	DS	EET ATL
	Instrument ID: OES 2									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		10			136850	05/20/26 09:26	DS	EET ATL
	Instrument ID: OES 2									
Total Recoverable	Prep	3005A			50 mL	50 mL	136421	05/19/26 12:35	BR	EET ATL
Total Recoverable	Analysis	6020B		1			137182	05/21/26 04:06	TT	EET ATL
	Instrument ID: ICPMS-2									
Total Recoverable	Prep	3005A			50 mL	50 mL	136421	05/19/26 12:35	BR	EET ATL
Total Recoverable	Analysis	6020B		400			139032	05/29/26 16:26	IF	EET ATL
	Instrument ID: ICPMS-4									
Total/NA	Analysis	2320B-2011		1			890050	05/15/26 19:04	BWR	EET SAV
	Instrument ID: MANTECH 2									

Lab Chronicle

Client: Southern Company
Job ID: 680-270885-1
Project/Site: Plant McManus Surface Water May 2026
Resample

Client Sample ID: MCM-BG-1LT
Lab Sample ID: 680-270885-9
Date Collected: 05/14/26 13:12
Matrix: Water
Date Received: 05/15/26 11:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540C-2011		1	1 mL	200 mL	890074	05/19/26 10:35	BWR	EET SAV

Client Sample ID: MCM-BG-2HT
Lab Sample ID: 680-270885-10
Date Collected: 05/14/26 10:18
Matrix: Water
Date Received: 05/15/26 11:43

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		2500	2 mL	2 mL	890079	05/20/26 05:09	AS	EET SAV
	Instrument ID: CICR									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		1			136691	05/19/26 17:33	DS	EET ATL
	Instrument ID: OES 2									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		10			136850	05/20/26 09:29	DS	EET ATL
	Instrument ID: OES 2									
Total Recoverable	Prep	3005A			50 mL	50 mL	136421	05/19/26 12:35	BR	EET ATL
Total Recoverable	Analysis	6020B		1			137182	05/21/26 04:08	TT	EET ATL
	Instrument ID: ICPMS-2									
Total Recoverable	Prep	3005A			50 mL	50 mL	136421	05/19/26 12:35	BR	EET ATL
Total Recoverable	Analysis	6020B		400			139032	05/29/26 16:33	IF	EET ATL
	Instrument ID: ICPMS-4									
Total/NA	Analysis	2320B-2011		1			890050	05/15/26 19:14	BWR	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	1 mL	200 mL	890074	05/19/26 10:35	BWR	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-CSURF-FD-01
Lab Sample ID: 680-270885-11
Date Collected: 05/14/26 00:00
Matrix: Water
Date Received: 05/15/26 11:43

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		2500	2 mL	2 mL	890079	05/20/26 05:40	AS	EET SAV
	Instrument ID: CICR									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		1			136691	05/19/26 17:36	DS	EET ATL
	Instrument ID: OES 2									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		10			136850	05/20/26 09:32	DS	EET ATL
	Instrument ID: OES 2									
Total Recoverable	Prep	3005A			50 mL	50 mL	136421	05/19/26 12:35	BR	EET ATL
Total Recoverable	Analysis	6020B		1			137182	05/21/26 04:11	TT	EET ATL
	Instrument ID: ICPMS-2									
Total Recoverable	Prep	3005A			50 mL	50 mL	136421	05/19/26 12:35	BR	EET ATL
Total Recoverable	Analysis	6020B		400			139032	05/29/26 16:37	IF	EET ATL
	Instrument ID: ICPMS-4									

Lab Chronicle

Client: Southern Company
Job ID: 680-270885-1
Project/Site: Plant McManus Surface Water May 2026
Resample

Client Sample ID: MCM-CSURF-FD-01
Lab Sample ID: 680-270885-11
Date Collected: 05/14/26 00:00
Matrix: Water
Date Received: 05/15/26 11:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2320B-2011		1			890050	05/15/26 19:24	BWR	EET SAV
Total/NA	Analysis	2540C-2011		1	1 mL	200 mL	890074	05/19/26 10:35	BWR	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-CSURF-FB-01
Lab Sample ID: 680-270885-12
Date Collected: 05/14/26 16:12
Matrix: Water
Date Received: 05/15/26 11:43

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	2 mL	2 mL	890122	05/21/26 17:30	AS	EET SAV
	Instrument ID: CICR									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		1			136691	05/19/26 17:39	DS	EET ATL
	Instrument ID: OES 2									
Total Recoverable	Prep	3005A			50 mL	50 mL	136421	05/19/26 12:35	BR	EET ATL
Total Recoverable	Analysis	6020B		1			137182	05/21/26 03:36	TT	EET ATL
	Instrument ID: ICPMS-2									
Total Recoverable	Prep	3005A			50 mL	50 mL	136421	05/19/26 12:35	BR	EET ATL
Total Recoverable	Analysis	6020B		1			139032	05/29/26 16:40	IF	EET ATL
	Instrument ID: ICPMS-4									
Total/NA	Analysis	2320B-2011		1			890050	05/15/26 19:34	BWR	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	890074	05/19/26 10:35	BWR	EET SAV
	Instrument ID: NOEQUIP									

Client Sample ID: MCM-CSURF-EB-01
Lab Sample ID: 680-270885-13
Date Collected: 05/14/26 16:20
Matrix: Water
Date Received: 05/15/26 11:43

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	2 mL	2 mL	890122	05/22/26 00:47	AS	EET SAV
	Instrument ID: CICR									
Total/NA	Prep	3010A			50 mL	50 mL	136183	05/19/26 06:45	BR	EET ATL
Total/NA	Analysis	6010D		1			136691	05/19/26 16:52	DS	EET ATL
	Instrument ID: OES 2									
Total Recoverable	Prep	3005A			50 mL	50 mL	136720	05/20/26 10:40	TR	EET ATL
Total Recoverable	Analysis	6020B		1			137490	05/22/26 06:28	TT	EET ATL
	Instrument ID: ICPMS-3									
Total/NA	Analysis	2320B-2011		1			890050	05/15/26 19:41	BWR	EET SAV
	Instrument ID: MANTECH 2									
Total/NA	Analysis	2540C-2011		1	200 mL	200 mL	890074	05/19/26 10:35	BWR	EET SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Southern Company
Job ID: 680-270885-1
Project/Site: Plant McManus Surface Water May 2026
Resample

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

EET SAV = Eurofins Savannah, 7001 Chatham Center Drive, Suite 600, Savannah, GA 31405, TEL (912)354-7858

Accreditation/Certification Summary

Client: Southern Company
Job ID: 680-270885-1
Project/Site: Plant McManus Surface Water May 2026
Resample

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87052	06-30-26
Georgia	State	E87052	06-30-26

Laboratory: Eurofins Atlanta

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
AIHA LAP, LLC	Environmental Lead Laboratory Accreditation Program (ELLAP)	LAP-100671	06-01-26
AIHA LAP, LLC	Industrial Hygiene Laboratory Accreditation Program (IHLAP)	LAP-100671	06-01-26
Florida	NELAP	E87582	06-30-26
Georgia	State	E87582	06-30-26
Georgia (DW)	State	800	04-25-26 *
Kentucky (UST)	State	123046	06-30-26
North Carolina (WW/SW)	State	562	12-31-26
South Carolina	State	98016	06-30-26
USDA	US Federal Programs	525-23-143-96227A1	05-24-26 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Savannah
7001 Chatham Center Drive Suite 600
Savannah, GA 31405
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jay Siewert William Laaker (EnSafe)	Lab PM: David Fuller / Phone 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kristen Jurinko, Kevin Stephenson	Phone:	E-Mail: David Fuller@et eurofinsus com	State of Origin: GA	Page: Page 1 of 2
Company: Southern Company	PWSID:	Analysis Requested		Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested:			
City: Atlanta	TAT Requested (days): Standard			
State, Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project #: (DO NOT REMOVE) 68027841			
Email: KNJURINK@SOUTHERNCO COM, KMSTEPHE@SOUTHERNCO CON	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Surface Water Sampling May 2026 Resample	Project #:			
Site:	SSOW#:			

680-270885 Chain of Custody

Preservation Codes

HCL, NaOH, Zn Acetate, Nitric Acid, NaHSO4, MeOH, Amchlor, Ascorbic Acid, 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, Y Trizma, Z other (specify), Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Metals 6010/6020 (Ca, Mg, K, Na, As, B)	SM 2320B (Total Alk./Carb./Bicarb.)	SM 2540C (TDS)	EPA 300 (Cl, F, SO4)	Total Number of containers	Task_Code MCM-CSURF-ASSMT-2026S1R1 / Special Instructions/Note
			Preservation Code				D	N	N	N		
MCM-T2-1HT	5/14/26	0808	G	WS	N		X	X	X	X	4	
MCM-T2-2HT	5/14/26	0832	G	WS	N		X	X	X	X	4	
MCM-T2-2HTS	5/14/26	0817	G	WS	N		X	X	X	X	4	
MCM-T2-3HT	5/14/26	0906	G	WS	N		X	X	X	X	4	
MCM-T2-3HTS	5/14/26	0850	G	WS	N		X	X	X	X	4	
MCM-T2-4HT	5/14/26	0948	G	WS	N		X	X	X	X	4	
MCM-T2-4HTS	5/14/26	0932	G	WS	N		X	X	X	X	4	
MCM-T2-4LT	5/14/26	1337	G	WS	N		X	X	X	X	4	
MCM-BG-1LT	5/14/26	1312	G	WS	N		X	X	X	X	4	
MCM-BG-2HT	5/14/26	1018	G	WS	N		X	X	X	X	4	
MCM-CSURF-FD-01	5/14/26	—	G	WS	N		X	X	X	X	4	

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.

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	5/15/26 1143	EnSafe		5/15/26 1143	
Relinquished by			Received by		
Relinquished by			Received by		

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.	2 0/2 6 2.1/2.7

Eurofins Savannah
7001 Chatham Center Drive Suite 600
Savannah GA 31405
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jay Siewert, William Laaker (EnSafe)	Lab PM: David Fuller / Phone 770-344-8986	Carrier Tracking No(s)	COC No
Client Contact: Kristen Jurinko, Kevin Stephenson	Phone	E-Mail: David Fuller@et eurofinsus com	State of Origin: GA	Page: Page 2 of 2
Company: Southern Company	PWSID			Job #:
Address: 241 Ralph McGill Blvd SE B10185	Due Date Requested			
City: Atlanta	TAT Requested (days): Standard			
State Zip: GA, 30308	Compliance Project: Δ Yes Δ No			
Phone: 404-506-7116(Tel)	Lab Project # (DO NOT REMOVE): 68027841			
Email: KNJURINK@SOUTHERNCO COM, KMSTEPHE@SOUTHERNCO COM	Lab PO #: GPC82130-0001			
Project Name: Plant McManus Surface Water Sampling-~~March~~ May 2026 Resample	Project #:			
Site	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, Y Trizma, Z other (specify)

Other

Task_Code: MCM-CSURF-ASSMT-2026S1R1

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Metals 6010/6020 (Ca, Mg, K, Na, As, B)	SM 2320B (Total Alk./Carb./Bicarb.)	SM 2540C (TDS)	EPA 300 (Cl, F, SO4)	Total Number of containers	Special Instructions/Note
			Preservation Code				D	N	N	N		
MCM-CSURF-FB-01	5/14/26	1612	G	WQ	N		X	X	X	X	4	
MCM-CSURF-FB-			G	WQ	N		X	X	X	X	4	
MCM-CSURF-EB-01	5/14/26	1620	G	WQ	N		X	X	X	X	4	
MCM-CSURF-EB-			G	WQ	N		X	X	X	X	4	

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:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	5/15/26 1143	EnSafe		5/15/26 1143	
Relinquished by					
Relinquished by					

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.	2.0/2.6 2.1/2.7

Eurofins Savannah
7001 Chatham Center Drive Suite 600
Savannah, GA 31405
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: 680-809872.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia (St)	Page: Page 1 of 2
Company: Eurofins Environment Testing Southeast L		Accreditations Required (See note): NELAP - Florida; State - Georgia		Job #: 680-270885-1
Address: 3080 Presidential Dr, ,	Due Date Requested: 5/29/2026			Preservation Codes: -
City: Atlanta	TAT Requested (days): N/A			
State, Zip: GA, 30340				
Phone: 770-457-8177(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Plant McManus Surface Water May 2026 Resample	Project #: 68027841			
Site: N/A	SSOW#: N/A			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)	6010D/3010AApp III Metals	6020B/3005ASelect 4 Metals (As,Mg,K,Na)	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MCM-T2-1HT (680-270885-1)	5/14/26	08:08 Eastern	G	Water			X	X	1	Boron, Ca
MCM-T2-2HT (680-270885-2)	5/14/26	08:32 Eastern	G	Water			X	X	1	Boron, Ca
MCM-T2-2HTS (680-270885-3)	5/14/26	08:17 Eastern	G	Water			X	X	1	Boron, Ca
MCM-T2-3HT (680-270885-4)	5/14/26	09:06 Eastern	G	Water			X	X	1	Boron, Ca
MCM-T2-3HTS (680-270885-5)	5/14/26	08:50 Eastern	G	Water			X	X	1	Boron, Ca
MCM-T2-4HT (680-270885-6)	5/14/26	09:48 Eastern	G	Water			X	X	1	Boron, Ca
MCM-T2-4HTS (680-270885-7)	5/14/26	09:32 Eastern	G	Water			X	X	1	Boron, Ca
MCM-T2-4LT (680-270885-8)	5/14/26	13:37 Eastern	G	Water			X	X	1	Boron, Ca
MCM-BG-1LT (680-270885-9)	5/14/26	13:12 Eastern	G	Water			X	X	1	Boron, Ca

Note: Since laboratory accreditations are subject to change, Eurofins Drinking Water and Wastewater 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 Drinking Water and Wastewater Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Drinking Water and Wastewater Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Drinking Water and Wastewater 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:

Relinquished by:	Date/Time: 5/15/26 1600	Company	Received by:	Date/Time: 5/16/26 9:00	Company
Relinquished by:	Date/Time:	Company	Received by:	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: 0.9°, 0.1° #2665

Eurofins Savannah
7001 Chatham Center Drive Suite 600
Savannah, GA 31405
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: 680-809872.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: Georgia (St)	Page: Page 2 of 2
Company: Eurofins Environment Testing Southeast L		Accreditations Required (See note): NELAP - Florida; State - Georgia		Job #: 680-270885-1
Address: 3080 Presidential Dr, ,	Due Date Requested: 5/29/2026			Preservation Codes: -
City: Atlanta	TAT Requested (days): N/A			
State, Zip: GA, 30340				
Phone: 770-457-8177(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Plant McManus Surface Water May 2026 Resample	Project #: 68027841			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

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)	6010D/3010AApp III Metals	6020B/3005ASelect 4 Metals (As,Mg,K,Na)	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MCM-BG-2HT (680-270885-10)	5/14/26	10:18 Eastern	G	Water			X	X	1	Boron, Ca
MCM-CSURF-FD-01 (680-270885-11)	5/14/26	Eastern	G	Water			X	X	1	Boron, Ca
MCM-CSURF-FB-01 (680-270885-12)	5/14/26	16:12 Eastern	G	Water			X	X	1	Boron, Ca
MCM-CSURF-EB-01 (680-270885-13)	5/14/26	16:20 Eastern	G	Water			X	X	1	Boron, Ca

Note: Since laboratory accreditations are subject to change, Eurofins Drinking Water and Wastewater 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 Drinking Water and Wastewater Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Drinking Water and Wastewater Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Drinking Water and Wastewater 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:			
Relinquished by:	Date/Time: 5/15/26 1600	Company	Received by:	Date/Time: 5/16/26 9:00	Company		
Relinquished by:	Date/Time:	Company	Received by:	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: 0.9°, 0.1° #2665				

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-270885-1

Login Number: 270885

List Source: Eurofins Savannah

List Number: 1

Creator: Faught, Timothy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 680-270885-1

Login Number: 270885
List Number: 2
Creator: Sims, Christion

List Source: Eurofins Atlanta
List Creation: 05/16/26 01:24 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
The cooler does 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 present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Sample custody seals, if present, are intact.	True	
Sample collection date/times are provided.	True	
The samples do not appear to have been compromised or tampered with.	True	
Containers are not broken or leaking.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Appropriate sample containers were rec'd and sufficient volume for all analyses.	True	
Samples are received within Holding Time (excluding tests with immediate HTs).	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Is there sufficient air space in bottle for bacteriological analysis.	True	

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 09/17/2025

Calibrated By: Jay Siewert

Field Conditions: 86°/60°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1182553
Turbidity Meter	LaMotte 2020	94534417

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24014218	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24014218	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24014266	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24011537	01/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24014218	01/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	22490162	01/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	11:06	**Time Finish**	11:17		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	99.69	23.81	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,520.00	24.35	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	24.72	± 0.1	GWMP
pH (SU)	7.00	7.04	24.72	± 0.1	GWMP
pH (SU)	10.00	10.06	24.72	± 0.1	GWMP
ORP (mV)	228.0	221.10	24.67	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	0.91		
	10.00	10.60		

Calibration Check					
Time Start	16:56	**Time Finish**	17:05		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,534.00	30.48	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	30.50	± 0.1	GWMP
pH (SU)	7.00	7.12	30.54	± 0.1	GWMP
pH (SU)	10.00	10.11	31.70	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	0.95		
	10.00	10.55		

Notes:

Start of Day:

End of Day:

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 09/18/2025

Calibrated By: Jay Siewert

Field Conditions: 88°/63°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1182553
Turbidity Meter	LaMotte 2020	70423818

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24014218	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24014218	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24014266	01/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24011537	01/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24014218	01/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	22490162	01/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	07:16	**Time Finish**	07:27		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	99.09	21.83	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,489.00	21.93	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	21.98	± 0.1	GWMP
pH (SU)	7.00	7.04	22.18	± 0.1	GWMP
pH (SU)	10.00	10.10	22.36	± 0.1	GWMP
ORP (mV)	228.0	227.00	22.49	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.08		
	10.00	10.15		

Calibration Check					
Time Start	12:23	**Time Finish**	12:31		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,435.00	27.73	± 10% of standard	EPA 2023
pH (SU)	4.00	4.13	27.77	± 0.1	GWMP
pH (SU)	7.00	7.13	28.20	± 0.1	GWMP
pH (SU)	10.00	10.14	30.29	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0.00	0	± 10% of standard	EPA 2023
	1.00	1.08		
	10.00	10.21		

Notes:

Start of Day:

End of Day:

Low-Flow Test Report:

Test Date / Time: 9/17/2025 12:27:00 PM
Project: Plant McManus September 2025 Surface Sampling
Operator Name: William Laaker

Location Name: BG-1LT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10 %	+/- 0.3	+/- 10	
9/17/2025 12:27 PM	00:00	7.106 pH	27.96 °C	28,733 µS/cm	3.554 mg/L	7.410 NTU	133.0 mV		18.01 PSU	150.0 ml/min
9/17/2025 12:28 PM	01:00	7.116 pH	27.69 °C	28,823 µS/cm	3.519 mg/L		111.0 mV		18.07 PSU	150.0 ml/min
9/17/2025 12:29 PM	02:00	7.123 pH	27.51 °C	28,927 µS/cm	3.524 mg/L	7.410 NTU	100.9 mV		18.14 PSU	150.0 ml/min

Samples

Sample ID:	Description:
BG-1LT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/17/2025 12:52:28 PM
Project: Plant McManus September 2025 Surface Sampling
Operator Name: William Laaker

Location Name: T2-4LT	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 1182553

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10 %	+/- 0.3	+/- 10
9/17/2025 12:52 PM	00:00	7.232 pH	33.26 °C	27,003 µS/cm	4.387 mg/L	5.730 NTU	95.5 mV		16.83 PSU
9/17/2025 12:53 PM	01:00	7.209 pH	32.62 °C	27,580 µS/cm	4.396 mg/L		87.5 mV		17.23 PSU
9/17/2025 12:54 PM	02:00	7.200 pH	32.47 °C	27,795 µS/cm	4.401 mg/L	5.730 NTU	84.2 mV		17.38 PSU

Samples

Sample ID:	Description:
T2-4LT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2025 8:18:36 AM
Project: Plant McManus September 2025 Surface Sampling
Operator Name: William Laaker

Location Name: BG-2HT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10 %	+/- 0.3	+/- 10	
9/18/2025 8:18 AM	00:00	7.276 pH	24.90 °C	32,627 µS/cm	5.339 mg/L	6.970 NTU	155.8 mV		20.69 PSU	150.0 ml/min
9/18/2025 8:19 AM	01:00	7.326 pH	25.55 °C	32,303 µS/cm	5.115 mg/L		126.6 mV		20.47 PSU	150.0 ml/min
9/18/2025 8:20 AM	02:00	7.345 pH	25.85 °C	32,117 µS/cm	5.035 mg/L	6.970 NTU	145.4 mV		20.35 PSU	150.0 ml/min

Samples

Sample ID:	Description:
BG-2HT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2025 8:41:43 AM
Project: Plant McManus September 2025 Surface Sampling
Operator Name: William Laaker

Location Name: T2-1HT	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 1182553

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10 %	+/- 0.3	+/- 10
9/18/2025 8:41 AM	00:00	7.320 pH	27.13 °C	28,883 µS/cm	4.280 mg/L	5.320 NTU	109.1 mV		18.11 PSU
9/18/2025 8:42 AM	01:00	7.268 pH	26.85 °C	29,016 µS/cm	3.917 mg/L		96.5 mV		18.20 PSU
9/18/2025 8:43 AM	02:00	7.244 pH	26.72 °C	29,079 µS/cm	3.805 mg/L	5.320 NTU	93.1 mV		18.24 PSU

Samples

Sample ID:	Description:
T2-1HT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2025 8:48:13 AM
Project: Plant McManus September 2025 Surface Sampling
Operator Name: William Laaker

Location Name: T2-2HTS	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 1182553

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10 %	+/- 0.3	+/- 10
9/18/2025 8:48 AM	00:00	7.217 pH	26.26 °C	29,163 µS/cm	4.002 mg/L	5.900 NTU	111.3 mV		18.30 PSU
9/18/2025 8:49 AM	01:00	7.213 pH	26.25 °C	29,182 µS/cm	3.855 mg/L		95.3 mV		18.31 PSU
9/18/2025 8:50 AM	02:00	7.210 pH	26.22 °C	29,175 µS/cm	3.716 mg/L	5.900 NTU	104.6 mV		18.31 PSU

Samples

Sample ID:	Description:
T2-2HTS	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2025 8:57:30 AM
Project: Plant McManus September 2025 Surface Sampling
Operator Name: William Laaker

Location Name: T2-2HT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10 %	+/- 0.3	+/- 10	
9/18/2025 8:57 AM	00:00	7.188 pH	25.92 °C	29,217 µS/cm	3.236 mg/L	5.370 NTU	95.6 mV		18.33 PSU	150.0 ml/min
9/18/2025 8:58 AM	01:00	7.187 pH	25.94 °C	29,213 µS/cm	3.232 mg/L		86.0 mV		18.33 PSU	150.0 ml/min
9/18/2025 8:59 AM	02:00	7.183 pH	25.94 °C	29,197 µS/cm	3.209 mg/L	5.370 NTU	90.8 mV		18.32 PSU	150.0 ml/min

Samples

Sample ID:	Description:
T2-2HT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2025 9:14:26 AM
Project: Plant McManus September 2025 Surface Sampling
Operator Name: William Laaker

Location Name: T2-3HTS	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 1182553

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10 %	+/- 0.3	+/- 10
9/18/2025 9:14 AM	00:00	7.259 pH	27.00 °C	28,958 µS/cm	4.144 mg/L	5.440 NTU	98.8 mV		18.16 PSU
9/18/2025 9:15 AM	01:00	7.243 pH	27.11 °C	28,997 µS/cm	3.973 mg/L		89.4 mV		18.19 PSU
9/18/2025 9:16 AM	02:00	7.229 pH	27.34 °C	28,941 µS/cm	3.864 mg/L	5.440 NTU	94.5 mV		18.15 PSU

Samples

Sample ID:	Description:
T2-3HTS	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2025 9:21:16 AM
Project: Plant McManus September 2025 Surface Sampling
Operator Name: William Laaker

Location Name: T2-3HT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10 %	+/- 0.3	+/- 10	
9/18/2025 9:21 AM	00:00	7.207 pH	27.13 °C	28,738 µS/cm	3.298 mg/L	5.460 NTU	92.8 mV		18.01 PSU	150.0 ml/min
9/18/2025 9:22 AM	01:00	7.192 pH	26.90 °C	28,901 µS/cm	3.220 mg/L		92.9 mV		18.12 PSU	150.0 ml/min
9/18/2025 9:23 AM	02:00	7.185 pH	26.80 °C	28,891 µS/cm	3.174 mg/L	5.460 NTU	89.9 mV		18.11 PSU	150.0 ml/min

Samples

Sample ID:	Description:
T2-3HT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2025 9:35:42 AM
Project: Plant McManus September 2025 Surface Sampling
Operator Name: William Laaker

Location Name: T2-4HTS	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 1182553

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10 %	+/- 0.3	+/- 10
9/18/2025 9:35 AM	00:00	7.343 pH	29.47 °C	28,604 µS/cm	4.468 mg/L	4.620 NTU	96.0 mV		17.93 PSU
9/18/2025 9:36 AM	01:00	7.285 pH	28.99 °C	28,959 µS/cm	4.274 mg/L		98.6 mV		18.17 PSU
9/18/2025 9:37 AM	02:00	7.271 pH	28.80 °C	29,171 µS/cm	4.243 mg/L	4.620 NTU	85.2 mV		18.32 PSU

Samples

Sample ID:	Description:
T2-4HTS	Metals, Inorganics, Alkalinity, TDS
FD-01	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/18/2025 9:46:22 AM
Project: Plant McManus September 2025 Surface Sampling
Operator Name: William Laaker

Location Name: T2-4HT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10 %	+/- 0.3	+/- 10	
9/18/2025 9:46 AM	00:00	7.253 pH	27.66 °C	28,861 µS/cm	4.039 mg/L	7.230 NTU	87.3 mV		18.10 PSU	150.0 ml/min
9/18/2025 9:47 AM	01:00	7.238 pH	27.23 °C	29,048 µS/cm	3.834 mg/L		80.6 mV		18.23 PSU	150.0 ml/min
9/18/2025 9:48 AM	02:00	7.233 pH	27.08 °C	29,110 µS/cm	3.794 mg/L	7.230 NTU	79.8 mV		18.27 PSU	150.0 ml/min

Samples

Sample ID:	Description:
T2-4HT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Field Instrumentation Calibration Form

Site Name: Plant McManus

Date: 05/14/2026

Calibrated By: William Laaker

Field Conditions: 86/59 sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1,182,553
Turbidity Meter	Hach	25100D000278

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	4.00	24021650	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	7.00	24021711	09/2026	Atlanta Instrument Rental, Inc.
pH (SU)	10.00	24022784	09/2026	Atlanta Instrument Rental, Inc.
D.O. (%)	N/A	24021650	09/2026	Atlanta Instrument Rental, Inc.
ORP (mV)	228.0	24020598	09/2026	Atlanta Instrument Rental, Inc.

Calibration					
Time Start	06:55	**Time Finish**	07:06		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
D.O. (%)	N/A	101.90	20.03	± 10%	NA
Specific Conductance (µS/cm)	4,490	4,486.00	20.50	± 10% of standard	EPA 2023
pH (SU)	4.00	3.91	20.59	± 0.1	GWMP
pH (SU)	7.00	6.99	21.14	± 0.1	GWMP
pH (SU)	10.00	10.07	21.53	± 0.1	GWMP
ORP (mV)	228.0	212.90	21.64	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10.00	10.30	± 10% of standard	EPA 2023
	20.00	20.22		
	100.00	101.00		
	800.00	799.00		

Calibration Check					
Time Start	16:02	**Time Finish**	16:08		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,499.00	28.69	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10	28.67	± 0.1	GWMP
pH (SU)	7.00	7.16	28.71	± 0.1	GWMP
pH (SU)	10.00	10.15	29.30	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10.00	10.17	± 10% of standard	EPA 2023
	20.00	20.50		
	100.00	101.00		
	800.00	800.00		

Notes:

Start of Day:

End of Day:

Low-Flow Test Report:

Test Date / Time: 5/14/2026 8:06:07 AM
Project: May 2026 McManus Surface Water
Operator Name: William Laaker

Location Name: T2-1HT	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 1182553

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10
5/14/2026 8:06 AM	00:00	6.968 pH	23.93 °C	42,314 µS/cm	4.671 mg/L	7.500 NTU	208.1 mV		27.58 PSU
5/14/2026 8:07 AM	01:00	7.026 pH	23.54 °C	42,643 µS/cm	4.514 mg/L		202.2 mV		27.81 PSU
5/14/2026 8:08 AM	02:00	7.060 pH	23.14 °C	42,991 µS/cm	4.445 mg/L	7.500 NTU	230.8 mV		28.05 PSU

Samples

Sample ID:	Description:
T2-1HT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/14/2026 8:16:50 AM
Project: May 2026 McManus Surface Water
Operator Name: William Laaker

Location Name: T2-2HTS	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 1182553

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10
5/14/2026 8:16 AM	00:00	7.169 pH	24.27 °C	42,036 µS/cm	4.584 mg/L	8.040 NTU	175.2 mV		27.39 PSU
5/14/2026 8:17 AM	01:00	7.180 pH	23.37 °C	42,846 µS/cm	4.548 mg/L		184.0 mV		27.95 PSU
5/14/2026 8:18 AM	02:00	7.186 pH	23.36 °C	42,803 µS/cm	4.476 mg/L	8.040 NTU	176.5 mV		27.92 PSU

Samples

Sample ID:	Description:
T2-2HTS	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/14/2026 8:29:35 AM
Project: May 2026 McManus Surface Water
Operator Name: William Laaker

Location Name: T2-2HT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10	
5/14/2026 8:29 AM	00:00	7.260 pH	24.43 °C	42,540 µS/cm	4.596 mg/L	8.720 NTU	162.0 mV		27.75 PSU	150.0 ml/min
5/14/2026 8:30 AM	01:00	7.252 pH	23.54 °C	43,333 µS/cm	4.450 mg/L		161.0 mV		28.31 PSU	150.0 ml/min
5/14/2026 8:31 AM	02:00	7.250 pH	23.54 °C	43,299 µS/cm	4.399 mg/L	8.720 NTU	153.9 mV		28.29 PSU	150.0 ml/min

Samples

Sample ID:	Description:
T2-2HT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/14/2026 8:50:33 AM
Project: May 2026 McManus Surface Water
Operator Name: William Laaker

Location Name: T2-3HTS	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 1182553

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10
5/14/2026 8:50 AM	00:00	7.266 pH	26.72 °C	41,417 µS/cm	4.790 mg/L	6.020 NTU	148.8 mV		26.98 PSU
5/14/2026 8:51 AM	01:00	7.244 pH	25.46 °C	42,620 µS/cm	4.814 mg/L		149.8 mV		27.83 PSU
5/14/2026 8:52 AM	02:00	7.233 pH	25.30 °C	42,851 µS/cm	4.723 mg/L	6.020 NTU	146.5 mV		28.00 PSU

Samples

Sample ID:	Description:
T2-3HTS	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/14/2026 9:02:38 AM
Project: May 2026 McManus Surface Water
Operator Name: William Laaker

Location Name: T2-3HT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10	
5/14/2026 9:02 AM	00:00	7.265 pH	24.83 °C	42,565 µS/cm	4.253 mg/L	9.150 NTU	142.8 mV		27.78 PSU	150.0 ml/min
5/14/2026 9:03 AM	01:00	7.266 pH	24.20 °C	43,087 µS/cm	4.313 mg/L		134.6 mV		28.15 PSU	150.0 ml/min
5/14/2026 9:04 AM	02:00	7.261 pH	23.77 °C	43,368 µS/cm	4.323 mg/L	9.150 NTU	133.7 mV		28.34 PSU	150.0 ml/min

Samples

Sample ID:	Description:
T2-3HT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/14/2026 9:28:50 AM
Project: May 2026 McManus Surface Water
Operator Name: William Laaker

Location Name: T2-4HTS	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 1182553

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10
5/14/2026 9:28 AM	00:00	7.311 pH	27.70 °C	41,222 µS/cm	4.820 mg/L	7.040 NTU	144.5 mV		26.85 PSU
5/14/2026 9:29 AM	01:00	7.293 pH	26.85 °C	42,080 µS/cm	4.845 mg/L		137.0 mV		27.46 PSU
5/14/2026 9:30 AM	02:00	7.281 pH	26.72 °C	42,388 µS/cm	4.779 mg/L	7.040 NTU	134.5 mV		27.69 PSU

Samples

Sample ID:	Description:
T2-4HTS	Metals, Inorganics, Alkalinity, TDS
FD-01	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/14/2026 9:44:50 AM
Project: May 2026 McManus Surface Water
Operator Name: William Laaker

Location Name: T2-4HT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10	
5/14/2026 9:44 AM	00:00	7.316 pH	26.65 °C	41,126 µS/cm	4.634 mg/L	7.180 NTU	140.8 mV		26.77 PSU	150.0 ml/min
5/14/2026 9:45 AM	01:00	7.290 pH	25.25 °C	42,163 µS/cm	4.505 mg/L		134.1 mV		27.50 PSU	150.0 ml/min
5/14/2026 9:46 AM	02:00	7.277 pH	24.60 °C	42,642 µS/cm	4.486 mg/L	7.180 NTU	133.2 mV		27.83 PSU	150.0 ml/min

Samples

Sample ID:	Description:
T2-4HT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/14/2026 10:15:32 AM
Project: May 2026 McManus Surface Water
Operator Name: William Laaker

Location Name: BG-2HT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10	
5/14/2026 10:15 AM	00:00	7.371 pH	27.16 °C	41,481 µS/cm	4.750 mg/L	15.70 NTU	141.9 mV		27.03 PSU	150.0 ml/min
5/14/2026 10:16 AM	01:00	7.369 pH	25.77 °C	42,598 µS/cm	4.911 mg/L		135.4 mV		27.82 PSU	150.0 ml/min
5/14/2026 10:17 AM	02:00	7.363 pH	25.13 °C	43,128 µS/cm	4.942 mg/L	15.70 NTU	135.1 mV		28.20 PSU	150.0 ml/min

Samples

Sample ID:	Description:
BG-2HT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/14/2026 1:08:37 PM
Project: May 2026 McManus Surface Water
Operator Name: William Laaker

Location Name: BG-1LT	**Pump Type: GeoTech Peristaltic** **Tubing Type: LDPE** **Estimated Total Volume Pumped: 300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1182553**

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity	Flow
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10	
5/14/2026 1:08 PM	00:00	7.415 pH	33.38 °C	37,742 µS/cm	4.480 mg/L	16.40 NTU	116.0 mV		24.37 PSU	150.0 ml/min
5/14/2026 1:09 PM	01:00	7.372 pH	29.96 °C	39,786 µS/cm	4.787 mg/L		121.5 mV		25.83 PSU	150.0 ml/min
5/14/2026 1:10 PM	02:00	7.366 pH	27.94 °C	41,000 µS/cm	5.019 mg/L	16.40 NTU	112.9 mV		26.69 PSU	150.0 ml/min

Samples

Sample ID:	Description:
BG-1LT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/14/2026 1:34:33 PM
Project: May 2026 McManus Surface Water
Operator Name: William Laaker

Location Name: T2-4LT	Flow Cell Volume: 90 ml	Instrument Used: Aqua TROLL 400 Serial Number: 1182553

Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Salinity
		+/- 0.1	+/- 5	+/- 5 %	+/- 10 %	+/- 5	+/- 10	+/- 0.3	+/- 10
5/14/2026 1:34 PM	00:00	7.433 pH	32.68 °C	34,378 µS/cm	4.709 mg/L	19.40 NTU	111.0 mV		21.97 PSU
5/14/2026 1:35 PM	01:00	7.293 pH	30.69 °C	36,109 µS/cm	4.720 mg/L		111.3 mV		23.20 PSU
5/14/2026 1:36 PM	02:00	7.249 pH	30.26 °C	36,744 µS/cm	4.680 mg/L	19.40 NTU	112.1 mV		23.65 PSU

Samples

Sample ID:	Description:
T2-4LT	Metals, Inorganics, Alkalinity, TDS

Created using VuSitu from In-Situ, Inc.

APPENDIX E

STATISTICAL ANALYSES

ENSAFE
creative thinking. custom solutions.

GROUNDWATER STATS CONSULTING

November 12, 2025

Resolute Environmental & Water Resources Consulting
Attn: Mr. Trent Godwin
1003 Weatherstone Parkway, Ste. 320
Woodstock, GA 30188

Re: Plant McManus Ash Pond (AP)
Statistical Analysis – September 2025 Sample Event

Dear Mr. Godwin,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the September 2025 sample event for Georgia Power Company's Plant McManus Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division Rules (EPD) for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

The groundwater monitoring well network consists of the following:

- **Upgradient Wells:** MCM-01, MCM-02, MCM-11, MCM-15, MCM-16, MCM-18, MCM-19, and MCM-20
- **Downgradient Wells:** MCM-04, MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, and MCM-17
- **Assessment Well:** DPZ-02

Sampling began in 2016 for the majority of wells. Upgradient wells MCM-18, MCM-19, and MCM-20, however, were installed late in 2019. Assessment well DPZ-2 is evaluated with confidence intervals for Appendix IV constituents which require a minimum of four samples. A minimum of 8 samples has been collected at each upgradient and downgradient well and data from these wells are included in this analysis.

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.

The statistical analysis provided in this report was performed according to the background screening conducted by MacStat Consulting in April 2019. Interwell prediction limits, combined with a 1-of-2 resample plan, for Appendix III parameters were recommended as the primary statistical method.

The CCR program monitors the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **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 list of Appendix IV downgradient and assessment well/constituent pairs containing 100% non-detects follow this letter.

For all constituents, a replacement of the most recent reporting limit is used for non-detect data. However, the reporting limits for some constituents during recent events were at or above the MCL or CCR-Rule Specified Levels. In order maintain conservative limits, the following most recent reporting limits were substituted:

- Cobalt: 0.001 mg/L
- Fluoride: 0.1 mg/L
- Lithium: 0.01 mg/L

Some constituents exist in higher concentrations in upgradient wells compared to those reported in one or more downgradient wells which is reflective of spatial variation in groundwater quality. In other cases, concentrations exist higher in downgradient wells relative to observations reported upgradient of the facility, as seen in the majority of the Appendix III parameters. This may be reflective of spatial variation or a result of practices at the facility. A separate study and hydrogeological investigation would be required to fully understand the geochemical conditions and expected groundwater quality for the region. That study and assessment is beyond the scope of services provided by Groundwater Stats Consulting.

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.

Based on the 2019 screening, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods were recommended. Power curves were provided with the 2019 screening to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia EPD Rules for Solid Waste Management Chapter 391-3-4-.10. 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.

Summary of Statistical Methods:

Based on the evaluation for state and federal regulatory requirements, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals on downgradient well data compared against Groundwater Protection Standards (GWPS) for each detected Appendix IV constituent

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) 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 following approaches are used for handling non-detects (USEPA, 2009):

- 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 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.

Summary of Background Update Conducted in Spring 2025

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at upgradient wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits. When the most recent value is identified as an outlier, values are often not flagged in the database at this time as the measurements may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected.

Previously flagged values were confirmed using the Tukey's box plot method to evaluate pooled upgradient well data and visual screening with time series plots to assess both

upgradient and downgradient wells. Any values identified by Tukey's, but not flagged in the database, appeared representative of remaining concentrations among pooled upgradient data. When any values are flagged in the database as outliers, the measurements are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends can be identified by visual inspection, a quantification of the trend and its statistical significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each upgradient well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits. The following statistically significant trends were identified at upgradient wells:

Appendix III

Increasing:

- None

Decreasing:

- Boron: MCM-16 and MCM-18
- Calcium: MCM-18 and MCM-20
- Chloride: MCM-02, MCM-16, MCM-18, and MCM-20
- pH: MCM-15 and MCM-20
- Sulfate: MCM-02 and MCM-18
- TDS: MCM-01, MCM-02, MCM-16, MCM-18, and MCM-20

Appendix IV

Increasing:

- Beryllium: MCM-11 and MCM-16
- Chromium: MCM-15
- Combined Radium 226 + 228: MCM-16
- Lead: MCM-20
- Selenium: MCM-19

Decreasing:

- Arsenic: MCM-18
- Barium: MCM-02, MCM-19, and MCM-20
- Beryllium: MCM-18
- Combined Radium 226 +228: MCM-18 and MCM-20
- Selenium: MCM-18 and MCM-20

Although the results of the trend analyses showed statistically significant decreasing and increasing trends at individual upgradient wells for the Appendix III and IV parameters, the magnitudes of several of the trends noted were relatively low compared to average pooled upgradient concentrations. Additionally, many of the well/constituent pairs with statistically significant trends did not require truncation because truncating earlier measurements would have no bearing on resulting statistical limits that are constructed using pooled upgradient well data. If the observed decreasing or increasing trends persist over a longer time frame and influence resulting statistical limits, some records may require truncation.

Exceptions include the trends for combined radium 226 + 228 at upgradient well MCM-20 and selenium at upgradient wells MCM-18, MCM-19, and MCM-20, as these well/constituent pairs had portions of their baseline sampling periods truncated during a previous update. Trend tests using both the full and truncated records were included with the update, and a list of well/constituent pairs that use a truncated portion of their record follows this letter.

Statistical Analysis of Appendix III Parameters – September 2025

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed for potential outliers during this analysis. No additional outliers were flagged at this time. 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).

Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through September 2025 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The September 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: MCM-12 and MCM-17
- Calcium: MCM-05 and MCM-06
- pH (upper limit): MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, and MCM-17

Trend Tests

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). Upgradient well data are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Trends identified in upgradient wells are an indication of variability in groundwater quality unrelated to practices at the site. A summary of trend test results follows this letter including a list of statistically significant trends. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- pH: MCM-02 (upgradient)

Decreasing:

- Boron: MCM-16 and MCM-18 (both upgradient)
- Calcium: MCM-18 and MCM-20 (both upgradient)
- pH: MCM-20 (upgradient), MCM-14, and MCM-17

Statistical Analysis of Appendix IV Parameters – September 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. Any downgradient and assessment well/constituent pairs containing 100% non-detects do not require analysis.

Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No additional individual observations were flagged as outliers during this analysis. As a result of the previous background screening, the following non-detect values were flagged at that time due to elevated reporting limits: 0.025 mg/L for lead in upgradient well MCM-19; and 0.1 mg/L, 0.15 mg/L and 0.3 mg/L for lithium in upgradient well MCM-18. Additionally, elevated concentrations for fluoride in downgradient well MCM-06 and upgradient well MCM-20, and for cadmium in upgradient well MCM-19 were flagged as outliers. This step results in construction of statistical limits that are conservative from a regulatory perspective.

During previous analyses, elevated historic concentrations collected during the baseline sampling period for combined radium 226 + 228 in upgradient well MCM-20 and for selenium at upgradient wells MCM-18, MCM-19, and MCM-20 were truncated from the record in order to maintain more conservative (i.e., lower) limits and construct statistical limits that are more representative of current groundwater quality conditions. A summary of all flagged outliers (Figure C) and a list of any truncated records follow this report.

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through September 2025 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. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

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 and assessment well. These intervals were constructed as either parametric or nonparametric confidence intervals 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 appropriate 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 achievable confidence level associated with nonparametric confidence intervals is dependent upon the number of samples available.

Note the concentrations for arsenic and lithium in downgradient well MCM-06 have statistically significantly decreased since November 2019 and recent concentrations appear to have stabilized. Therefore, confidence intervals for arsenic and lithium at

MCM-06 were constructed using only more recent and stable data (USEPA Unified Guidance, 2009, Chapter 7). A Mann-Whitney test comparing the median of historic data to the median of more recent data is included to illustrate the statistically significant decrease in medians at the 99% confidence level. Additionally, trend tests using 95% confidence using the truncated records follow this report (Figure H) and a list of well/constituent pairs that use a truncated portion of their record follows this letter.

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. Summaries of the confidence intervals follow this letter (Figure I), and exceedances were identified for the following well/constituent pairs:

- Arsenic: MCM-06
- Lithium: DPZ-02

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.

Note that closure measures have been implemented; therefore, the trend tests were used to evaluate all available data beyond November 21, 2019 to the present. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:
- Arsenic: MCM-11 (upgradient)

Decreasing:
- Arsenic: MCM-18 (upgradient) and MCM-06
- Lithium: DPZ-02

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for the Plant McManus Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Andrew T. Collins
Project Manager

Kristina L. Rayner
Senior Statistician

Table of Contents

Summary Tables	13
Figure A. Time Series	29
Figure B. Box Plots	125
Figure C. Outlier Summary	137
Figure D. Appendix III Interwell Prediction Limits	139
Figure E. Appendix III Trend Tests - Prediction Limit Exceedances	172
Figure F. Upper Tolerance Limits	184
Figure G. Groundwater Protection Standards	194
Figure H. Arsenic & Lithium MCM-06 Mann-Whitney Test	196
Figure H. Arsenic & Lithium MCM-06 Trend Tests	199
Figure I. Confidence Intervals	201
Figure J. Appendix IV Trend Tests - Confidence Interval Exceedances	236

Summary Tables

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Date Ranges

Date: 11/10/2025 2:38 PM

Plant McManus Client: Southern Company Data: McManus AP1

Arsenic (mg/L)
- MCM-06 overall:3/2/2023-9/9/2025

Combined Radium 226 + 228 (pCi/L)
- MCM-20 overall:10/13/2020-9/9/2025

Lithium (mg/L)
- MCM-06 overall:9/20/2022-9/9/2025

Selenium (mg/L)
- MCM-18 overall:3/26/2020-9/9/2025
- MCM-19 overall:3/26/2020-9/9/2025
- MCM-20 overall:3/26/2020-9/9/2025

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100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 11/10/2025 3:37 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

Antimony (mg/L)
MCM-04, MCM-07, MCM-12, MCM-17, DPZ-02

Beryllium (mg/L)
MCM-06, DPZ-02

Cadmium (mg/L)
MCM-05, MCM-06, MCM-12, MCM-14, MCM-17, DPZ-02

Chromium (mg/L)
DPZ-02

Cobalt (mg/L)
DPZ-02

Lead (mg/L)
MCM-04, DPZ-02

Mercury (mg/L)
MCM-12, DPZ-02

Molybdenum (mg/L)
MCM-14

Thallium (mg/L)
MCM-04, MCM-05, MCM-07, MCM-12, MCM-14, MCM-17, DPZ-02

Appendix III Interwell Prediction Limits - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**MCM-12**	**1.3**	**n/a**	**9/9/2025**	**1.32**	**Yes**	**170**	**n/a**	**n/a**	**5.882**	**n/a**	**n/a**	**0.00006855**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**MCM-17**	**1.3**	**n/a**	**9/11/2025**	**2.21**	**Yes**	**170**	**n/a**	**n/a**	**5.882**	**n/a**	**n/a**	**0.00006855**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**MCM-05**	**202**	**n/a**	**9/9/2025**	**245**	**Yes**	**171**	**n/a**	**n/a**	**0.5848**	**n/a**	**n/a**	**0.00006776**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**MCM-06**	**202**	**n/a**	**9/9/2025**	**240**	**Yes**	**171**	**n/a**	**n/a**	**0.5848**	**n/a**	**n/a**	**0.00006776**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-05**	**5.81**	**3.58**	**9/9/2025**	**6.85**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-06**	**5.81**	**3.58**	**9/9/2025**	**6.72**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-07**	**5.81**	**3.58**	**9/11/2025**	**6.44**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-12**	**5.81**	**3.58**	**9/9/2025**	**6.38**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-14**	**5.81**	**3.58**	**9/9/2025**	**6.51**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-17**	**5.81**	**3.58**	**9/11/2025**	**6.42**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	MCM-04	1.3	n/a	9/10/2025	0.0612	No	170	n/a	n/a	5.882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-05	1.3	n/a	9/9/2025	0.669	No	170	n/a	n/a	5.882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-06	1.3	n/a	9/9/2025	0.799	No	170	n/a	n/a	5.882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-07	1.3	n/a	9/11/2025	0.906	No	170	n/a	n/a	5.882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Boron (mg/L)	**MCM-12**	**1.3**	**n/a**	**9/9/2025**	**1.32**	**Yes**	**170**	**n/a**	**n/a**	**5.882**	**n/a**	**n/a**	**0.00006855**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	MCM-14	1.3	n/a	9/9/2025	0.776	No	170	n/a	n/a	5.882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Boron (mg/L)	**MCM-17**	**1.3**	**n/a**	**9/11/2025**	**2.21**	**Yes**	**170**	**n/a**	**n/a**	**5.882**	**n/a**	**n/a**	**0.00006855**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	MCM-04	202	n/a	9/10/2025	4.36	No	171	n/a	n/a	0.5848	n/a	n/a	0.00006776	NP Inter (normality) 1 of 2
Calcium (mg/L)	**MCM-05**	**202**	**n/a**	**9/9/2025**	**245**	**Yes**	**171**	**n/a**	**n/a**	**0.5848**	**n/a**	**n/a**	**0.00006776**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**MCM-06**	**202**	**n/a**	**9/9/2025**	**240**	**Yes**	**171**	**n/a**	**n/a**	**0.5848**	**n/a**	**n/a**	**0.00006776**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	MCM-07	202	n/a	9/11/2025	132	No	171	n/a	n/a	0.5848	n/a	n/a	0.00006776	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-12	202	n/a	9/9/2025	4.43	No	171	n/a	n/a	0.5848	n/a	n/a	0.00006776	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-14	202	n/a	9/9/2025	178	No	171	n/a	n/a	0.5848	n/a	n/a	0.00006776	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-17	202	n/a	9/11/2025	60.7	No	171	n/a	n/a	0.5848	n/a	n/a	0.00006776	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-04	8600	n/a	9/10/2025	21.5	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-05	8600	n/a	9/9/2025	4910	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-06	8600	n/a	9/9/2025	5860	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-07	8600	n/a	9/11/2025	3210	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-12	8600	n/a	9/9/2025	281	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-14	8600	n/a	9/9/2025	4230	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-17	8600	n/a	9/11/2025	2550	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-04	3.98	n/a	9/10/2025	0.1ND	No	174	n/a	n/a	46.55	n/a	n/a	0.00006537	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-05	3.98	n/a	9/9/2025	0.719	No	174	n/a	n/a	46.55	n/a	n/a	0.00006537	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-06	3.98	n/a	9/9/2025	0.272J	No	174	n/a	n/a	46.55	n/a	n/a	0.00006537	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-07	3.98	n/a	9/11/2025	0.589	No	174	n/a	n/a	46.55	n/a	n/a	0.00006537	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-12	3.98	n/a	9/9/2025	1.51	No	174	n/a	n/a	46.55	n/a	n/a	0.00006537	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-14	3.98	n/a	9/9/2025	0.1ND	No	174	n/a	n/a	46.55	n/a	n/a	0.00006537	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-17	3.98	n/a	9/11/2025	0.995	No	174	n/a	n/a	46.55	n/a	n/a	0.00006537	NP Inter (normality) 1 of 2
pH, Field (SU)	MCM-04	5.81	3.58	9/10/2025	5.42	No	178	n/a	n/a	0	n/a	n/a	0.0001244	NP Inter (normality) 1 of 2
pH, Field (SU)	**MCM-05**	**5.81**	**3.58**	**9/9/2025**	**6.85**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-06**	**5.81**	**3.58**	**9/9/2025**	**6.72**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-07**	**5.81**	**3.58**	**9/11/2025**	**6.44**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-12**	**5.81**	**3.58**	**9/9/2025**	**6.38**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-14**	**5.81**	**3.58**	**9/9/2025**	**6.51**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-17**	**5.81**	**3.58**	**9/11/2025**	**6.42**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	MCM-04	1300	n/a	9/10/2025	25.8	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-05	1300	n/a	9/9/2025	560	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-06	1300	n/a	9/9/2025	775	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-07	1300	n/a	9/11/2025	457	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-12	1300	n/a	9/9/2025	0.343J	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-14	1300	n/a	9/9/2025	563	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-17	1300	n/a	9/11/2025	286	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-04	15500	n/a	9/10/2025	106	No	170	n/a	n/a	0.5882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-05	15500	n/a	9/9/2025	9300	No	170	n/a	n/a	0.5882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-06	15500	n/a	9/9/2025	11700	No	170	n/a	n/a	0.5882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-07	15500	n/a	9/11/2025	5990	No	170	n/a	n/a	0.5882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-12	15500	n/a	9/9/2025	1130	No	170	n/a	n/a	0.5882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-14	15500	n/a	9/9/2025	8750	No	170	n/a	n/a	0.5882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-17	15500	n/a	9/11/2025	5530	No	170	n/a	n/a	0.5882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	**MCM-16 (bg)**	**-0.004259**	**-112**	**-92**	**Yes**	**22**	**9.091**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MCM-18 (bg)**	**-0.01183**	**-109**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**MCM-18 (bg)**	**-5.143**	**-146**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**MCM-20 (bg)**	**-12.57**	**-136**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-02 (bg)**	**0.02723**	**110**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-20 (bg)**	**-0.02641**	**-105**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-14**	**-0.05482**	**-169**	**-111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-17**	**-0.05885**	**-114**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	MCM-01 (bg)	0.003402	65	92	No	22	9.091	n/a	0.01	NP
Boron (mg/L)	MCM-02 (bg)	-0.006468	-81	-92	No	22	9.091	n/a	0.01	NP
Boron (mg/L)	MCM-11 (bg)	0.001888	61	92	No	22	9.091	n/a	0.01	NP
Boron (mg/L)	MCM-15 (bg)	0.0003768	9	92	No	22	9.091	n/a	0.01	NP
Boron (mg/L)	**MCM-16 (bg)**	**-0.004259**	**-112**	**-92**	**Yes**	**22**	**9.091**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MCM-18 (bg)**	**-0.01183**	**-109**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	MCM-19 (bg)	-0.007593	-13	-81	No	20	0	n/a	0.01	NP
Boron (mg/L)	MCM-20 (bg)	-0.01931	-58	-81	No	20	0	n/a	0.01	NP
Boron (mg/L)	MCM-12	0.01109	51	92	No	22	0	n/a	0.01	NP
Boron (mg/L)	MCM-17	-0.008732	-25	-98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	MCM-01 (bg)	-0.3925	-75	-98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	MCM-02 (bg)	0.06518	28	92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	MCM-11 (bg)	0.07232	4	92	No	22	4.545	n/a	0.01	NP
Calcium (mg/L)	MCM-15 (bg)	-0.2041	-37	-92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	MCM-16 (bg)	-0.03838	-28	-92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	**MCM-18 (bg)**	**-5.143**	**-146**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	MCM-19 (bg)	-2.385	-30	-81	No	20	0	n/a	0.01	NP
Calcium (mg/L)	**MCM-20 (bg)**	**-12.57**	**-136**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	MCM-05	0.6512	12	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	MCM-06	-3.736	-15	-118	No	26	0	n/a	0.01	NP
pH, Field (SU)	MCM-01 (bg)	-0.06818	-96	-105	No	24	0	n/a	0.01	NP
pH, Field (SU)	**MCM-02 (bg)**	**0.02723**	**110**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-11 (bg)	-0.03785	-75	-98	No	23	0	n/a	0.01	NP
pH, Field (SU)	MCM-15 (bg)	-0.04201	-102	-105	No	24	0	n/a	0.01	NP
pH, Field (SU)	MCM-16 (bg)	0	-2	-98	No	23	0	n/a	0.01	NP
pH, Field (SU)	MCM-18 (bg)	0.0448	77	81	No	20	0	n/a	0.01	NP
pH, Field (SU)	MCM-19 (bg)	-0.02439	-44	-81	No	20	0	n/a	0.01	NP
pH, Field (SU)	**MCM-20 (bg)**	**-0.02641**	**-105**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-05	-0.001169	-6	-111	No	25	0	n/a	0.01	NP
pH, Field (SU)	MCM-06	0	-1	-111	No	25	0	n/a	0.01	NP
pH, Field (SU)	MCM-07	-0.02012	-53	-111	No	25	0	n/a	0.01	NP
pH, Field (SU)	MCM-12	-0.003181	-15	-98	No	23	0	n/a	0.01	NP
pH, Field (SU)	**MCM-14**	**-0.05482**	**-169**	**-111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-17**	**-0.05885**	**-114**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits Summary Table

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:21 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	155	n/a	n/a	99.35	n/a	n/a	0.0003525	NP Inter(NDs)
Arsenic (mg/L)	0.032	173	n/a	n/a	19.08	n/a	n/a	NaN	NP Inter(normality)
Barium (mg/L)	0.22	171	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.021	170	n/a	n/a	31.76	n/a	n/a	0.0001633	NP Inter(normality)
Cadmium (mg/L)	0.0043	153	n/a	n/a	97.39	n/a	n/a	0.0003906	NP Inter(NDs)
Chromium (mg/L)	0.011	155	n/a	n/a	61.29	n/a	n/a	0.0003525	NP Inter(NDs)
Cobalt (mg/L)	0.036	170	n/a	n/a	77.65	n/a	n/a	0.0001633	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	34.9	161	n/a	n/a	0	n/a	n/a	0.0002591	NP Inter(normality)
Fluoride (mg/L)	3.98	174	n/a	n/a	46.55	n/a	n/a	NaN	NP Inter(normality)
Lead (mg/L)	0.002	170	n/a	n/a	89.41	n/a	n/a	0.0001633	NP Inter(NDs)
Lithium (mg/L)	0.0493	167	n/a	n/a	59.88	n/a	n/a	0.0001905	NP Inter(NDs)
Mercury (mg/L)	0.0007	154	n/a	n/a	97.4	n/a	n/a	0.0003711	NP Inter(NDs)
Molybdenum (mg/L)	0.002	154	n/a	n/a	88.96	n/a	n/a	0.0003711	NP Inter(NDs)
Selenium (mg/L)	0.0727	147	n/a	n/a	73.47	n/a	n/a	0.0005313	NP Inter(NDs)
Thallium (mg/L)	0.002	154	n/a	n/a	97.4	n/a	n/a	0.0003711	NP Inter(NDs)

MCMANUS ASH POND GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.032	0.032
Barium, Total (mg/L)	2		0.22	2
Beryllium, Total (mg/L)	0.004		0.021	0.021
Cadmium, Total (mg/L)	0.005		0.0043	0.005
Chromium, Total (mg/L)	0.1		0.011	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.036	0.036
Combined Radium, Total (pCi/L)	5		34.9	34.9
Fluoride, Total (mg/L)	4		3.98	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.049	0.049
Mercury, Total (mg/L)	0.002		0.0007	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.002	0.1
Selenium, Total (mg/L)	0.05		0.073	0.073
Thallium, Total (mg/L)	0.002		0.002	0.002

**Gray cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

Mann-Whitney - Arsenic & Lithium MCM-06 - All/Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 4:02 PM

Constituent	Well	Calc.	0.01	Alpha	Sig.	Method
Arsenic (mg/L)	**MCM-06**	**-3.166**	**Yes**	**0.01**	**Yes**	**Mann-W**
Lithium (mg/L)	**MCM-06**	**-3.071**	**Yes**	**0.01**	**Yes**	**Mann-W**

Arsenic & Lithium MCM-06 Trend Test - Truncated Record - All Results (No Significant)

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:27 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	MCM-06	0.006933	7	12	No	6	0	n/a	0.05	NP
Lithium (mg/L)	MCM-06	0.008254	13	15	No	7	0	n/a	0.05	NP

Appendix IV Confidence Intervals - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**MCM-06**	**0.1142**	**0.05573**	**0.032**	**Yes**	**6**	**0.08498**	**0.02129**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DPZ-02**	**0.09138**	**0.07093**	**0.049**	**Yes**	**13**	**0.07724**	**0.02433**	**7.692**	**None**	**x^3**	**0.01**	**Param.**

Appendix IV Confidence Intervals - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MCM-05	0.003	0.00159	0.006	No	20	0.002851	0.000461	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	MCM-06	0.003	0.0029	0.006	No	21	0.002799	0.0006186	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	MCM-14	0.003	0.0004	0.006	No	20	0.00287	0.0005814	95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-04	0.005379	0.002771	0.032	No	22	0.004436	0.003038	13.64	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	MCM-05	0.01406	0.005746	0.032	No	38	0.01335	0.01423	7.895	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	**MCM-06**	**0.1142**	**0.05573**	**0.032**	**Yes**	**6**	**0.08498**	**0.02129**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	MCM-07	0.01614	0.0106	0.032	No	37	0.01411	0.007271	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MCM-12	0.005	0.00234	0.032	No	22	0.003829	0.001799	68.18	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-14	0.025	0.0022	0.032	No	23	0.01534	0.01134	56.52	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-17	0.025	0.0024	0.032	No	23	0.01441	0.01136	52.17	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DPZ-02	0.025	0.01363	0.032	No	13	0.01932	0.007642	7.692	None	No	0.01	Param.
Barium (mg/L)	MCM-04	0.06605	0.03398	2	No	22	0.06044	0.06177	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MCM-05	0.03962	0.01387	2	No	23	0.04593	0.09089	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MCM-06	0.1307	0.06143	2	No	23	0.1042	0.07529	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	MCM-07	0.1612	0.08499	2	No	22	0.1333	0.08979	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	MCM-12	0.114	0.08428	2	No	22	0.09915	0.02771	0	None	No	0.01	Param.
Barium (mg/L)	MCM-14	0.111	0.05572	2	No	22	0.08337	0.05153	0	None	No	0.01	Param.
Barium (mg/L)	MCM-17	0.1166	0.06868	2	No	22	0.09262	0.0446	0	None	No	0.01	Param.
Barium (mg/L)	DPZ-02	0.07727	0.04818	2	No	11	0.06273	0.01745	0	None	No	0.01	Param.
Beryllium (mg/L)	MCM-04	0.0003618	0.0002106	0.021	No	22	0.0003824	0.0001554	40.91	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	MCM-05	0.0025	0.000054	0.021	No	23	0.002394	0.00051	95.65	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-07	0.0005	0.00012	0.021	No	22	0.0004442	0.000144	86.36	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-12	0.001401	0.000749	0.021	No	22	0.001075	0.0006074	9.091	None	No	0.01	Param.
Beryllium (mg/L)	MCM-14	0.0025	0.0002	0.021	No	22	0.001957	0.001026	77.27	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-17	0.0025	0.00024	0.021	No	22	0.001172	0.001132	40.91	None	No	0.01	NP (normality)
Cadmium (mg/L)	MCM-04	0.001	0.00043	0.005	No	20	0.0009715	0.0001275	95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MCM-07	0.001	0.0002	0.005	No	20	0.00096	0.0001789	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-04	0.01	0.0013	0.1	No	20	0.006241	0.004324	55	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-05	0.01	0.0012	0.1	No	20	0.006852	0.004408	65	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-06	0.01	0.0015	0.1	No	21	0.007864	0.003917	76.19	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-07	0.01	0.0023	0.1	No	20	0.006545	0.003924	55	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-12	0.0077	0.0054	0.1	No	20	0.009656	0.006198	25	None	No	0.01	NP (normality)
Chromium (mg/L)	MCM-14	0.01	0.0018	0.1	No	20	0.006638	0.004241	60	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-17	0.01054	0.006259	0.1	No	20	0.01101	0.005839	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MCM-04	0.004464	0.002007	0.036	No	23	0.003557	0.002585	30.43	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MCM-05	0.0019	0.00026	0.036	No	23	0.001007	0.0002483	91.3	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-06	0.001	0.0009	0.036	No	23	0.0009652	0.0001465	91.3	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-07	0.0011	0.00031	0.036	No	22	0.0009732	0.0001496	90.91	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-12	0.001	0.000481	0.036	No	22	0.0007264	0.0002613	45.45	None	No	0.01	NP (normality)
Cobalt (mg/L)	MCM-14	0.001	0.0006	0.036	No	22	0.0009818	0.00008528	95.45	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-17	0.001	0.0007	0.036	No	22	0.000925	0.0002057	86.36	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	MCM-04	4.894	2.935	34.9	No	22	4.059	2.062	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-05	3.731	1.843	34.9	No	23	3.082	2.203	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-06	7.08	3.518	34.9	No	22	5.299	3.318	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-07	8.605	5.821	34.9	No	23	7.213	2.662	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-12	3.199	2.332	34.9	No	22	2.765	0.8081	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-14	6.982	3.958	34.9	No	23	5.47	2.891	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-17	6.638	3.922	34.9	No	23	5.28	2.596	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DPZ-02	9.254	5.841	34.9	No	11	7.547	2.048	0	None	No	0.01	Param.
Fluoride (mg/L)	MCM-04	0.12	0.0941	4	No	23	0.1222	0.1057	52.17	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MCM-05	0.5353	0.307	4	No	25	0.4212	0.229	12	None	No	0.01	Param.
Fluoride (mg/L)	MCM-06	0.3127	0.1191	4	No	23	0.2762	0.2343	34.78	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MCM-07	0.692	0.1	4	No	24	0.3859	0.3228	33.33	None	No	0.01	NP (normality)
Fluoride (mg/L)	MCM-12	1.339	1.084	4	No	23	1.179	0.3147	4.348	None	x^2	0.01	Param.
Fluoride (mg/L)	MCM-14	0.273	0.1	4	No	25	0.2057	0.1682	52	None	No	0.01	NP (NDs)

Appendix IV Confidence Intervals - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	MCM-17	0.8666	0.3819	4	No	24	0.6941	0.5004	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	DPZ-02	0.37	0.1	4	No	11	0.1881	0.215	72.73	Kaplan-Meier	No	0.006	NP (NDs)
Lead (mg/L)	MCM-05	0.002	0.0002	0.015	No	23	0.001922	0.0003753	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-06	0.002	0.00012	0.015	No	23	0.001918	0.000392	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-07	0.002	0.0002	0.015	No	22	0.001745	0.0006583	86.36	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-12	0.002	0.00083	0.015	No	22	0.001547	0.0007766	72.73	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-14	0.002	0.00008	0.015	No	22	0.001913	0.0004093	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-17	0.002	0.00034	0.015	No	22	0.001758	0.0006237	86.36	None	No	0.01	NP (NDs)
Lithium (mg/L)	MCM-04	0.01	0.002	0.049	No	22	0.007068	0.003998	63.64	None	No	0.01	NP (NDs)
Lithium (mg/L)	MCM-05	0.0376	0.022	0.049	No	23	0.05373	0.113	0	None	No	0.01	NP (normality)
Lithium (mg/L)	MCM-06	0.06349	0.03943	0.049	No	7	0.05146	0.01013	0	None	No	0.01	Param.
Lithium (mg/L)	MCM-07	0.03892	0.01944	0.049	No	24	0.03557	0.03138	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	MCM-12	0.01132	0.009181	0.049	No	22	0.01005	0.00235	13.64	None	x^2	0.01	Param.
Lithium (mg/L)	MCM-14	0.04084	0.02325	0.049	No	24	0.03205	0.01723	8.333	None	No	0.01	Param.
Lithium (mg/L)	MCM-17	0.02548	0.01678	0.049	No	22	0.02113	0.008105	4.545	None	No	0.01	Param.
Lithium (mg/L)	**DPZ-02**	**0.09138**	**0.07093**	**0.049**	**Yes**	**13**	**0.07724**	**0.02433**	**7.692**	**None**	**x^3**	**0.01**	**Param.**
Mercury (mg/L)	MCM-04	0.00071	0.0002	0.002	No	20	0.0002255	0.000114	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-05	0.0002	0.000042	0.002	No	20	0.0001921	0.00003533	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-06	0.0002	0.00016	0.002	No	21	0.0001981	0.000008729	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-07	0.00067	0.0002	0.002	No	20	0.0002235	0.0001051	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-14	0.00066	0.0002	0.002	No	20	0.000223	0.0001029	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-17	0.00064	0.0002	0.002	No	20	0.000222	0.00009839	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-04	0.001	0.000218	0.1	No	20	0.0009184	0.0002514	90	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-05	0.02	0.00113	0.1	No	20	0.01198	0.009287	55	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-06	0.02	0.000983	0.1	No	21	0.01024	0.009543	47.62	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MCM-07	0.02	0.00095	0.1	No	20	0.01331	0.009349	65	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-12	0.015	0.00044	0.1	No	20	0.01062	0.006858	70	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-17	0.00102	0.000313	0.1	No	20	0.0008551	0.0003003	75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	DPZ-02	0.005	0.000217	0.1	No	9	0.002907	0.002482	55.56	None	No	0.002	NP (NDs)
Selenium (mg/L)	MCM-04	0.005	0.0025	0.05	No	22	0.004455	0.001462	86.36	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-05	0.025	0.0028	0.05	No	23	0.02105	0.008808	82.61	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-06	0.025	0.0054	0.05	No	23	0.01757	0.0105	65.22	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-07	0.025	0.0025	0.05	No	22	0.01594	0.01117	59.09	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-12	0.005	0.002	0.05	No	22	0.003853	0.001568	63.64	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-14	0.025	0.0057	0.05	No	22	0.01892	0.01019	72.73	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-17	0.025	0.003	0.05	No	22	0.01718	0.0107	63.64	None	No	0.01	NP (NDs)
Selenium (mg/L)	DPZ-02	0.025	0.00205	0.05	No	11	0.0208	0.009343	81.82	None	No	0.006	NP (NDs)
Thallium (mg/L)	MCM-06	0.002	0.000076	0.002	No	21	0.001908	0.0004199	95.24	None	No	0.01	NP (NDs)

Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:48 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	**MCM-11 (bg)**	**0.002042**	**35**	**30**	**Yes**	**12**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	**MCM-18 (bg)**	**-0.0001513**	**-57**	**-53**	**Yes**	**18**	**11.11**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	**MCM-06**	**-0.07493**	**-54**	**-37**	**Yes**	**14**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DPZ-02**	**-0.004421**	**-46**	**-34**	**Yes**	**13**	**7.692**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:48 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	MCM-01 (bg)	-0.0001926	-10	-30	No	12	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-02 (bg)	0	9	30	No	12	83.33	n/a	0.05	NP
Arsenic (mg/L)	**MCM-11 (bg)**	**0.002042**	**35**	**30**	**Yes**	**12**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	MCM-15 (bg)	0.0003348	10	30	No	12	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-16 (bg)	0	10	30	No	12	75	n/a	0.05	NP
Arsenic (mg/L)	**MCM-18 (bg)**	**-0.0001513**	**-57**	**-53**	**Yes**	**18**	**11.11**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	MCM-19 (bg)	0.0005527	26	53	No	18	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-20 (bg)	-0.0004024	-13	-53	No	18	0	n/a	0.05	NP
Arsenic (mg/L)	**MCM-06**	**-0.07493**	**-54**	**-37**	**Yes**	**14**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	MCM-01 (bg)	0	3	30	No	12	91.67	n/a	0.05	NP
Lithium (mg/L)	MCM-02 (bg)	0	0	30	No	12	100	n/a	0.05	NP
Lithium (mg/L)	MCM-11 (bg)	0	-4	-30	No	12	66.67	n/a	0.05	NP
Lithium (mg/L)	MCM-15 (bg)	0	3	30	No	12	91.67	n/a	0.05	NP
Lithium (mg/L)	MCM-16 (bg)	0	3	30	No	12	91.67	n/a	0.05	NP
Lithium (mg/L)	MCM-18 (bg)	0	6	45	No	16	56.25	n/a	0.05	NP
Lithium (mg/L)	MCM-19 (bg)	0	-2	-53	No	18	5.556	n/a	0.05	NP
Lithium (mg/L)	MCM-20 (bg)	0	6	53	No	18	0	n/a	0.05	NP
Lithium (mg/L)	**DPZ-02**	**-0.004421**	**-46**	**-34**	**Yes**	**13**	**7.692**	**n/a**	**0.05**	**NP**

FIGURE A.

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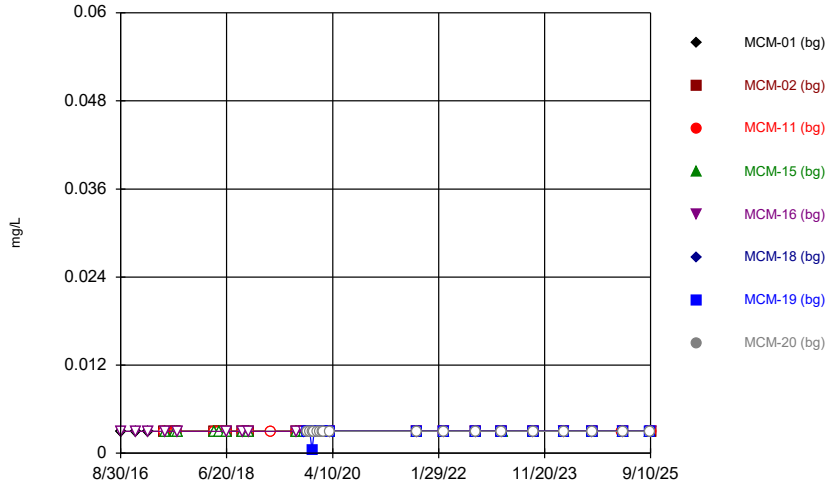
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 11/10/2025 2:51 PM
Plant McManus Client: Southern Company Data: McManus AP1

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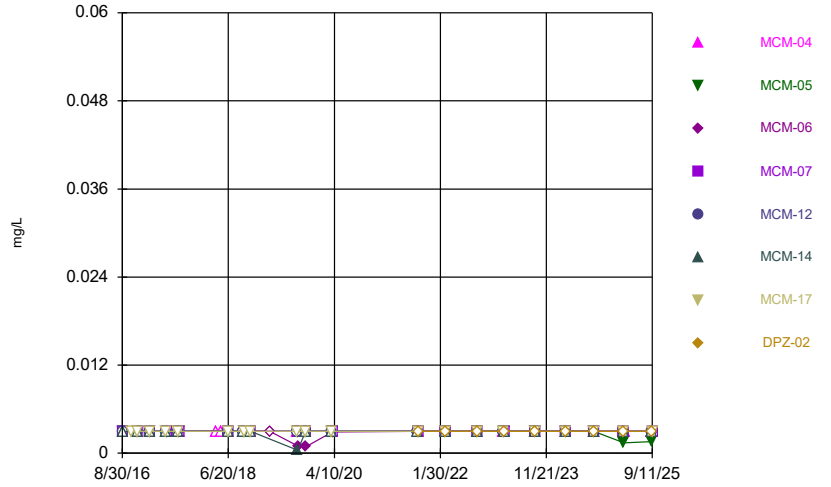

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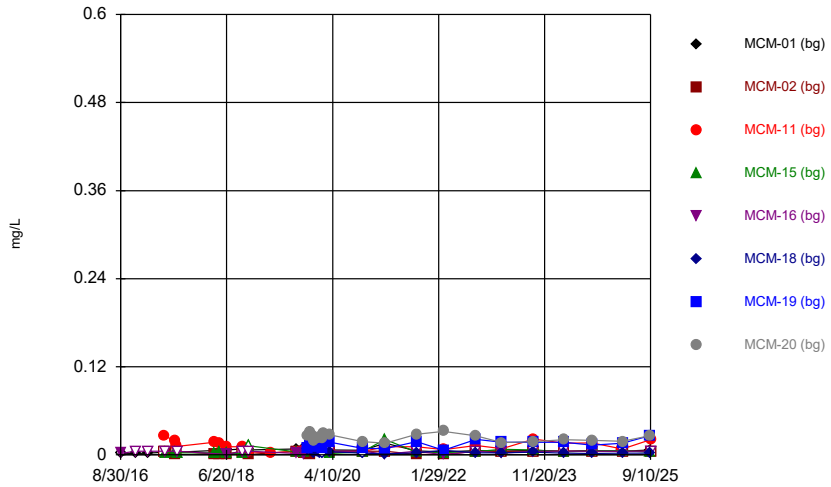

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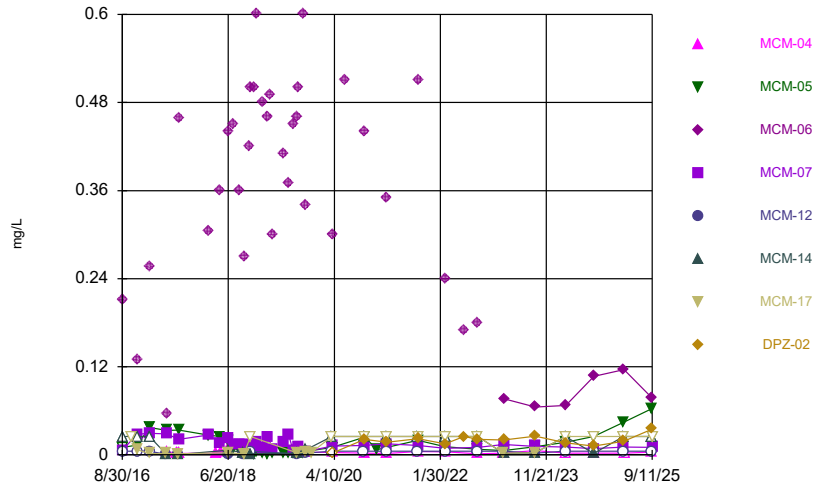

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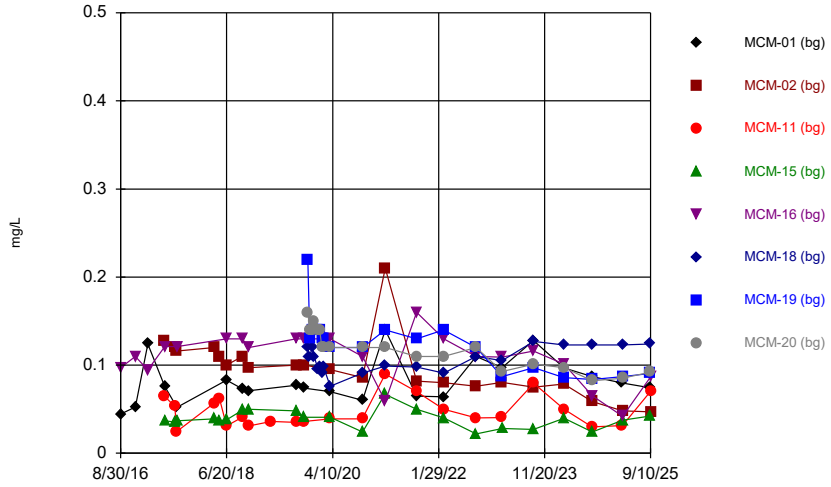

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Plant McManus Client: Southern Company Data: McManus AP1

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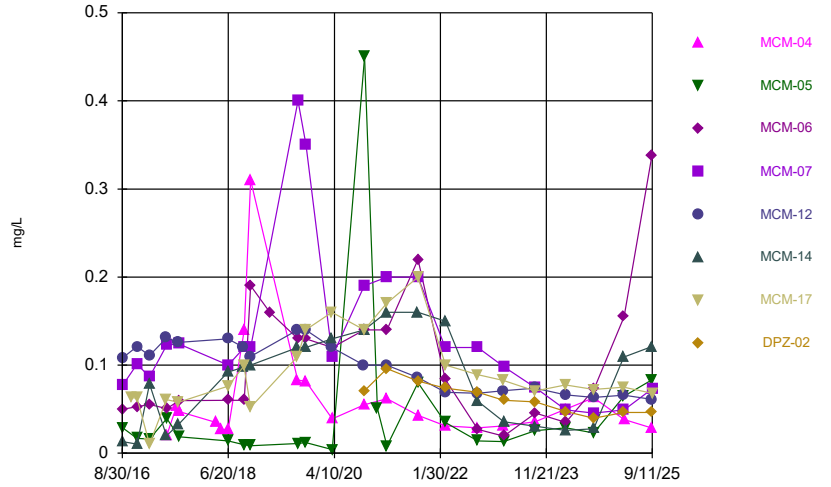
Time Series



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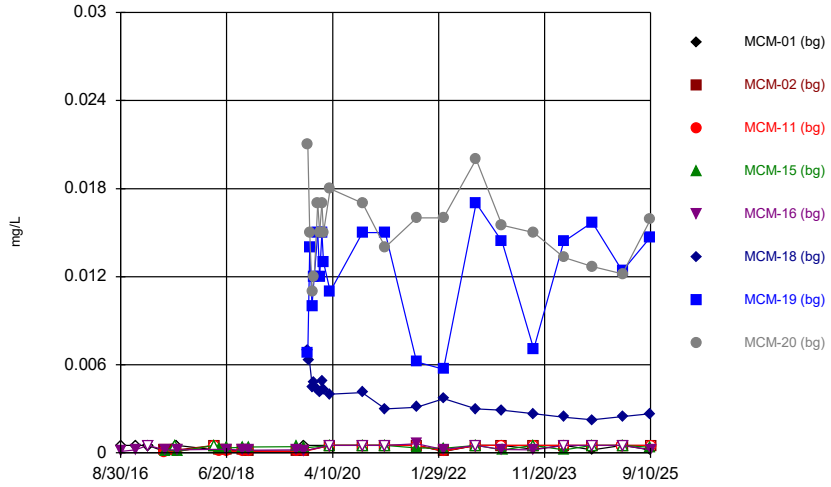

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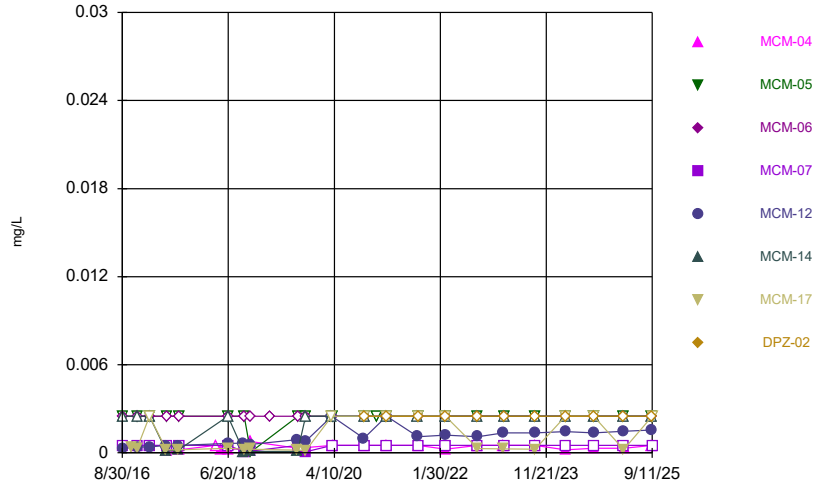

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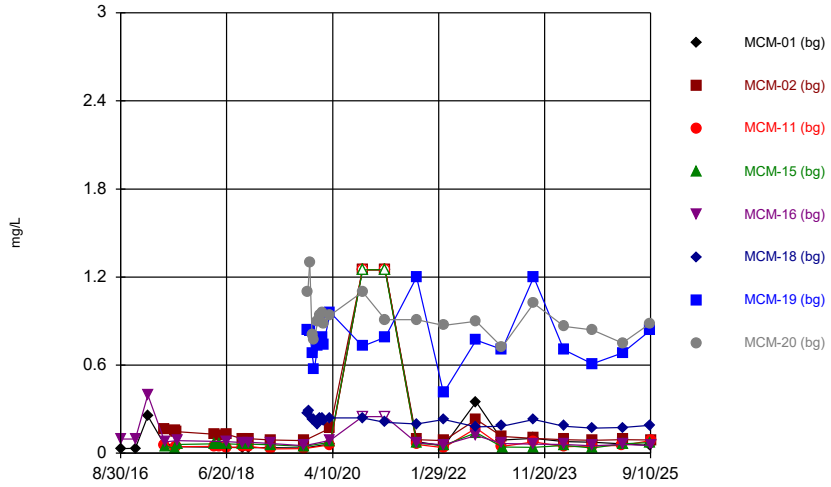

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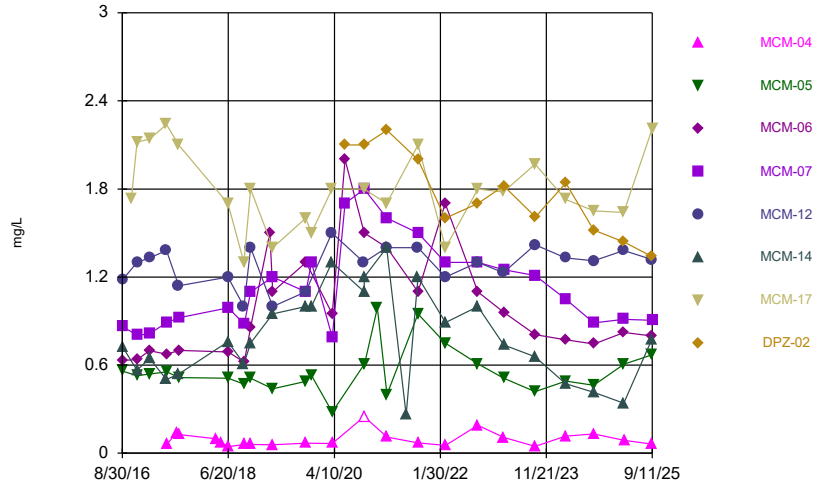

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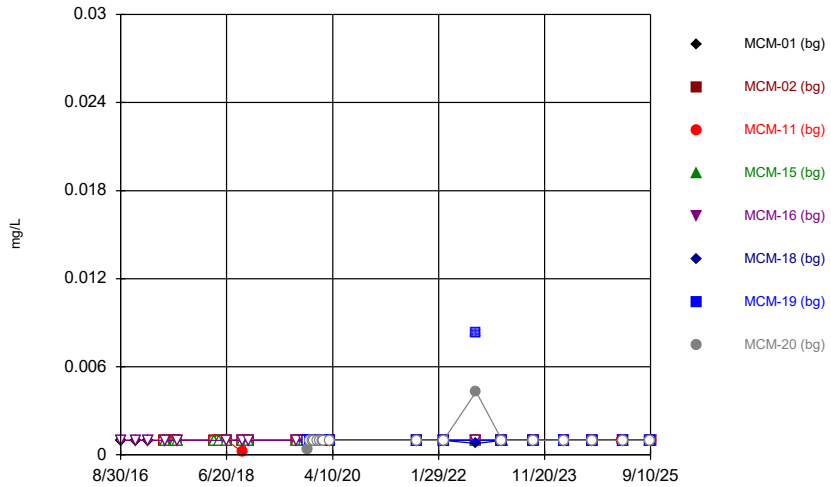

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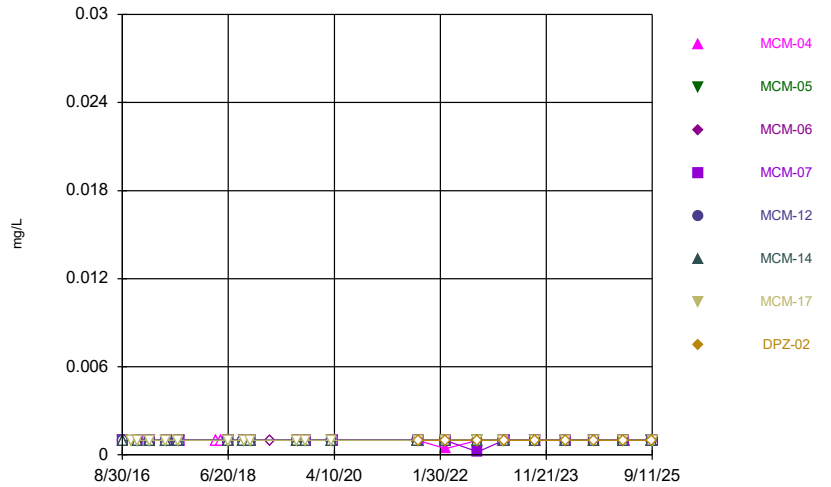

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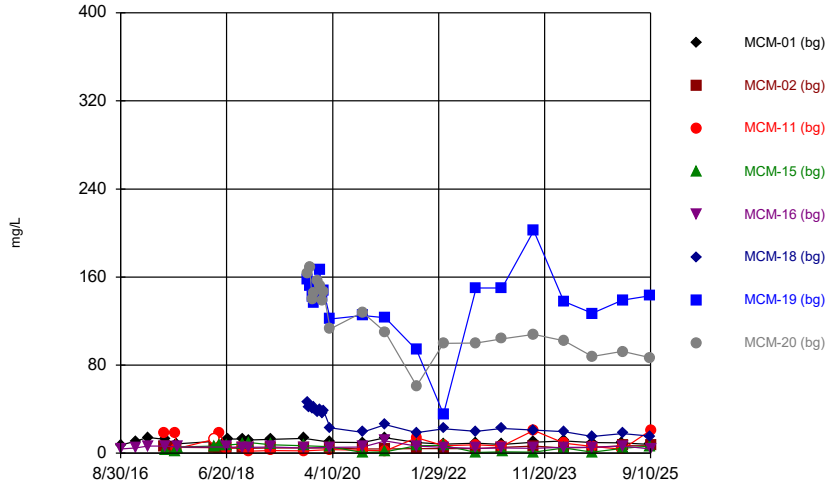

Constituent: Calcium Analysis Run 11/10/2025 2:51 PM
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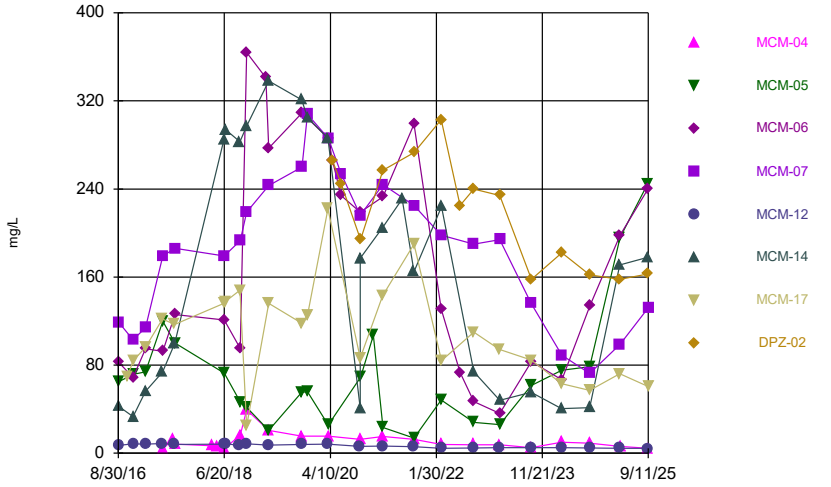

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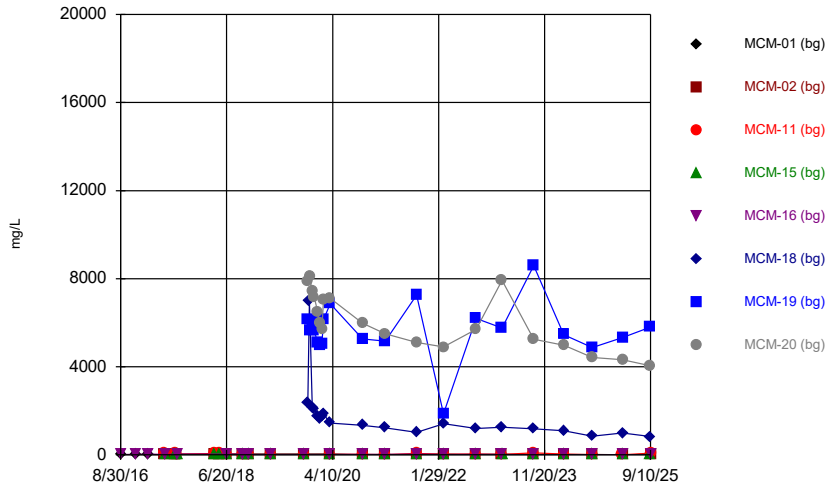

Constituent: Chloride Analysis Run 11/10/2025 2:51 PM
Plant McManus Client: Southern Company Data: McManus AP1

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Hollow symbols indicate censored values.

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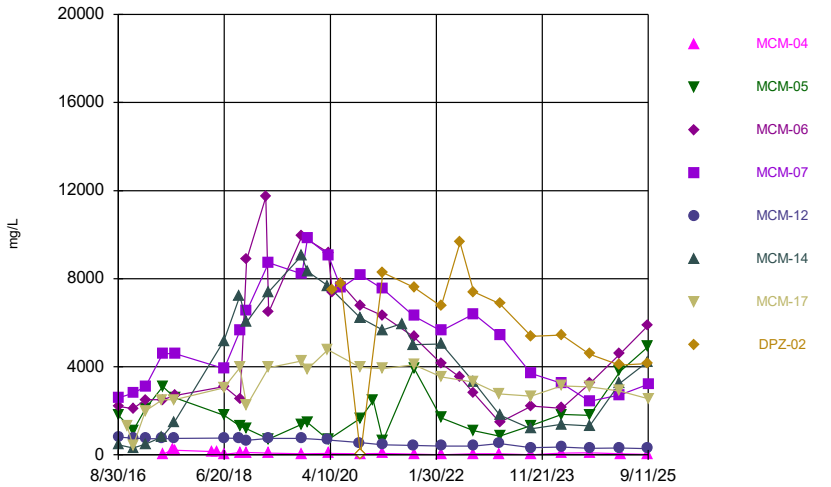

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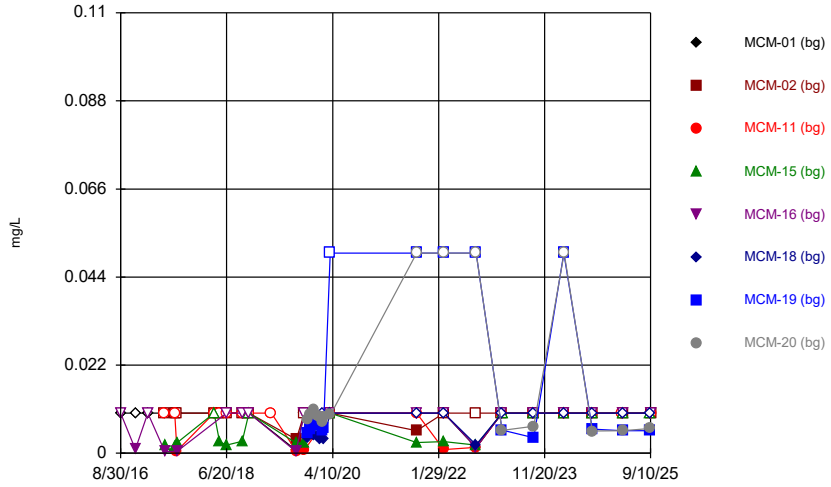

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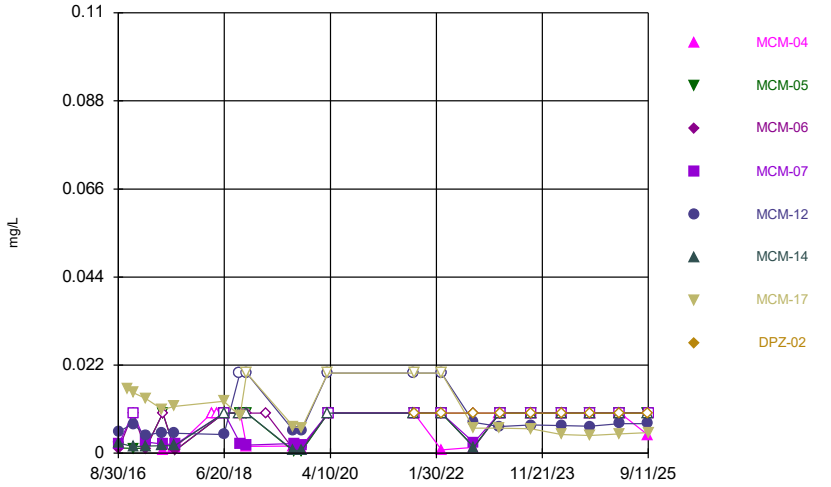

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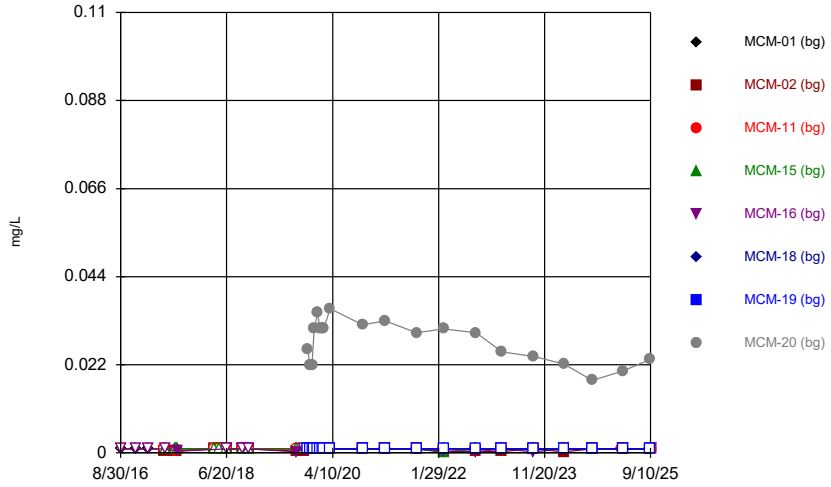

Constituent: Cobalt Analysis Run 11/10/2025 2:51 PM
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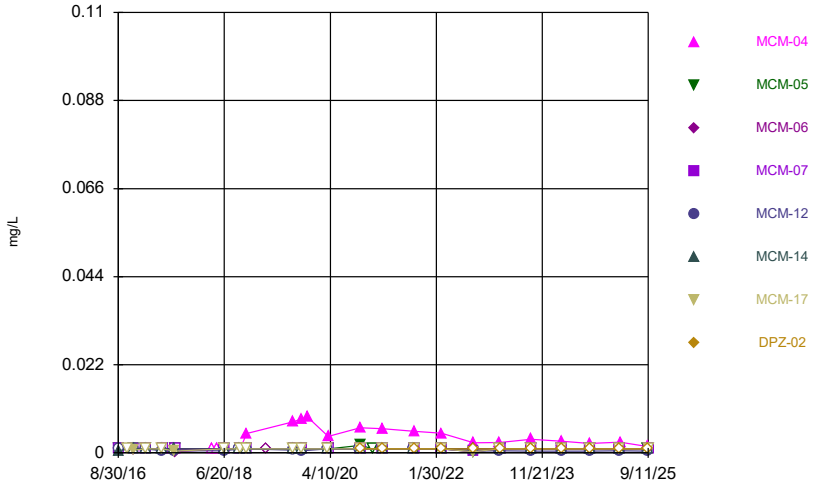

Constituent: Cobalt Analysis Run 11/10/2025 2:51 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

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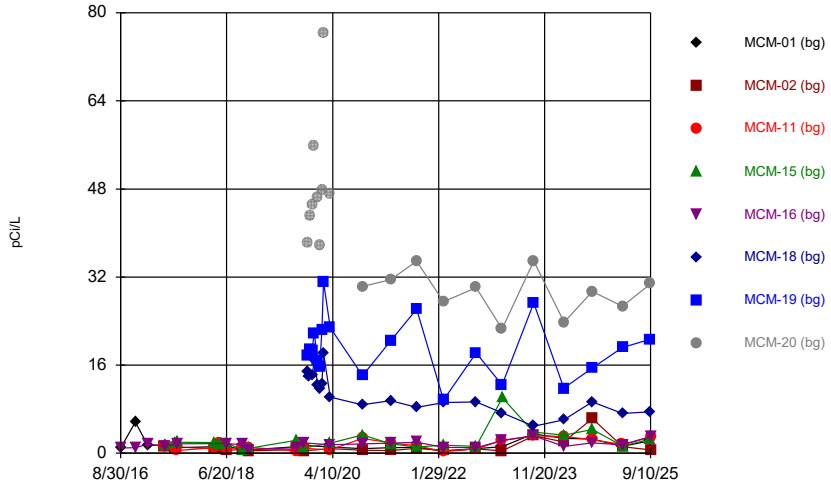
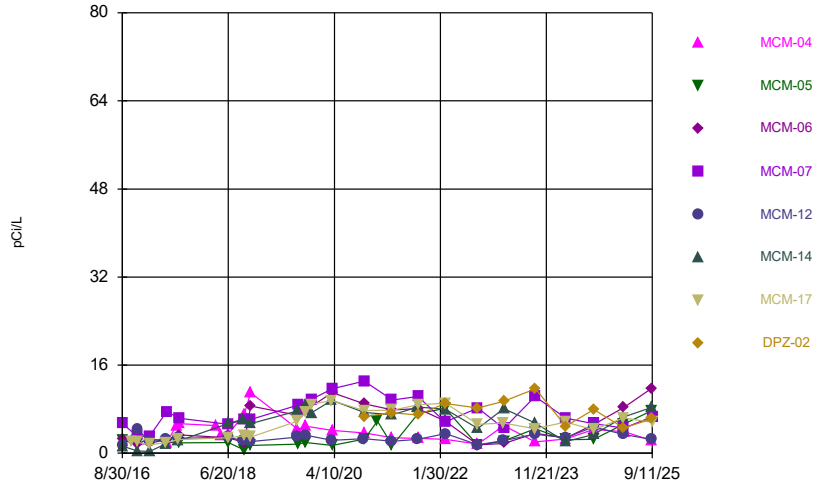


Constituent: Combined Radium 226 + 228 Analysis Run 11/10/2025 2:51 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Time Series

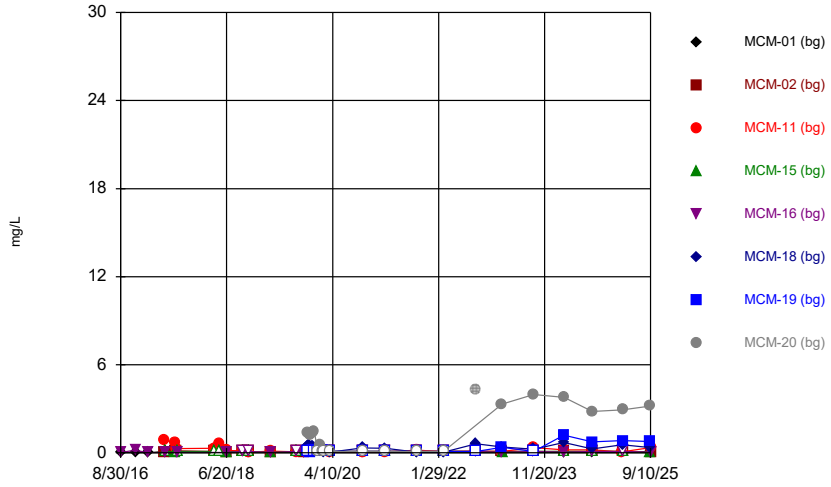


Constituent: Combined Radium 226 + 228 Analysis Run 11/10/2025 2:51 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

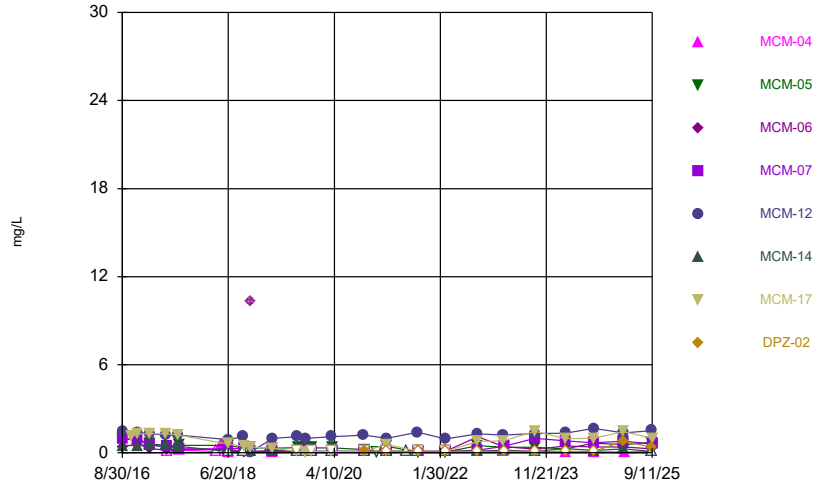


Constituent: Fluoride Analysis Run 11/10/2025 2:51 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

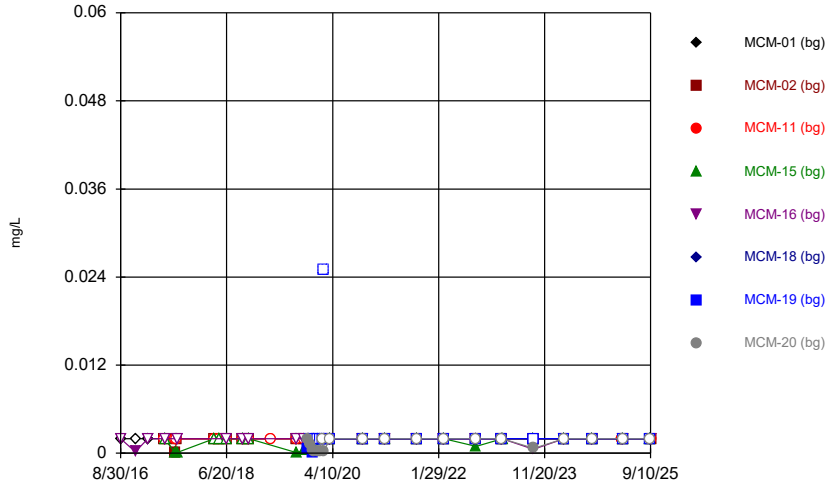


Constituent: Fluoride Analysis Run 11/10/2025 2:51 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

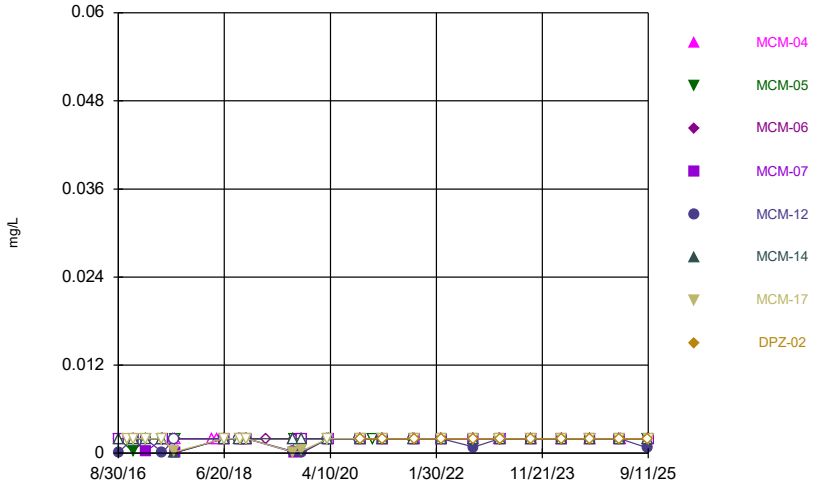
Time Series



Constituent: Lead Analysis Run 11/10/2025 2:51 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

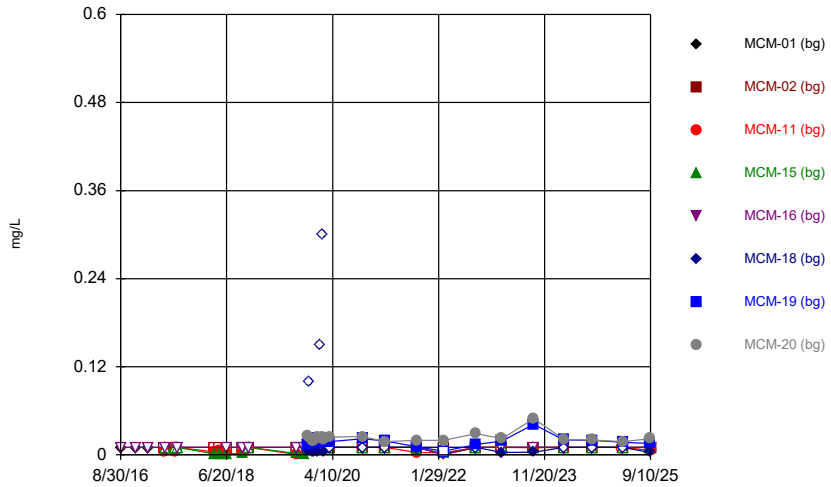
Time Series



Constituent: Lead Analysis Run 11/10/2025 2:51 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

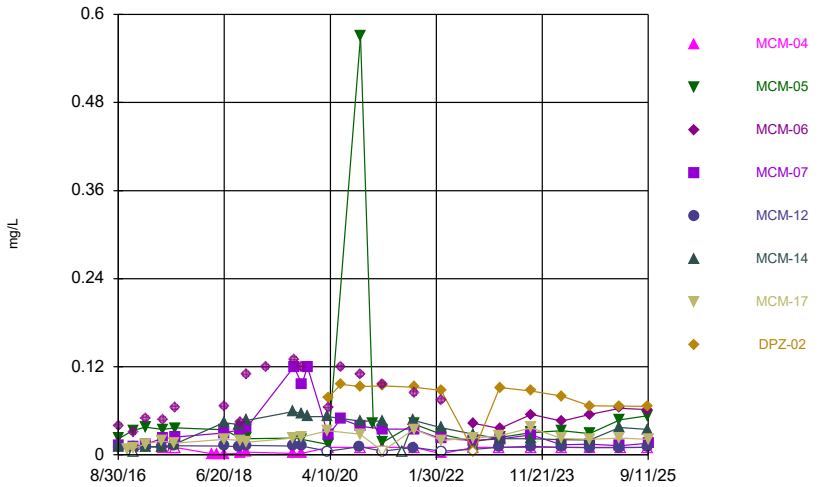
Time Series



Constituent: Lithium Analysis Run 11/10/2025 2:51 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

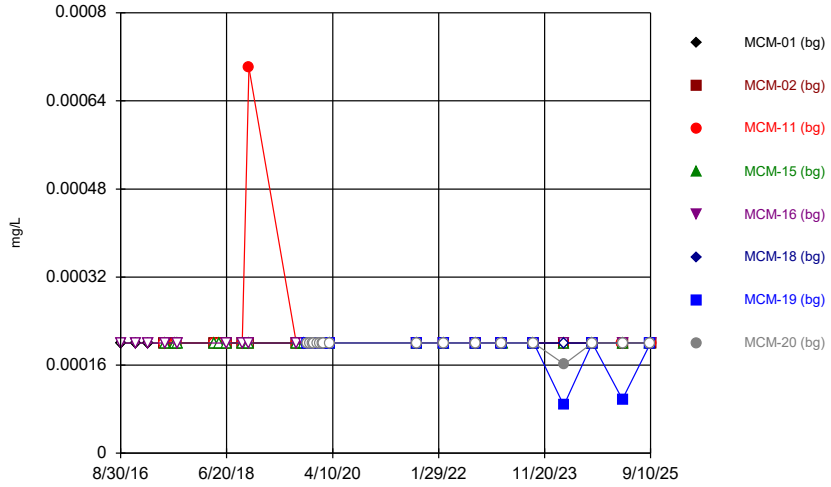
Time Series



Constituent: Lithium Analysis Run 11/10/2025 2:51 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

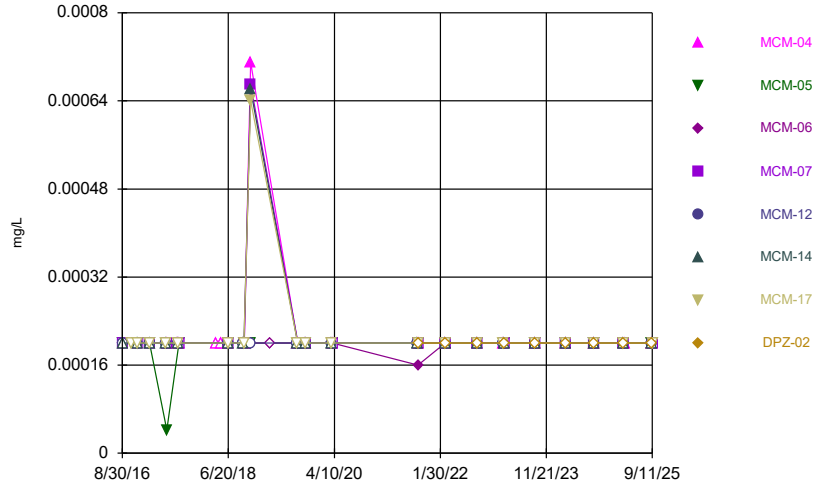
Time Series



Constituent: Mercury Analysis Run 11/10/2025 2:51 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

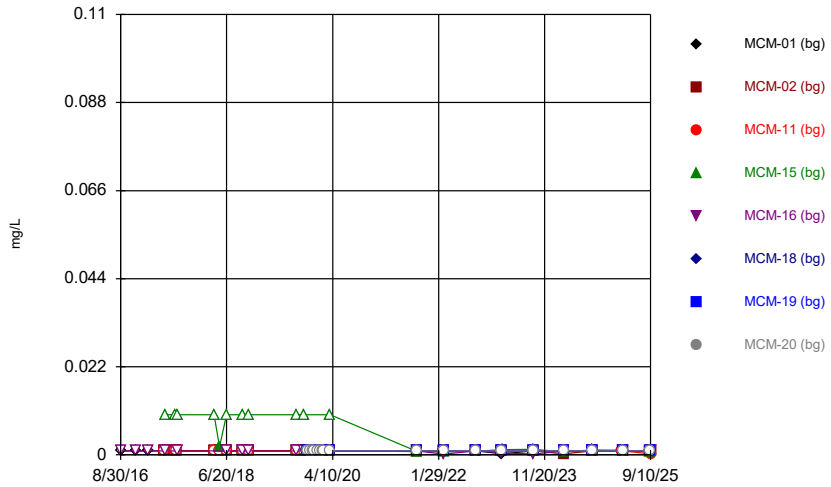
Time Series



Constituent: Mercury Analysis Run 11/10/2025 2:51 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

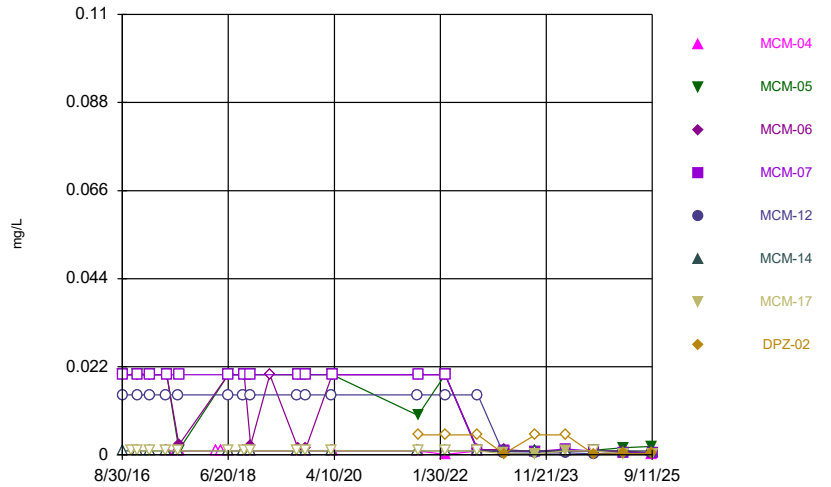
Time Series



Constituent: Molybdenum Analysis Run 11/10/2025 2:51 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

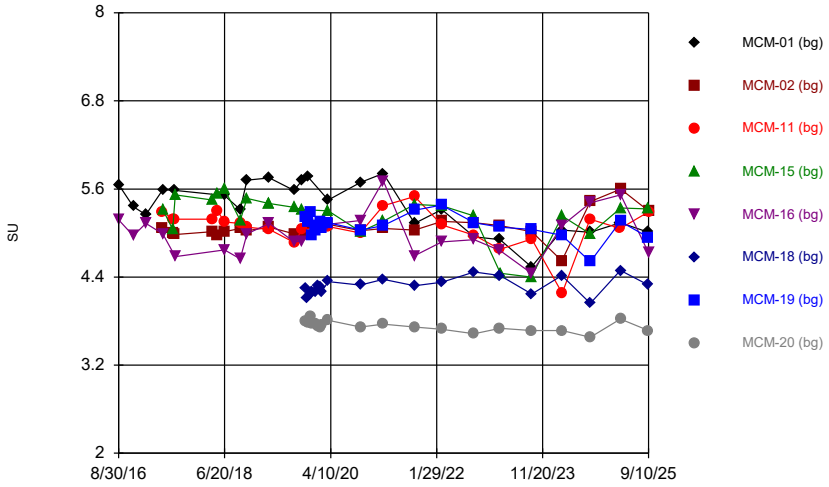
Time Series



Constituent: Molybdenum Analysis Run 11/10/2025 2:51 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Time Series

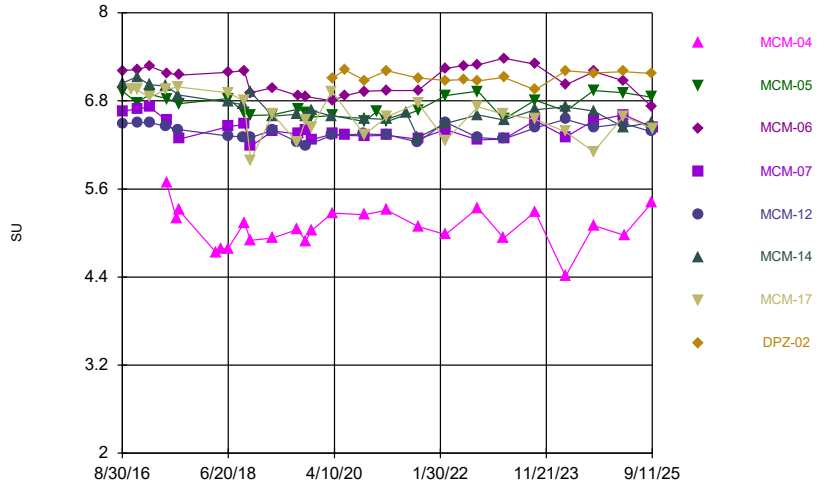


Constituent: pH, Field Analysis Run 11/10/2025 2:51 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Time Series

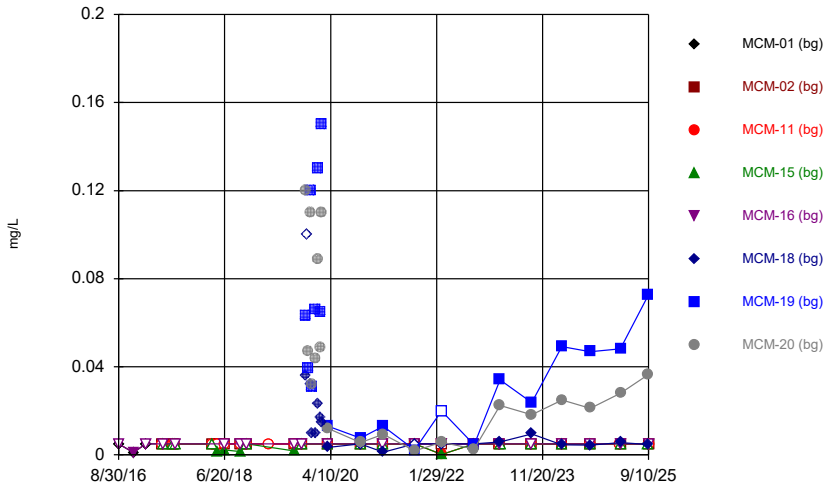


Constituent: pH, Field Analysis Run 11/10/2025 2:51 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

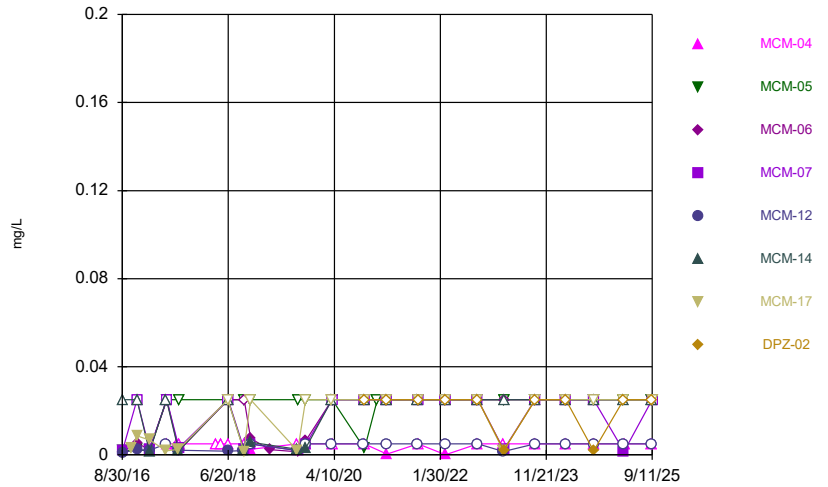


Constituent: Selenium Analysis Run 11/10/2025 2:51 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

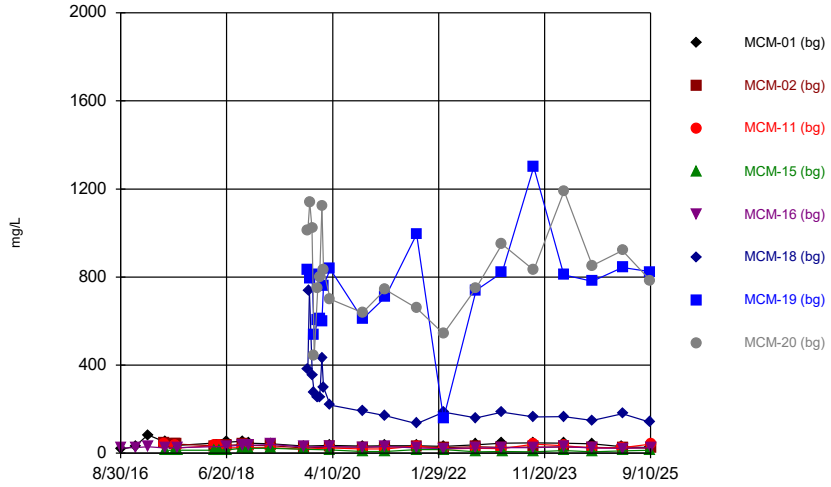


Constituent: Selenium Analysis Run 11/10/2025 2:51 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Time Series



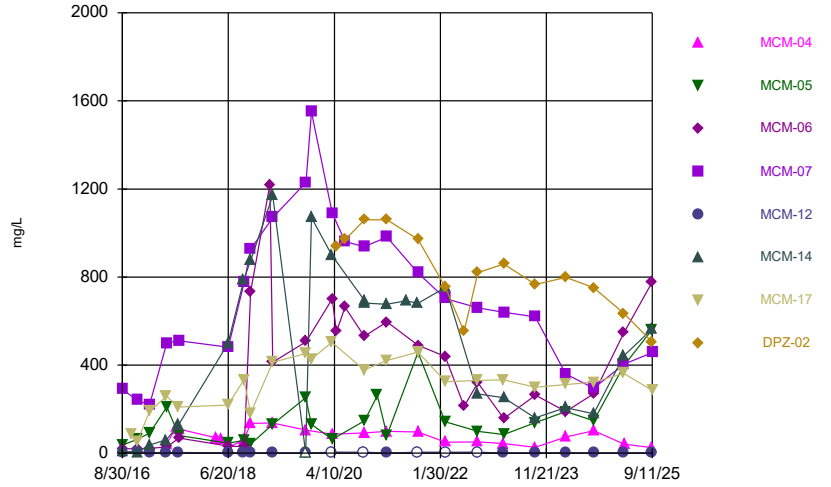
Constituent: Sulfate Analysis Run 11/10/2025 2:51 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



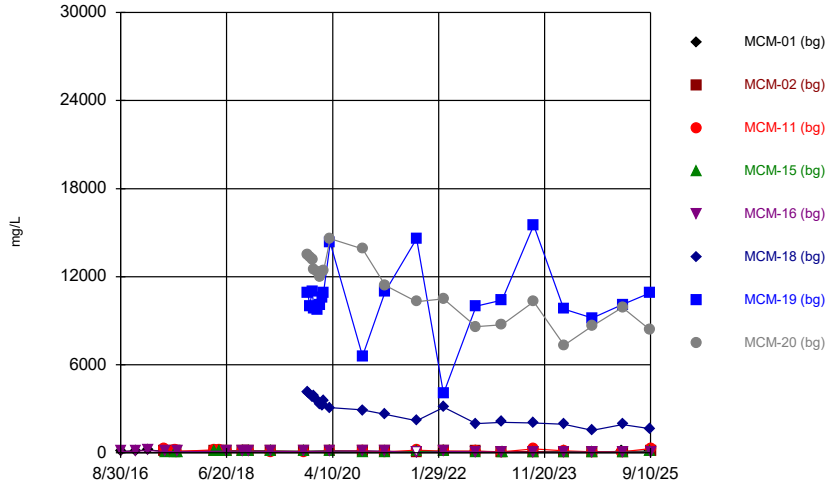
Constituent: Sulfate Analysis Run 11/10/2025 2:51 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



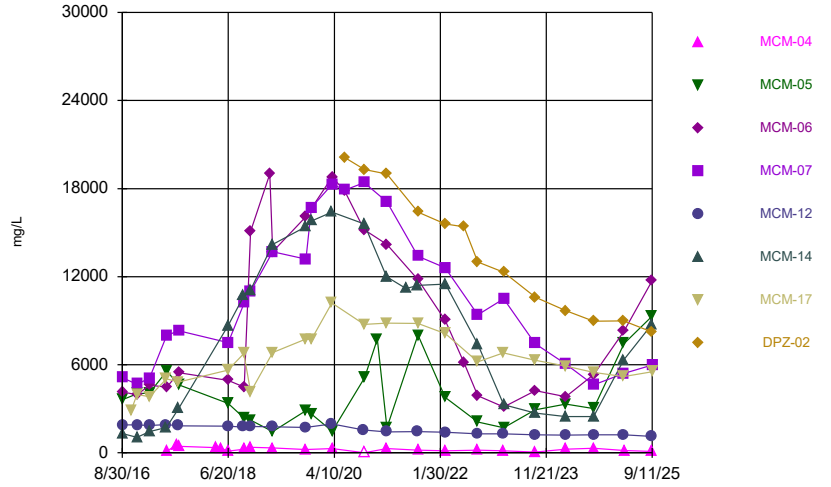
Constituent: TDS Analysis Run 11/10/2025 2:51 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

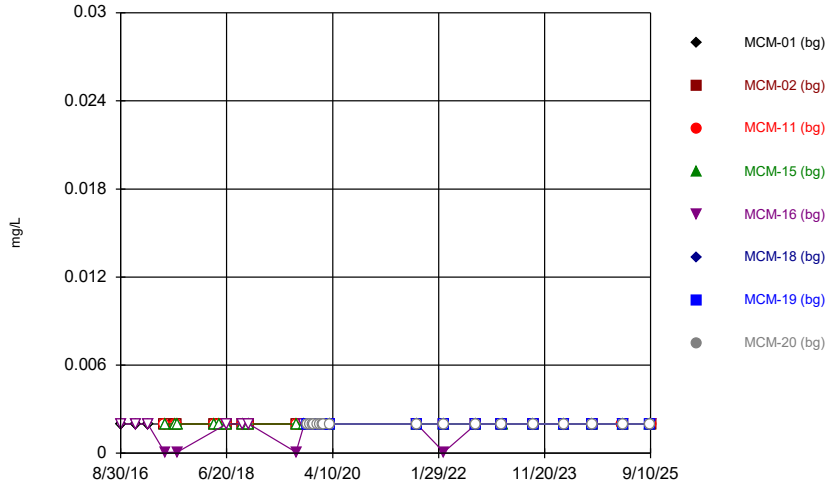


Constituent: TDS Analysis Run 11/10/2025 2:51 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

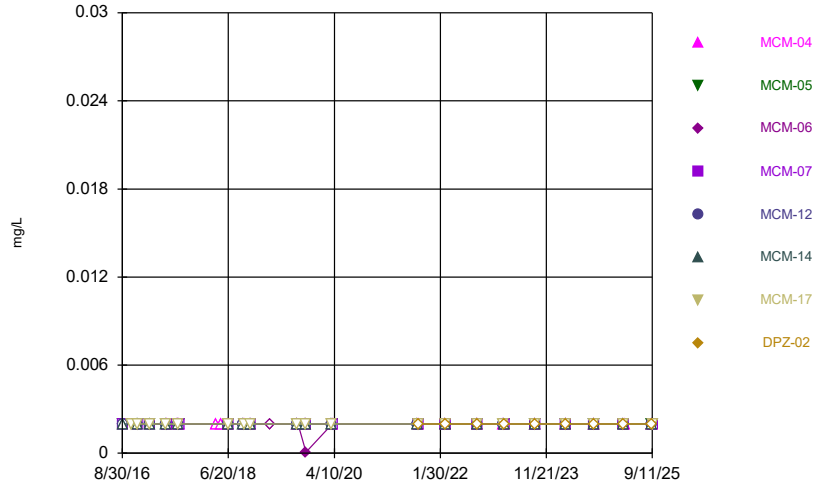


Constituent: Thallium Analysis Run 11/10/2025 2:51 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 11/10/2025 2:51 PM

Plant McManus Client: Southern Company Data: McManus AP1

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.003				<0.003			
11/30/2016	<0.003				<0.003			
2/15/2017	<0.003				<0.003			
5/31/2017		<0.003	<0.003					
6/1/2017	<0.003				<0.003			
6/2/2017				<0.003				
8/2/2017		<0.003	<0.003	<0.003				
8/15/2017			<0.003					
8/16/2017	<0.003	<0.003						
8/17/2017				<0.003	<0.003			
4/4/2018			<0.003	<0.003				
4/5/2018		<0.003						
5/8/2018			<0.003	<0.003				
5/9/2018		<0.003						
6/19/2018	<0.003	<0.003	<0.003	<0.003				
6/20/2018					<0.003			
9/25/2018			<0.003					
9/26/2018	<0.003	<0.003		<0.003	<0.003			
11/6/2018			<0.003					
11/7/2018	<0.003	<0.003		<0.003	<0.003			
3/25/2019			<0.003					
8/27/2019	<0.003			<0.003	<0.003			
8/28/2019		<0.003	<0.003					
10/15/2019				<0.003				
10/16/2019	<0.003	<0.003	<0.003		<0.003			
11/7/2019						<0.003	<0.003	<0.003
11/18/2019						<0.003		
11/19/2019							<0.003	<0.003
12/4/2019							0.00041 (J)	<0.003
12/5/2019						<0.003		
12/17/2019							<0.003	
12/18/2019						<0.003		<0.003
1/8/2020							<0.003	<0.003
1/9/2020						<0.003		
1/21/2020						<0.003	<0.003	<0.003
2/4/2020						<0.003	<0.003	<0.003
2/13/2020						<0.003	<0.003	<0.003
3/26/2020	<0.003							
3/27/2020		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/14/2021	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/1/2022							<0.003	<0.003
3/2/2022	<0.003	<0.003	<0.003	<0.003		<0.003		
3/3/2022					<0.003			
9/20/2022						<0.003	<0.003	<0.003
9/21/2022	<0.003	<0.003	<0.003	<0.003	<0.003			
2/28/2023						<0.003	<0.003	<0.003
3/1/2023	<0.003	<0.003	<0.003		<0.003			
3/2/2023				<0.003				
9/12/2023	<0.003			<0.003	<0.003			
9/13/2023			<0.003				<0.003	<0.003
9/14/2023		<0.003				<0.003		
3/19/2024		<0.003				<0.003	<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/20/2024	<0.003		<0.003	<0.003				
3/21/2024					<0.003			<0.003
9/10/2024			<0.003					
9/11/2024	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003
3/18/2025	<0.003		<0.003					
3/19/2025						<0.003	<0.003	<0.003
3/20/2025		<0.003		<0.003	<0.003			
9/9/2025	<0.003			<0.003		<0.003	<0.003	<0.003
9/10/2025		<0.003	<0.003		<0.003			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.003	<0.003		
8/31/2016		<0.003	<0.003	<0.003				
10/25/2016							<0.003	
11/30/2016		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
2/15/2017					<0.003	<0.003	<0.003	
2/16/2017		<0.003	<0.003	<0.003				
5/31/2017					<0.003	<0.003	<0.003	
6/1/2017	<0.003							
6/2/2017		<0.003	<0.003	<0.003				
8/2/2017	<0.003							
8/15/2017					<0.003		<0.003	
8/16/2017						<0.003		
8/17/2017	<0.003	<0.003	<0.003	<0.003				
4/4/2018	<0.003							
5/8/2018	<0.003							
6/19/2018					<0.003	<0.003	<0.003	
6/20/2018	<0.003	<0.003	<0.003					
6/21/2018				<0.003				
9/25/2018					<0.003	<0.003		
9/26/2018							<0.003	
9/27/2018	<0.003	<0.003	<0.003	<0.003				
11/6/2018	<0.003			<0.003		<0.003	<0.003	
11/7/2018		<0.003	<0.003		<0.003			
3/6/2019			<0.003					
8/26/2019						0.0004 (J)		
8/27/2019	<0.003				<0.003		<0.003	
8/28/2019		<0.003	0.00098 (J)	<0.003				
10/15/2019	<0.003				<0.003	<0.003		
10/16/2019		<0.003					<0.003	
10/17/2019			0.0009 (J)	<0.003				
3/27/2020					<0.003	<0.003	<0.003	
3/28/2020	<0.003	<0.003	0.0029 (J)	<0.003				
9/13/2021					<0.003	<0.003		
9/14/2021	<0.003	<0.003	<0.003	<0.003			<0.003	<0.003
3/1/2022		<0.003	<0.003					<0.003
3/2/2022				<0.003				
3/3/2022	<0.003				<0.003	<0.003	<0.003	
9/20/2022			<0.003					<0.003
9/21/2022	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003	
2/28/2023					<0.003		<0.003	
3/1/2023	<0.003							
3/2/2023		<0.003	<0.003	<0.003		<0.003		<0.003
9/12/2023		<0.003			<0.003	<0.003		
9/13/2023	<0.003			<0.003			<0.003	
9/14/2023			<0.003					<0.003
3/19/2024					<0.003		<0.003	
3/20/2024	<0.003					<0.003		
3/21/2024		<0.003	<0.003	<0.003				<0.003
9/10/2024	<0.003				<0.003		<0.003	
9/11/2024		<0.003		<0.003		<0.003		<0.003
9/12/2024			<0.003					
3/17/2025					<0.003	<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/18/2025							<0.003	<0.003
3/19/2025		0.00142 (J)	<0.003	<0.003				
3/20/2025	<0.003							
9/9/2025		0.00159 (J)	<0.003		<0.003	<0.003		
9/10/2025	<0.003							<0.003
9/11/2025				<0.003			<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.005				0.0018 (J)			
11/30/2016	0.0018 (J)				<0.005			
2/15/2017	0.0022 (J)				<0.005			
5/31/2017		<0.005	0.0259					
6/1/2017	0.0036 (J)				<0.005			
6/2/2017				0.0026 (J)				
8/2/2017		0.0011 (J)	0.0188	0.0047 (J)				
8/15/2017			0.0117					
8/16/2017	0.0038 (J)	<0.005						
8/17/2017				0.0028 (J)	<0.005			
4/4/2018			0.017	0.0029 (J)				
4/5/2018		0.00098 (J)						
5/8/2018			0.016	0.0048 (J)				
5/9/2018		0.0014 (J)						
6/19/2018	0.0069	0.0011 (J)	0.011	0.0019 (J)				
6/20/2018					0.00058 (J)			
9/25/2018			0.011					
9/26/2018	0.0081	<0.005		0.0023 (J)	<0.005			
11/6/2018			0.0043 (J)					
11/7/2018	0.0069	0.00059 (J)		<0.025	<0.005			
3/25/2019			0.0029 (J)					
8/27/2019	0.0079			0.0041 (J)	0.0019 (J)			
8/28/2019		<0.005	0.005 (J)					
10/15/2019				0.0038 (J)				
10/16/2019	0.01	0.003 (J)	0.0054		0.001 (J)			
11/7/2019						0.0067	0.0094 (J)	0.026
11/18/2019						0.012 (J)		
11/19/2019		0.00057 (J)					0.019 (J)	0.031 (J)
11/20/2019	0.0064							
12/4/2019							0.016	0.026
12/5/2019						0.0055		
12/17/2019							0.011 (J)	
12/18/2019						0.0031 (J)		0.019 (J)
1/8/2020							0.015 (J)	0.022 (J)
1/9/2020						0.0034 (J)		
1/21/2020						0.0031 (J)	0.015 (J)	0.024 (J)
2/4/2020						<0.005	0.0092 (J)	0.022 (J)
2/13/2020						0.0066	0.021 (J)	0.029
3/26/2020	0.0069							
3/27/2020		<0.005	0.0034 (J)	0.0018 (J)	<0.005	0.0043 (J)	0.017	0.027
10/12/2020			0.0047 (J)			<0.005		
10/13/2020	0.0061	<0.005		0.0042 (J)	<0.005		0.0089	0.018
3/2/2021				0.021 (J)				
3/3/2021	0.016 (J)	<0.005	0.011 (J)		0.0012 (J)	0.0014 (J)	0.0086 (J)	0.016 (J)
9/14/2021	0.0055	0.00067 (J)	0.011	0.0035 (J)	<0.005	0.0029 (J)	0.018 (J)	0.028
3/1/2022							0.0061 (J)	0.032
3/2/2022	0.0043	0.00077 (J)	0.0071	0.0032		0.0064 (J)		
3/3/2022					0.00024 (J)			
9/20/2022						0.0026 (J)	0.021	0.026
9/21/2022	0.0057 (J)	<0.005	0.013	0.0044 (J)	<0.005			
2/28/2023						0.00273 (J)	0.0173	0.0166
3/1/2023	0.00493 (J)	<0.005	0.00868 (J)		0.00223 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/2/2023				0.00756 (J)				
9/12/2023	0.00628			0.00677	<0.005			
9/13/2023			0.0217				0.0172	0.0182
9/14/2023		<0.005				0.00374 (J)		
3/19/2024		<0.005				0.00252 (J)	0.0173 (J)	
3/20/2024	0.0048 (J)		0.0158	0.00409 (J)				
3/21/2024					<0.005			0.0206 (J)
9/10/2024			0.0163					
9/11/2024	0.00586	<0.005		0.00538	<0.005	0.0021 (J)	0.0134	0.0197
3/18/2025	0.00514		0.00783					
3/19/2025						0.00245 (J)	0.0158	0.0183
3/20/2025		<0.005		0.00584	<0.005			
9/9/2025	0.00658			0.00381 (J)		0.00246 (J)	0.0262	0.0262
9/10/2025		<0.005	0.0206		<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.005	<0.025		
8/31/2016		<0.02	0.212	0.0066				
10/25/2016							<0.025	
11/30/2016		0.0132	0.129	0.0281	<0.005	<0.025	0.0072	
2/15/2017					<0.005	<0.025	0.0017 (J)	
2/16/2017		0.0372	0.257	0.0295				
5/31/2017					0.0007 (J)	0.0008 (J)	0.0018 (J)	
6/1/2017	0.004 (J)							
6/2/2017		0.0335	0.0559	0.0286				
8/2/2017	0.0028 (J)							
8/15/2017					0.0006 (J)		0.0015 (J)	
8/16/2017						0.0007 (J)		
8/17/2017	0.0021 (J)	0.0336	0.458	0.0211				
2/20/2018		0.0267	0.305	0.0271				
4/4/2018	0.0023 (J)							
4/30/2018		0.025 (J)	0.36	0.016 (J)				
5/8/2018	0.0048 (J)							
6/19/2018					0.001 (J)	0.0062 (J)	0.0029 (J)	
6/20/2018	0.0099	0.019	0.44					
6/21/2018				0.022 (J)				
7/24/2018		0.0079	0.45	0.014				
8/28/2018		0.0079	0.36	0.014				
9/25/2018					0.0011 (J)	0.0031 (J)		
9/26/2018							0.0015 (J)	
9/27/2018	0.01	0.0035 (J)	0.27	0.015				
10/30/2018		0.0029 (J)	0.42	0.0061				
11/6/2018	0.013			0.012		0.0014 (J)	<0.025	
11/7/2018		0.002 (J)	0.5		<0.005			
11/27/2018		0.0016 (J)	0.5	0.011				
12/18/2018		0.0043 (J)	0.6	0.018				
1/22/2019		0.0028 (J)	0.48	0.0097				
2/22/2019		0.00095 (J)	0.46	0.024 (J)				
3/6/2019			0.49					
3/26/2019		0.0018 (J)	0.3	0.0078				
6/4/2019		0.0019 (J)	0.41	0.017				
7/2/2019		0.0024 (J)	0.37	0.027				
7/29/2019		0.0021 (J)	0.45	0.0053				
8/26/2019		0.0021 (J)	0.46	0.0052		0.0022 (J)		
8/27/2019	0.0072				0.0011 (J)		0.0024 (J)	
8/28/2019		0.0019 (J)	0.5	0.011				
9/30/2019		0.002 (J)		0.0036 (J)				
10/2/2019			0.6					
10/15/2019	0.0038 (J)				0.0024 (J)	0.0067		
10/16/2019		0.0047 (J)					0.0043 (J)	
10/17/2019			0.34	0.0046 (J)				
11/21/2019							0.0031 (J)	
3/27/2020					<0.005	<0.025	<0.025	
3/28/2020	0.0034 (J)	<0.02	0.3	0.012				<0.005
6/16/2020			0.51					
10/12/2020					<0.005			
10/13/2020	0.0022 (J)					<0.025	<0.025	
10/14/2020			0.44 (D)	0.013		<0.025		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
10/15/2020		0.024						0.021
1/4/2021		0.0072						
3/2/2021					<0.005	<0.025		
3/3/2021							<0.025	
3/4/2021	0.0018 (J)	<0.02	0.35	0.015 (J)				0.017 (J)
9/13/2021					<0.005	<0.025		
9/14/2021	0.0047 (J)	0.02 (J)	0.51	0.013 (J)			<0.025	0.022
3/1/2022		0.011 (J)	0.24					0.015 (J)
3/2/2022				0.009 (J)				
3/3/2022	0.0041				<0.005	<0.025	<0.025	
6/28/2022			0.17					0.025
9/20/2022			0.18					0.021
9/21/2022	0.0017 (J)	0.0077		0.01	<0.005	<0.025	<0.025	
2/28/2023					<0.005		0.00226 (J)	
3/1/2023	0.00247 (J)							
3/2/2023		0.00578 (J)	0.0764	0.014		0.00201 (J)		0.0202
9/12/2023		0.0113			0.00234 (J)	0.00263 (J)		
9/13/2023	0.00601			0.0117			0.00283 (J)	
9/14/2023			0.0653					0.0254
3/19/2024					<0.005		<0.025	
3/20/2024	<0.005					<0.025		
3/21/2024		0.017	0.0675	0.0107 (J)				0.0163 (J)
9/10/2024	<0.005				<0.005		<0.025	
9/11/2024		0.0249		0.00833		0.00215 (J)		0.0121
9/12/2024			0.107					
3/17/2025					<0.005	<0.025		
3/18/2025							<0.025	0.0185
3/19/2025		0.0447	0.116	0.0106				
3/20/2025	<0.005							
9/9/2025		0.0629	0.0777		<0.005	<0.025		
9/10/2025	0.00382 (J)							0.0351
9/11/2025				0.0104 (J)			<0.025	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.0443				0.0973			
11/30/2016	0.0524				0.11			
2/15/2017	0.124				0.0945			
5/31/2017		0.127	0.0646					
6/1/2017	0.0757				0.121			
6/2/2017				0.0368 (J)				
8/2/2017		0.121	0.0533	0.0355				
8/15/2017			0.0247					
8/16/2017	0.0522	0.116						
8/17/2017				0.037	0.121			
4/4/2018			0.057	0.039				
4/5/2018		0.12						
5/8/2018			0.062	0.037				
5/9/2018		0.11						
6/19/2018	0.083	0.1	0.031	0.038				
6/20/2018					0.13			
9/25/2018			0.041					
9/26/2018	0.073	0.11		0.049	0.13			
11/6/2018			0.031					
11/7/2018	0.071	0.097		0.05	0.12			
3/25/2019			0.036					
8/27/2019	0.077			0.048	0.13			
8/28/2019		0.1	0.035					
10/15/2019				0.041				
10/16/2019	0.074	0.1	0.036		0.13			
11/7/2019						0.12	0.22	0.16
11/18/2019						0.11		
11/19/2019							0.13	0.14
12/4/2019							0.14	0.14
12/5/2019						0.12		
12/17/2019							0.14	
12/18/2019						0.11		0.15
1/8/2020							0.14	0.14
1/9/2020						0.096		
1/21/2020						0.098	0.14	0.14
2/4/2020						0.091	0.13	0.12
2/13/2020						0.098	0.13	0.12
3/26/2020	0.07							
3/27/2020		0.095	0.039	0.041	0.13	0.076	0.12	0.12
10/12/2020			0.039			0.091		
10/13/2020	0.06	0.086		0.024	0.11		0.12	0.12
3/2/2021				0.067				
3/3/2021	0.14	0.21	0.09		0.059	0.099	0.14	0.12
9/14/2021	0.065	0.082	0.07	0.05	0.16	0.098	0.13	0.11
3/1/2022							0.14	0.11
3/2/2022	0.064	0.08	0.05	0.04		0.091		
3/3/2022					0.13			
9/20/2022						0.11	0.12	0.12
9/21/2022	0.11	0.076	0.04	0.022	0.11			
2/28/2023						0.105 (J)	0.0869 (J)	0.0928 (J)
3/1/2023	0.097 (J)	0.0806 (J)	0.0405 (J)		0.109 (J)			
3/2/2023				0.0282 (J)				

Time Series

Constituent: Barium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/12/2023	0.128			0.0272	0.116			
9/13/2023			0.0794				0.097	0.101
9/14/2023		0.075				0.127		
3/19/2024		0.0787				0.123	0.0858	
3/20/2024	0.0969		0.05	0.0396				
3/21/2024					0.101			0.097
9/10/2024			0.0301					
9/11/2024	0.0868	0.0585		0.0243	0.0651	0.123	0.0837	0.0823
3/18/2025	0.0796		0.0313					
3/19/2025						0.123	0.0871	0.0852
3/20/2025		0.048		0.0374	0.0421			
9/9/2025	0.0742			0.0422		0.124	0.0906	0.0921
9/10/2025		0.0472	0.0702		0.0866			

Time Series

Constituent: Barium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.108	0.0131		
8/31/2016		0.0289	0.0498	0.0771				
10/25/2016							0.063	
11/30/2016		0.0168	0.0528	0.101	0.121	0.0105	0.0628	
2/15/2017					0.111	0.0786	0.0102	
2/16/2017		0.016	0.0555	0.0865				
5/31/2017					0.131	0.0199	0.061	
6/1/2017	0.0195							
6/2/2017		0.0393 (J)	0.0508	0.123				
8/2/2017	0.053							
8/15/2017					0.126		0.0579	
8/16/2017						0.033		
8/17/2017	0.0475	0.0188	0.0596	0.124				
4/4/2018	0.035							
5/8/2018	0.027							
6/19/2018					0.13	0.092	0.076	
6/20/2018	0.027	0.014	0.06					
6/21/2018				0.1				
9/25/2018					0.12	0.098		
9/26/2018							0.099	
9/27/2018	0.14	0.0097 (J)	0.06	0.12				
11/6/2018	0.31			0.12		0.1	0.052	
11/7/2018		0.0085 (J)	0.19		0.11			
3/6/2019			0.16					
8/26/2019						0.12		
8/27/2019	0.083				0.14		0.11	
8/28/2019		0.011	0.13	0.4				
10/15/2019	0.082				0.14	0.12		
10/16/2019		0.012					0.14	
10/17/2019			0.13	0.35				
3/27/2020					0.12	0.13	0.16	
3/28/2020	0.039	0.0041 (J)	0.12	0.11				
10/12/2020					0.1			
10/13/2020	0.055					0.14	0.14	
10/14/2020			0.14	0.19				
10/15/2020		0.45						0.071
1/4/2021		0.051						
3/2/2021					0.1	0.16		
3/3/2021							0.17	
3/4/2021	0.062	0.0082 (J)	0.14	0.2				0.096
9/13/2021					0.086	0.16		
9/14/2021	0.043	0.08	0.22	0.2			0.2	0.082
3/1/2022		0.035	0.084					0.074
3/2/2022				0.12				
3/3/2022	0.031				0.069	0.15	0.1	
9/20/2022			0.027					0.069
9/21/2022	0.029	0.014		0.12	0.068	0.059	0.089	
2/28/2023					0.071 (J)		0.0828 (J)	
3/1/2023	0.031 (J)							
3/2/2023		0.0133 (J)	0.0195 (J)	0.0982 (J)		0.0356 (J)		0.0601 (J)
9/12/2023		0.0257			0.074	0.0306		
9/13/2023	0.0358			0.0745			0.0706	

Time Series

Constituent: Barium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/14/2023			0.0456					0.0583
3/19/2024					0.0661		0.0776	
3/20/2024	0.0501					0.026		
3/21/2024		0.0287	0.0352	0.0493				0.0473
9/10/2024	0.063				0.0633		0.0724	
9/11/2024		0.023		0.0454		0.0279		0.0398
9/12/2024			0.0727					
3/17/2025					0.0658	0.109		
3/18/2025							0.0751	0.0462
3/19/2025		0.065	0.155	0.0492				
3/20/2025	0.0383							
9/9/2025		0.0834	0.338		0.0611	0.121		
9/10/2025	0.0285							0.0463
9/11/2025				0.0733			0.0682	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.0005				0.0001 (J)			
11/30/2016	<0.0005				0.0002 (J)			
2/15/2017	<0.0005				<0.0005			
5/31/2017		0.0002 (J)	7E-05 (J)					
6/1/2017	9E-05 (J)				0.0002 (J)			
6/2/2017				0.0001 (J)				
8/2/2017		0.0002 (J)	0.0001 (J)	<0.0005				
8/15/2017			9E-05 (J)					
8/16/2017	<0.0005	0.0002 (J)						
8/17/2017				0.0001 (J)	0.0002 (J)			
4/4/2018			<0.0005	<0.0005				
4/5/2018		<0.0005						
5/8/2018			0.0001 (J)	0.00031 (J)				
5/9/2018		0.00017 (J)						
6/19/2018	0.00011 (J)	0.00017 (J)	0.00011 (J)	0.00034 (J)				
6/20/2018					0.00024 (J)			
9/25/2018			0.0001 (J)					
9/26/2018	9.2E-05 (J)	0.00017 (J)		0.00039 (J)	0.00019 (J)			
11/6/2018			0.00012 (J)					
11/7/2018	0.0001 (J)	0.00015 (J)		0.00041 (J)	0.00019 (J)			
8/27/2019	9E-05 (J)			0.00042 (J)	0.00021 (J)			
8/28/2019		0.00011 (J)	8.4E-05 (J)					
10/15/2019				0.00034 (J)				
10/16/2019	<0.0005	0.00013 (J)	9E-05 (J)		0.00014 (J)			
11/7/2019						0.007	0.0068 (J)	0.021
11/18/2019						0.0063 (J)		
11/19/2019							0.014 (J)	0.015 (J)
12/4/2019							0.01	0.011
12/5/2019						0.0045		
12/17/2019							0.012	
12/18/2019						0.0048		0.012
1/8/2020							0.015 (J)	0.017
1/9/2020						0.0043		
1/21/2020						0.0041 (J)	0.012 (J)	0.015
2/4/2020						0.0049 (J)	0.015 (J)	0.017 (J)
2/13/2020						0.0043	0.013 (J)	0.015 (J)
3/26/2020	<0.0005							
3/27/2020		<0.0005	<0.0005	<0.0005	<0.0005	0.004	0.011	0.018
10/12/2020			<0.0005			0.0041		
10/13/2020	<0.0005	<0.0005		<0.0005	<0.0005		0.015	0.017
3/2/2021				<0.0005				
3/3/2021	<0.0005	<0.0005	<0.0005		<0.0005	0.003	0.015	0.014
9/14/2021	<0.0005	<0.0005	<0.0005	0.00034 (J)	0.00062	0.0031	0.0062	0.016
3/1/2022							0.0057	0.016
3/2/2022	9.6E-05 (J)	0.00015	0.00011	0.00032		0.0037		
3/3/2022					0.00023			
9/20/2022						0.003	0.017	0.02
9/21/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
2/28/2023						0.0029 (J)	0.0144	0.0155
3/1/2023	<0.0005	<0.0005	<0.0005		0.000223 (J)			
3/2/2023				0.000201 (J)				
9/12/2023	0.000253 (J)			<0.0005	0.000209 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/13/2023			<0.0005				0.00707	0.015
9/14/2023		<0.0005				0.00267		
3/19/2024		<0.0005				0.00243	0.0144	
3/20/2024	<0.0005		<0.0005	0.000215 (J)				
3/21/2024					<0.0005			0.0133
9/10/2024			<0.0005					
9/11/2024	0.0002 (J)	<0.0005		<0.0005	<0.0005	0.00225	0.0157	0.0127
3/18/2025	<0.0005		<0.0005					
3/19/2025						0.00248	0.0124	0.0122
3/20/2025		<0.0005		<0.0005	<0.0005			
9/9/2025	0.000216 (J)			0.000375 (J)		0.00266	0.0147	0.0159
9/10/2025		<0.0005	<0.0005		0.000203 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0003 (J)	<0.0025		
8/31/2016		<0.0025	<0.0025	<0.0005				
10/25/2016							0.0004 (J)	
11/30/2016		<0.0025	<0.0025	<0.0005	0.0004 (J)	<0.0025	0.0003 (J)	
2/15/2017					0.0004 (J)	<0.0025	<0.0025	
2/16/2017		<0.0025	<0.0025	<0.0005				
5/31/2017					0.0005 (J)	0.0001 (J)	0.0002 (J)	
6/1/2017	0.0001 (J)							
6/2/2017		<0.0025	<0.0025	<0.0005				
8/2/2017	0.0003 (J)							
8/15/2017					0.0005 (J)		0.0002 (J)	
8/16/2017						0.0002 (J)		
8/17/2017	0.0002 (J)	<0.0025	<0.0025	<0.0005				
4/4/2018	<0.0005							
5/8/2018	0.00025 (J)							
6/19/2018					0.00065 (J)	<0.0025	0.00032 (J)	
6/20/2018	0.00021 (J)	<0.0025	<0.0025					
6/21/2018				<0.0005				
9/25/2018					0.00066 (J)	5E-05 (J)		
9/26/2018							0.00024 (J)	
9/27/2018	0.00031 (J)	<0.0025	<0.0025	7.4E-05 (J)				
11/6/2018	0.00077 (J)			0.00012 (J)		9.7E-05 (J)	0.00026 (J)	
11/7/2018		5.4E-05 (J)	<0.0025		0.00058 (J)			
3/6/2019			<0.0025					
8/26/2019						0.0001 (J)		
8/27/2019	0.00032 (J)				0.0009 (J)		0.00018 (J)	
8/28/2019		<0.0025	<0.0025	<0.0005				
10/15/2019	0.00035 (J)				0.00079 (J)	<0.0025		
10/16/2019		<0.0025					0.00014 (J)	
10/17/2019			<0.0025	7.8E-05 (J)				
3/27/2020					<0.005	<0.0025	<0.0025	
3/28/2020	<0.0005	<0.0025	<0.0025	<0.0005				
10/12/2020					0.001 (J)			
10/13/2020	<0.0005					<0.0025	<0.0025	
10/14/2020			<0.0025	<0.0005				
10/15/2020		<0.0025						<0.0025
1/4/2021		<0.0025						
3/2/2021					<0.005	<0.0025		
3/3/2021							<0.0025	
3/4/2021	<0.0005	<0.0025	<0.0025	<0.0005				<0.0025
9/13/2021					0.0011	<0.0025		
9/14/2021	<0.0005	<0.0025	<0.0025	<0.0005			<0.0025	<0.0025
3/1/2022		<0.0025	<0.0025					<0.0025
3/2/2022				<0.0005				
3/3/2022	0.00025				0.0012 (J)	<0.0025	<0.0025	
9/20/2022			<0.0025					<0.0025
9/21/2022	<0.0005	<0.0025		<0.0005	0.0011 (J)	<0.0025	0.00029 (J)	
2/28/2023					0.00135 (J)		0.000279 (J)	
3/1/2023	<0.0005							
3/2/2023		<0.0025	<0.0025	<0.0005		<0.0025		<0.0025
9/12/2023		<0.0025			0.00137	<0.0025		
9/13/2023	<0.0005			<0.0005			0.000249 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/14/2023			<0.0025					<0.0025
3/19/2024					0.00145		<0.0025	
3/20/2024	0.000208 (J)					<0.0025		
3/21/2024		<0.0025	<0.0025	<0.0005				<0.0025
9/10/2024	0.000321 (J)				0.00137		<0.0025	
9/11/2024		<0.0025		<0.0005		<0.0025		<0.0025
9/12/2024			<0.0025					
3/17/2025					0.00148	<0.0025		
3/18/2025							0.000228 (J)	<0.0025
3/19/2025		<0.0025	<0.0025	<0.0005				
3/20/2025	0.000323 (J)							
9/9/2025		<0.0025	<0.0025		0.00155	<0.0025		
9/10/2025	<0.0005							<0.0025
9/11/2025				<0.0005			<0.0025	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.0325 (J)				0.0972 (J)			
11/30/2016	0.0334 (J)				0.0964			
2/15/2017	0.254				0.398			
5/31/2017		0.161	0.0521					
6/1/2017	0.0564				0.0776			
6/2/2017				0.0495				
8/2/2017		0.158	0.0392 (J)	0.0333 (J)				
8/15/2017			0.0448					
8/16/2017	0.0435	0.148						
8/17/2017				0.0593	0.0853			
4/4/2018			0.046	0.065				
4/5/2018		0.13						
5/8/2018			0.048	0.062				
5/9/2018		0.12						
6/19/2018	0.04 (J)	0.13	0.04	0.064				
6/20/2018					0.079			
9/25/2018			0.043					
9/26/2018	0.038 (J)	0.1		0.06	0.072			
11/6/2018			0.046					
11/7/2018	0.037 (J)	0.1		0.062 (J)	0.074			
3/25/2019	0.038 (J)	0.091	0.03 (J)	0.057	0.067			
10/15/2019				0.046				
10/16/2019	0.036 (J)	0.085	0.032 (J)		0.051			
11/7/2019						0.27	0.84	1.1
11/18/2019						0.29 (J)		
11/19/2019							0.83	1.3
12/4/2019							0.68	0.81
12/5/2019						0.23		
12/17/2019							0.57	
12/18/2019						0.23		0.77
1/8/2020							0.73	0.9
1/9/2020						0.2		
1/21/2020						0.24 (J)	0.75	0.94
2/4/2020						0.24 (J)	0.79 (J)	0.96 (J)
2/13/2020						0.22	0.74	0.88
3/26/2020	0.064 (J)							
3/27/2020		0.17 (J)	0.058 (J)	0.076 (J)	0.088 (J)	0.24 (J)	0.96	0.94
10/12/2020			<2.5			0.24 (J)		
10/13/2020	<2.5	<2.5		<2.5	<0.5		0.73	1.1
3/2/2021				<2.5				
3/3/2021	<2.5	<2.5	<2.5		<0.5	0.21 (J)	0.79 (J)	0.91 (J)
9/14/2021	0.079 (J)	0.093 (J)	0.06 (J)	0.068 (J)	0.071 (J)	0.2 (J)	1.2	0.91 (J)
3/1/2022							0.41 (J)	0.87 (J)
3/2/2022	0.048 (J)	0.086	0.038 (J)	0.054		0.23 (J)		
3/3/2022					0.057			
9/20/2022						0.18 (J)	0.77	0.9
9/21/2022	0.35 (J)	0.23 (J)	0.17 (J)	0.14 (J)	0.12 (J)			
2/28/2023						0.185	0.707	0.723
3/1/2023	0.091	0.115	0.0461		0.0669			
3/2/2023				0.0416				
9/12/2023	0.101			0.0393	0.0613			
9/13/2023			0.0783				1.2	1.02

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023		0.102				0.229		
3/19/2024		0.0924				0.185	0.704	
3/20/2024	0.0784		0.0443	0.0531				
3/21/2024					0.0603			0.864
9/10/2024			0.0483					
9/11/2024	0.0753	0.0875		0.035	0.0517	0.172	0.61	0.841
3/18/2025	0.0642		0.0522					
3/19/2025						0.175	0.684	0.751
3/20/2025		0.0922		0.0644	0.0594			
9/9/2025	0.0522			0.0726		0.19	0.838	0.885
9/10/2025		0.091	0.0854		0.054			

Time Series

Constituent: Boron (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					1.18	0.726		
8/31/2016		0.56	0.632	0.863				
10/25/2016							1.73	
11/30/2016		0.529	0.637	0.804	1.3	0.565	2.12	
2/15/2017					1.33	0.647	2.14	
2/16/2017		0.539	0.698	0.815				
5/31/2017					1.38	0.503	2.24	
6/1/2017	0.0608							
6/2/2017		0.555	0.674	0.891				
8/2/2017	0.137							
8/15/2017					1.14		2.1	
8/16/2017						0.539		
8/17/2017	0.128	0.516	0.7	0.922				
4/4/2018	0.1							
5/8/2018	0.074							
6/19/2018					1.2	0.76	1.7	
6/20/2018	0.045	0.51	0.69					
6/21/2018				0.99				
9/25/2018					1	0.61		
9/26/2018							1.3	
9/27/2018	0.06	0.47	0.62	0.88				
11/6/2018	0.06			1.1		0.75	1.8	
11/7/2018		0.51	0.86		1.4			
3/6/2019			1.5					
3/24/2019		0.44	1.1	1.2	1	0.95	1.4	
3/25/2019	0.058							
10/15/2019	0.068				1.1	1		
10/16/2019		0.49					1.6	
10/17/2019			1.3	1.1				
11/20/2019		0.53		1.3				
11/21/2019						1	1.5	
3/27/2020					1.5	1.3	1.8	
3/28/2020	0.067 (J)	0.28 (J)	0.95	0.79				
6/16/2020			2	1.7				2.1
10/12/2020					1.3			
10/13/2020	<0.5					1.1	1.8	
10/14/2020			1.5	1.8		1.2		
10/15/2020		0.61						2.1
1/4/2021		0.99						
3/2/2021					1.4 (J)	1.4 (J)		
3/3/2021							1.7 (J)	
3/4/2021	0.11 (J)	0.4 (J)	1.4 (J)	1.6 (J)				2.2 (J)
7/1/2021						0.26 (J)		
9/13/2021					1.4	1.2		
9/14/2021	0.07 (J)	0.95 (J)	1.1	1.5			2.1	2
3/1/2022		0.75 (J)	1.7					1.6 (J)
3/2/2022				1.3				
3/3/2022	0.053				1.2	0.89 (J)	1.4	
9/20/2022			1.1					1.7
9/21/2022	0.19 (J)	0.61		1.3	1.3	1	1.8	
2/28/2023					1.23		1.78	
3/1/2023	0.108							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/2/2023		0.511	0.961	1.25		0.738		1.82
9/12/2023		0.42			1.42	0.657		
9/13/2023	0.047			1.21			1.97	
9/14/2023			0.807					1.61
3/19/2024					1.33		1.73	
3/20/2024	0.116					0.474		
3/21/2024		0.491	0.772	1.05				1.84
9/10/2024	0.131				1.31		1.65	
9/11/2024		0.463		0.888		0.415		1.52
9/12/2024			0.745					
3/17/2025					1.38	0.341		
3/18/2025							1.64	1.44
3/19/2025		0.607	0.822	0.911				
3/20/2025	0.0876							
9/9/2025		0.669	0.799		1.32	0.776		
9/10/2025	0.0612							1.34
9/11/2025				0.906			2.21	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.001				<0.001			
11/30/2016	<0.001				<0.001			
2/15/2017	<0.001				<0.001			
5/31/2017		<0.001	<0.001					
6/1/2017	<0.001				<0.001			
6/2/2017				<0.001				
8/2/2017		<0.001	<0.001	<0.001				
8/15/2017			<0.001					
8/16/2017	<0.001	<0.001						
8/17/2017				<0.001	<0.001			
4/4/2018			<0.001	<0.001				
4/5/2018		<0.001						
5/8/2018			<0.001	<0.001				
5/9/2018		<0.001						
6/19/2018	<0.001	<0.001	<0.001	<0.001				
6/20/2018					<0.001			
9/25/2018			0.0002 (J)					
9/26/2018	<0.001	<0.001		<0.001	<0.001			
11/6/2018			<0.001					
11/7/2018	<0.001	<0.001		<0.001	<0.001			
8/27/2019	<0.001			<0.001	<0.001			
8/28/2019		<0.001	<0.001					
10/15/2019				<0.001				
10/16/2019	<0.001	<0.001	<0.001		<0.001			
11/7/2019						<0.001	<0.001	0.00034 (J)
11/18/2019						<0.001		
11/19/2019							<0.001	<0.001
12/4/2019							<0.001	<0.001
12/5/2019						<0.001		
12/17/2019							<0.001	
12/18/2019						<0.001		<0.001
1/8/2020							<0.001	<0.001
1/9/2020						<0.001		
1/21/2020						<0.001	<0.001	<0.001
2/4/2020						<0.001	<0.001	<0.001
2/13/2020						<0.001	<0.001	<0.001
3/26/2020	<0.001							
3/27/2020		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/14/2021	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/1/2022							<0.001	<0.001
3/2/2022	<0.001	<0.001	<0.001	<0.001		<0.001		
3/3/2022					<0.001			
9/20/2022						0.00078 (J)	0.0083 (O)	0.0043
9/21/2022	<0.001	<0.001	<0.001	<0.001	<0.001			
2/28/2023						<0.001	<0.001	<0.001
3/1/2023	<0.001	<0.001	<0.001		<0.001			
3/2/2023				<0.001				
9/12/2023	<0.001			<0.001	<0.001			
9/13/2023			<0.001				<0.001	<0.001
9/14/2023		<0.001				<0.001		
3/19/2024		<0.001				<0.001	<0.001	
3/20/2024	<0.001		<0.001	<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/21/2024					<0.001			<0.001
9/10/2024			<0.001					
9/11/2024	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
3/18/2025	<0.001		<0.001					
3/19/2025						<0.001	<0.001	<0.001
3/20/2025		<0.001		<0.001	<0.001			
9/9/2025	<0.001			<0.001		<0.001	<0.001	<0.001
9/10/2025		<0.001	<0.001		<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.001	<0.001		
8/31/2016		<0.001	<0.001	<0.001				
10/25/2016							<0.001	
11/30/2016		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2/15/2017					<0.001	<0.001	<0.001	
2/16/2017		<0.001	<0.001	<0.001				
5/31/2017					<0.001	<0.001	<0.001	
6/1/2017	<0.001							
6/2/2017		<0.001	<0.001	<0.001				
8/2/2017	<0.001							
8/15/2017					<0.001		<0.001	
8/16/2017						<0.001		
8/17/2017	<0.001	<0.001	<0.001	<0.001				
4/4/2018	<0.001							
5/8/2018	<0.001							
6/19/2018					<0.001	<0.001	<0.001	
6/20/2018	<0.001	<0.001	<0.001					
6/21/2018				<0.001				
9/25/2018					<0.001	<0.001		
9/26/2018							<0.001	
9/27/2018	<0.001	<0.001	<0.001	<0.001				
11/6/2018	<0.001			<0.001		<0.001	<0.001	
11/7/2018		<0.001	<0.001		<0.001			
3/6/2019			<0.001					
8/26/2019						<0.001		
8/27/2019	<0.001				<0.001		<0.001	
8/28/2019		<0.001	<0.001	<0.001				
10/15/2019	<0.001				<0.001	<0.001		
10/16/2019		<0.001					<0.001	
10/17/2019			<0.001	<0.001				
3/27/2020					<0.001	<0.001	<0.001	
3/28/2020	<0.001	<0.001	<0.001	<0.001				
9/13/2021					<0.001	<0.001		
9/14/2021	<0.001	<0.001	<0.001	<0.001			<0.001	<0.001
3/1/2022		<0.001	<0.001					<0.001
3/2/2022				<0.001				
3/3/2022	0.00043				<0.001	<0.001	<0.001	
9/20/2022			<0.001					<0.001
9/21/2022	<0.001	<0.001		0.0002 (J)	<0.001	<0.001	<0.001	
2/28/2023					<0.001		<0.001	
3/1/2023	<0.001							
3/2/2023		<0.001	<0.001	<0.001		<0.001		<0.001
9/12/2023		<0.001			<0.001	<0.001		
9/13/2023	<0.001			<0.001			<0.001	
9/14/2023			<0.001					<0.001
3/19/2024					<0.001		<0.001	
3/20/2024	<0.001					<0.001		
3/21/2024		<0.001	<0.001	<0.001				<0.001
9/10/2024	<0.001				<0.001		<0.001	
9/11/2024		<0.001		<0.001		<0.001		<0.001
9/12/2024			<0.001					
3/17/2025					<0.001	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/18/2025							<0.001	<0.001
3/19/2025		<0.001	<0.001	<0.001				
3/20/2025	<0.001							
9/9/2025		<0.001	<0.001		<0.001	<0.001		
9/10/2025	<0.001							<0.001
9/11/2025				<0.001			<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	7.3				4.02			
11/30/2016	10.8				4.87			
2/15/2017	14.3				6.61			
5/31/2017		5.9	18.6					
6/1/2017	12.7 (J)				6.42			
6/2/2017				2.77				
8/2/2017		4.69	18.5	1.27				
8/15/2017			4.09					
8/16/2017	8.7	5.25						
8/17/2017				5.53	5.62			
4/4/2018			<25	6.5				
4/5/2018		5						
5/8/2018			18.4 (J)	6.7				
5/9/2018		4.7						
6/19/2018	11.6 (J)	4.8	4.3	7.4				
6/20/2018					5.7			
6/28/2018	13							
9/25/2018			6.2					
9/26/2018	12.8 (J)	4.6		8.5 (J)	5.3			
11/6/2018			1.8					
11/7/2018	11.9	4.6		9.8	5.3			
3/25/2019	12.6 (J)	4.7	2.5	7.8	5.7			
10/15/2019				6.7				
10/16/2019	13.6	4.9	2.2		4.8			
11/7/2019						46.2	158	163
11/18/2019						41.8		
11/19/2019							152	169
12/4/2019							142	140
12/5/2019						40.5		
12/17/2019							136	
12/18/2019						42		145
1/8/2020							147	157
1/9/2020						37.1		
1/21/2020						40.1	167	152
2/4/2020						36.2	142	139
2/13/2020						38.9	148	146
3/26/2020	10.1							
3/27/2020		4.9	3.3	5.9	5.4	23.2	122	113
10/12/2020			2.8			19.1		
10/13/2020	9.8	3.8		0.83	5.7		125	128
3/2/2021				1.4				
3/3/2021	14	4	2.1		11.2	26	123	110
9/14/2021	9.6	4.2	14	6.7	6.5	18.8	93.6	61.1
3/1/2022							35.5	99.8
3/2/2022	8.2	4.1	6.8	7.2		22.3		
3/3/2022					5.4			
9/20/2022						20	150	100
9/21/2022	9.2	4.3	7.6	0.83	4.6			
2/28/2023						22.5	150	104
3/1/2023	7.87	5.26	6.53		4.74			
3/2/2023				1.41				
9/12/2023	10.1			0.953	4.48			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/13/2023			20.7				202	108
9/14/2023		6.64				21.1		
3/19/2024		4.73				19.7	138	
3/20/2024	11.3		9.1	4.88				
3/21/2024					5.32			102
9/10/2024			6.36					
9/11/2024	9.6	5.36		0.928	5.49	15.3	127	87.8
3/18/2025	9.39		3.66					
3/19/2025						17.9	139	92.4
3/20/2025		6.94		4.54	6.41			
9/9/2025	7.83			6.52		15.4	143	86.6
9/10/2025		6.85	20.7		3.98			

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					7.05	42.8		
8/31/2016		65	82.8	119				
10/25/2016							69.4	
11/30/2016		71.7	68.7	103	8.69	33.2	83.9	
2/15/2017					8.34	56.1	96.3	
2/16/2017		74	94.8	114				
5/31/2017					8.85	73.6	122	
6/1/2017	3.65							
6/2/2017		120	92.5	179				
8/2/2017	12.4							
8/15/2017					8.05		117	
8/16/2017						99.6		
8/17/2017	8.17	100	126	186				
4/4/2018	6.8							
5/8/2018	5.7							
6/19/2018					8.3	285	136	
6/20/2018	4.3	72.8	121					
6/21/2018				179				
6/28/2018					8.9	294	138	
9/25/2018					6.8	283		
9/26/2018							148	
9/27/2018	16.4 (J)	46.6	95.1	193				
11/6/2018	39.5			219		297	24.7	
11/7/2018		41.8	364		8.5			
3/6/2019			341					
3/24/2019		20.9 (J)	277	243	7.4	338	136	
3/25/2019	20.8 (J)							
10/15/2019	15.5				7.9	321		
10/16/2019		55.2					118	
10/17/2019			309	260				
11/20/2019		55.8		308				
11/21/2019						305	125	
3/27/2020					8.3	286	222	
3/28/2020	15.5	25.8	286	286				
4/23/2020			266					266
6/16/2020			234	254				245
10/12/2020					6.1			
10/13/2020	12.5					40.9	86.4	
10/14/2020			219 (D)	216		177		
10/15/2020		69.1						194
1/4/2021		107						
3/2/2021					6.5	205		
3/3/2021							143	
3/4/2021	15.1	23.4	233	244				257
7/1/2021						231		
9/13/2021					6	165		
9/14/2021	12.5	13.9	299	225			190	273
3/1/2022		48.4	131					303
3/2/2022				198				
3/3/2022	8				4.6	224	84	
6/28/2022			73.5					225
9/20/2022			47					240

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/21/2022	7.8	28		190	4.7	74	110	
2/28/2023					5.17		94.2	
3/1/2023	7.75							
3/2/2023		25.9	36.1	194		48		234
9/12/2023		61.5			4.98	55.3		
9/13/2023	4.93			136			84.6	
9/14/2023			83.1					158
3/19/2024					4.99		63.2	
3/20/2024	10.1					40.6		
3/21/2024		75.5	66.6	89.1				182
9/10/2024	9.06				4.67		57.2	
9/11/2024		78.5		72.5		41.3		162
9/12/2024			134					
3/17/2025					4.62	171		
3/18/2025							72.2	158
3/19/2025		196	198	98.9				
3/20/2025	6.11							
9/9/2025		245	240		4.43	178		
9/10/2025	4.36							163
9/11/2025				132			60.7	

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	9.7				26			
11/30/2016	19				27			
2/15/2017	21				30			
5/31/2017		39	98					
6/1/2017	12				27			
6/2/2017				11				
8/2/2017		42	57	3.2				
8/15/2017			15					
8/16/2017	14	41						
8/17/2017				12	32			
4/4/2018			69	13.4				
4/5/2018		40.2						
5/8/2018			72.3	13.2				
5/9/2018		40.6						
6/19/2018	24.4	37.7	17.3	13.7				
6/20/2018					30			
9/25/2018			31.3					
9/26/2018	23.4	33.4		18.5	28.4			
11/6/2018			9.8					
11/7/2018	21.8	30.7		20.2	25.1			
3/25/2019	19.4	33.5	12.9	19.7	21.8			
10/15/2019				17.1				
10/16/2019	21.4	33.1	12.2		20			
11/7/2019						2360	6170	7880
11/18/2019						6970		
11/19/2019							5650	8130
12/4/2019							6100	7410
12/5/2019						2130		
12/17/2019							5660	
12/18/2019						2090		7170
1/8/2020							5070	6480
1/9/2020						1750		
1/21/2020						1630	5010	6000
2/4/2020						1760	5030	5700
2/13/2020						1850	6140	7060
3/26/2020	23							
3/27/2020		32.9	14.5	14.1	23.6	1450	6870	7110
10/12/2020			13.9			1340		
10/13/2020	13.5	25.7		3.8	23.3		5260	5980
3/2/2021				4.2				
3/3/2021	13.6	20.5	9.4		27.6	1230	5170	5500
9/14/2021	16.7	21.8	62.8	13.6	30	1020	7250	5100
3/1/2022							1870	4900
3/2/2022	13.4	20.6	28.4	14.3		1420		
3/3/2022					26.5			
9/20/2022						1200	6200	5700
9/21/2022	17	23	32	3.3	17			
2/28/2023						1250	5760	7930
3/1/2023	14.9	21.8	17.7		14.2			
3/2/2023				4.88				
9/12/2023	10.7			3.49	13.3			
9/13/2023			98.5				8600	5250

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023		21.1				1190		
3/19/2024		20				1100	5460	
3/20/2024	10.8		32.1	13.5				
3/21/2024					11.5			4980
9/10/2024			11.2					
9/11/2024	9.34	16.4		3.34	9.65	856	4880	4420
3/18/2025	11.9		4.51					
3/19/2025						992	5330	4320
3/20/2025		13.1		10.6	8.86			
9/9/2025	14.4			14.2		835	5800	4040
9/10/2025		15.4	82.5		5.99			

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					800	450		
8/31/2016		1800	2200	2600				
10/25/2016							1300	
11/30/2016		1100	2100	2800	760	310	400	
2/15/2017					740	490	2000	
2/16/2017		2100	2500	3100				
5/31/2017					740	820	2500	
6/1/2017	22							
6/2/2017		3100	2500	4600				
8/2/2017	230							
8/15/2017					750		2500	
8/16/2017						1500		
8/17/2017	210	2600	2700	4600				
4/4/2018	156							
5/8/2018	140							
6/19/2018					760	5180	3050	
6/20/2018	27.5	1800	3100					
6/21/2018				3920				
9/25/2018					752	7220		
9/26/2018							3965 (D)	
9/27/2018	101	1300	2510	5660				
11/6/2018	107			6520		6020	2230	
11/7/2018		1180	8860		665			
3/6/2019			11700					
3/24/2019		717	6470	8720	744	7400	3960	
3/25/2019	78.5							
10/15/2019	46				744	9050		
10/16/2019		1390					4260	
10/17/2019			9930	8210				
11/20/2019		1480		9810				
11/21/2019						8330	3890	
3/27/2020					675	7680	4770	
3/28/2020	71.4	693	9190	9070				
4/23/2020			7390					7500
6/16/2020			7760	7580				7780
10/12/2020					552			
10/13/2020	54.4					6230	3980	
10/14/2020			6780 (D)	8170		6230		
10/15/2020		1660						<1
1/4/2021		2460						
3/2/2021					459	5680		
3/3/2021							3920	
3/4/2021	69.6	652	6310	7540				8280
7/1/2021						5960		
9/13/2021					433	5010		
9/14/2021	28.5	3940	5360	6300			4090	7610
3/1/2022		1680	4150					6750
3/2/2022				5630				
3/3/2022	12.2				394	5040	3540	
6/28/2022			3520					9640
9/20/2022			2800					7400
9/21/2022	47	1100		6400	400	3300	3300	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
2/28/2023					518		2770	
3/1/2023	45.6							
3/2/2023		853	1470	5450		1810		6860
9/12/2023		1330			326	1180		
9/13/2023	10.4			3690			2660	
9/14/2023			2220					5380
3/19/2024					361		3130	
3/20/2024	82.3					1390		
3/21/2024		1830	2120	3240				5440
9/10/2024	100				297		3080	
9/11/2024		1800		2440		1320		4570
9/12/2024			3240					
3/17/2025					311	3240		
3/18/2025							2900	4080
3/19/2025		3790	4590	2720				
3/20/2025	45.3							
9/9/2025		4910	5860		281	4230		
9/10/2025	21.5							4150
9/11/2025				3210			2550	

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.01				<0.01			
11/30/2016	<0.01				0.001 (J)			
2/15/2017	<0.01				<0.01			
5/31/2017		<0.01	<0.01					
6/1/2017	<0.01				0.0004 (J)			
6/2/2017				0.0019 (J)				
8/2/2017		<0.01	<0.01	0.0017 (J)				
8/15/2017			0.0006 (J)					
8/16/2017	<0.01	<0.01						
8/17/2017				0.0027 (J)	0.0005 (J)			
4/4/2018			<0.01	<0.01				
4/5/2018		<0.01						
5/8/2018			<0.01	0.0029 (J)				
5/9/2018		<0.01						
6/19/2018	<0.01	<0.01	<0.01	0.002 (J)				
6/20/2018					<0.01			
9/25/2018			<0.01					
9/26/2018	<0.01	<0.01		0.003 (J)	<0.01			
11/6/2018			<0.01					
11/7/2018	<0.01	<0.01		<0.01	<0.01			
3/25/2019			<0.01					
8/27/2019	0.00079 (J)			0.0026 (J)	0.00043 (J)			
8/28/2019		0.0035 (J)	0.00053 (J)					
10/15/2019				0.0026 (J)				
10/16/2019	<0.01	<0.01	0.00072 (J)		<0.01			
11/7/2019						0.0038 (J)	0.005 (J)	0.0083 (J)
11/18/2019						0.0046 (J)		
11/19/2019							0.0059 (J)	0.0096 (J)
12/4/2019							0.0073 (J)	0.0099 (J)
12/5/2019						0.0046 (J)		
12/17/2019							0.009 (J)	
12/18/2019						0.0045 (J)		0.011 (J)
1/8/2020							0.0077 (J)	0.0092 (J)
1/9/2020						0.004 (J)		
1/21/2020						0.0036 (J)	0.007 (J)	0.009 (J)
2/4/2020						<0.01	0.0057 (J)	0.0078 (J)
2/13/2020						0.0036 (J)	0.0063 (J)	0.0091 (J)
3/26/2020	<0.01							
3/27/2020		<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	0.0095 (J)
9/14/2021	<0.01	0.0056	<0.01	0.0027 (J)	<0.01	<0.01	<0.05	<0.05
3/1/2022							<0.05	<0.05
3/2/2022	<0.01	<0.01	0.00094 (J)	0.0029		<0.01		
3/3/2022					<0.01			
9/20/2022						0.0021 (J)	<0.05	<0.05
9/21/2022	0.0014 (J)	<0.01	0.0015 (J)	0.002 (J)	0.0015 (J)			
2/28/2023						<0.01	0.00575 (J)	0.00573 (J)
3/1/2023	<0.01	<0.01	<0.01		<0.01			
3/2/2023				<0.01				
9/12/2023	<0.01			<0.01	<0.01			
9/13/2023			<0.01				0.00386 (J)	0.00673 (J)
9/14/2023		<0.01				<0.01		
3/19/2024		<0.01				<0.01	<0.05	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/20/2024	<0.01		<0.01	<0.01				
3/21/2024					<0.01			<0.05
9/10/2024			<0.01					
9/11/2024	<0.01	<0.01		<0.01	<0.01	<0.01	0.00601 (J)	0.00551 (J)
3/18/2025	<0.01		<0.01					
3/19/2025						<0.01	0.00559 (J)	0.00559 (J)
3/20/2025		<0.01		<0.01	<0.01			
9/9/2025	<0.01			<0.01		<0.01	0.00562 (J)	0.00615 (J)
9/10/2025		<0.01	<0.01		<0.01			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0054 (J)	0.0026 (J)		
8/31/2016		0.0013 (J)	0.001 (J)	0.0022 (J)				
10/25/2016							0.016	
11/30/2016		0.0012 (J)	<0.01	<0.01	0.0073 (J)	0.0016 (J)	0.0151 (J)	
2/15/2017					0.0045 (J)	0.0018 (J)	0.0137	
2/16/2017		0.0012 (J)	0.0011 (J)	0.0028 (J)				
5/31/2017					0.0052 (J)	0.0019 (J)	0.0109	
6/1/2017	0.0008 (J)							
6/2/2017		<0.01	<0.01	0.0023 (J)				
8/2/2017	0.0012 (J)							
8/15/2017					0.005 (J)		0.0117	
8/16/2017						0.0019 (J)		
8/17/2017	0.0013 (J)	0.0007 (J)	0.0007 (J)	0.0022 (J)				
4/4/2018	<0.01							
5/8/2018	<0.01							
6/19/2018					0.0047 (J)	<0.01	0.013 (J)	
6/20/2018	<0.01	<0.01	<0.01					
6/21/2018				<0.01				
9/25/2018					<0.02	<0.01		
9/26/2018							0.0092 (J)	
9/27/2018	<0.01	<0.01	<0.01	0.0024 (J)				
11/6/2018	0.0017 (J)			0.002 (J)		<0.01	<0.02	
11/7/2018		<0.01	<0.01		<0.02			
3/6/2019			<0.01					
8/26/2019						0.00071 (J)		
8/27/2019	0.0018 (J)				0.0056 (J)		0.0066 (J)	
8/28/2019		0.00047 (J)	0.00085 (J)	0.0024 (J)				
10/15/2019	0.0012 (J)				0.0057 (J)	0.00076 (J)		
10/16/2019		0.00057 (J)					0.0063 (J)	
10/17/2019			0.0015 (J)	0.0019 (J)				
3/27/2020					<0.02	<0.01	<0.02	
3/28/2020	<0.01	<0.01	<0.01	<0.01				
9/13/2021					<0.02	<0.01		
9/14/2021	<0.01	<0.01	<0.01	<0.01			<0.02	<0.01
3/1/2022		<0.01	<0.01					<0.01
3/2/2022				<0.01				
3/3/2022	0.00085 (J)				<0.02	<0.01	<0.02	
9/20/2022			<0.01					<0.01
9/21/2022	0.0015 (J)	0.0016 (J)		0.0027 (J)	0.0077 (J)	0.0015 (J)	0.0063 (J)	
2/28/2023					0.00663 (J)		0.00623 (J)	
3/1/2023	<0.01							
3/2/2023		<0.01	<0.01	<0.01		<0.01		<0.01
9/12/2023		<0.01			0.00703 (J)	<0.01		
9/13/2023	<0.01			<0.01			0.00608 (J)	
9/14/2023			<0.01					<0.01
3/19/2024					0.00689 (J)		0.00466 (J)	
3/20/2024	<0.01					<0.01		
3/21/2024		<0.01	<0.01	<0.01				<0.01
9/10/2024	<0.01				0.00672 (J)		0.00441 (J)	
9/11/2024		<0.01		<0.01		<0.01		<0.01
9/12/2024			<0.01					
3/17/2025					0.00739 (J)	<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/18/2025							0.00481 (J)	<0.01
3/19/2025		<0.01	<0.01	<0.01				
3/20/2025	<0.01							
9/9/2025		<0.01	<0.01		0.00736 (J)	<0.01		
9/10/2025	0.00448 (J)							<0.01
9/11/2025				<0.01			0.00513 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.001				<0.001			
11/30/2016	<0.001				<0.001			
2/15/2017	<0.001				<0.001			
5/31/2017		0.0005 (J)	<0.001					
6/1/2017	<0.001				<0.001			
6/2/2017				<0.001				
8/2/2017		0.0005 (J)	0.0006 (J)	<0.001				
8/15/2017			0.0004 (J)					
8/16/2017	<0.001	0.0005 (J)						
8/17/2017				<0.001	0.0004 (J)			
4/4/2018			<0.001	<0.001				
4/5/2018		<0.001						
5/8/2018			<0.001	<0.001				
5/9/2018		<0.001						
6/19/2018	<0.001	<0.001	<0.001	<0.001				
6/20/2018					<0.001			
9/25/2018			<0.001					
9/26/2018	<0.001	<0.001		<0.001	<0.001			
11/6/2018			<0.001					
11/7/2018	<0.001	<0.001		<0.001	<0.001			
8/27/2019	<0.001			<0.001	0.0003 (J)			
8/28/2019		0.00042 (J)	<0.001					
10/15/2019				<0.001				
10/16/2019	<0.001	0.00037 (J)	<0.001		<0.001			
11/7/2019						<0.001	<0.001	0.026
11/18/2019						<0.001		
11/19/2019							<0.001	0.022 (J)
12/4/2019							<0.001	0.022
12/5/2019						<0.001		
12/17/2019							<0.001	
12/18/2019						<0.001		0.031
1/8/2020							<0.001	0.035
1/9/2020						<0.001		
1/21/2020						<0.001	<0.001	0.031
2/4/2020						<0.001	<0.001	0.031 (J)
2/13/2020						<0.001	<0.001	0.031
3/26/2020	<0.001							
3/27/2020		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.036
10/12/2020			<0.001			<0.001		
10/13/2020	<0.001	<0.001		<0.001	<0.001		<0.001	0.032
3/2/2021				<0.001				
3/3/2021	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	0.033
9/14/2021	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
3/1/2022							<0.001	0.031
3/2/2022	<0.001	0.00035 (J)	0.00029 (J)	7.7E-05 (J)		<0.001		
3/3/2022					0.00035 (J)			
9/20/2022						<0.001	<0.001	0.03
9/21/2022	<0.001	0.00032 (J)	<0.001	<0.001	0.00024 (J)			
2/28/2023						<0.001	<0.001	0.0252 (J)
3/1/2023	<0.001	0.000372 (J)	<0.001		<0.001			
3/2/2023				<0.001				
9/12/2023	<0.001			<0.001	0.000301 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/13/2023			<0.001				<0.001	0.0241
9/14/2023		<0.001				<0.001		
3/19/2024		0.000301 (J)				<0.001	<0.001	
3/20/2024	<0.001		<0.001	<0.001				
3/21/2024					<0.001			0.0222
9/10/2024			<0.001					
9/11/2024	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	0.0181
3/18/2025	<0.001		<0.001					
3/19/2025						<0.001	<0.001	0.0204
3/20/2025		<0.001		<0.001	<0.001			
9/9/2025	<0.001			<0.001		<0.001	<0.001	0.0234
9/10/2025		<0.001	<0.001		<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.001	0.0006 (J)		
8/31/2016		<0.001	<0.001	<0.001				
10/25/2016							<0.001	
11/30/2016		<0.001	0.0009 (J)	0.0011 (J)	<0.001	<0.001	0.0007 (J)	
2/15/2017					<0.001	<0.001	<0.001	
2/16/2017		<0.001	<0.001	<0.001				
5/31/2017					0.0005 (J)	<0.001	<0.001	
6/1/2017	<0.001							
6/2/2017		<0.001	<0.001	<0.001				
8/2/2017	<0.001							
8/15/2017					0.0005 (J)		0.0004 (J)	
8/16/2017						<0.001		
8/17/2017	<0.001	<0.001	0.0003 (J)	<0.001				
4/4/2018	<0.001							
5/8/2018	<0.001							
6/19/2018					0.00053 (J)	<0.001	<0.001	
6/20/2018	<0.001	<0.001	<0.001					
6/21/2018				<0.001				
9/25/2018					<0.001	<0.001		
9/26/2018							<0.001	
9/27/2018	<0.001	<0.001	<0.001	<0.001				
11/6/2018	0.0048 (J)			<0.001		<0.001	<0.001	
11/7/2018		<0.001	<0.001		<0.001			
3/6/2019			<0.001					
8/26/2019						<0.001		
8/27/2019	0.0078				0.0007 (J)		<0.001	
8/28/2019		<0.001	<0.001	<0.001				
10/15/2019	0.0085				0.00054 (J)	<0.001		
10/16/2019		<0.001					<0.001	
10/17/2019			<0.001	<0.001				
11/20/2019	0.009							
3/27/2020					<0.001	<0.001	<0.001	
3/28/2020	0.0041 (J)	<0.001	<0.001	<0.001				
10/12/2020					<0.001			
10/13/2020	0.0063					<0.001	<0.001	
10/14/2020			<0.001	<0.001				
10/15/2020		0.0019 (J)						<0.001
1/4/2021		<0.001						
3/2/2021					<0.001	<0.001		
3/3/2021							<0.001	
3/4/2021	0.006	<0.001	<0.001	<0.001				<0.001
9/13/2021					<0.001	<0.001		
9/14/2021	0.0054	<0.001	<0.001	<0.001			<0.001	<0.001
3/1/2022		<0.001	<0.001					<0.001
3/2/2022				<0.001				
3/3/2022	0.0049				<0.001	<0.001	<0.001	
9/20/2022			<0.001					<0.001
9/21/2022	0.0025	0.00026 (J)		0.00031 (J)	0.00042 (J)	<0.001	0.00025 (J)	
2/28/2023					0.00052 (J)		<0.001	
3/1/2023	0.00256 (J)							
3/2/2023		<0.001	<0.001	<0.001		<0.001		<0.001
9/12/2023		<0.001			0.000429 (J)	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/13/2023	0.00341			<0.001			<0.001	
9/14/2023			<0.001					<0.001
3/19/2024					0.000452 (J)		<0.001	
3/20/2024	0.00291					<0.001		
3/21/2024		<0.001	<0.001	<0.001				<0.001
9/10/2024	0.00238				0.000453 (J)		<0.001	
9/11/2024		<0.001		<0.001		<0.001		<0.001
9/12/2024			<0.001					
3/17/2025					0.000481 (J)	<0.001		
3/18/2025							<0.001	<0.001
3/19/2025		<0.001	<0.001	<0.001				
3/20/2025	0.00268							
9/9/2025		<0.001	<0.001		0.000456 (J)	<0.001		
9/10/2025	0.00158							<0.001
9/11/2025				<0.001			<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.929				0.977			
11/30/2016	5.64				0.994			
2/15/2017	1.41				1.65			
5/31/2017		1.17	1.2					
6/1/2017	1.51				1.22			
6/2/2017				1.47				
8/2/2017		0.704 (U)	1.26	1.99				
8/15/2017			0.511 (U)					
8/16/2017	1.01 (U)	1.11 (U)						
8/17/2017				2.03	1.71			
4/4/2018			1.04	1.96				
4/5/2018		0.868						
5/8/2018			1.95	1.69				
5/9/2018		0.888						
6/19/2018	1.23	0.483 (U)	0.785 (U)	1.83				
6/20/2018					1.78			
9/25/2018			1.15					
9/26/2018	0.72 (U)	0.73 (U)		0.637 (U)	1.56			
11/6/2018			1.1					
11/7/2018	0.616 (U)	0.429 (U)		0.894 (U)	0.651 (U)			
8/27/2019	1.2 (U)			2.33	1.03 (U)			
8/28/2019		0.679 (U)	0.434 (U)					
10/15/2019				0.979 (U)				
10/16/2019	1.4 (U)	0.422 (U)	0.923 (U)		1.86			
11/7/2019						14.8	17.7	38.2
11/18/2019						13.9		
11/19/2019							18.9	43.1
12/4/2019							18.6	45.1
12/5/2019						14.2		
12/17/2019							21.8	
12/18/2019						17		55.8
1/8/2020							16.9	46.5
1/9/2020						12.3		
1/21/2020						11.7	15.6	37.7
2/4/2020						12.7	22.4	47.9
2/13/2020						18.2	31.1	76.3 (O)
3/26/2020	1.15 (U)							
3/27/2020		0.838 (U)	0.609 (U)	1.84	1.51	10.2	22.8	47.2
10/12/2020			2.7			8.83		
10/13/2020	0.855 (U)	0.56 (U)		3.32	1.71		14.1	30.3
4/6/2021	1.01 (U)	0.474 (U)	1.88	1.74	1.81	9.57	20.4	31.5
9/14/2021	1.06 (U)	0.878 (U)	1.37 (U)	1.15 (U)	2.02	8.31	26.2	34.9
3/1/2022							9.65	27.5
3/2/2022	0.379 (U)	0.476 (U)	0.313 (U)	1.48		9.23		
3/3/2022					1.1 (U)			
9/20/2022						9.35	18.2	30.1
9/21/2022	0.863	0.789	0.797	1.23	1.02			
2/28/2023						7.34	12.4	22.6
3/1/2023	1.18 (U)	0.439 (U)	2.35		2.3			
3/2/2023				10.1				
9/12/2023	3.54			3.88	3.18			
9/13/2023			3.14				27.3	34.9

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023		3.14				4.91		
3/19/2024		2.04				6.07	11.8	
3/20/2024	2.7		3.03	3.27				
3/21/2024					1.25 (U)			23.8
9/10/2024			2.49					
9/11/2024	2.61	6.28		4.32	1.89	9.3	15.5	29.4
3/18/2025	1.25 (U)		1.58 (U)					
3/19/2025						7.26	19.2	26.7
3/20/2025		1.16 (U)		1.32 (U)	1.52			
9/9/2025	2.27			2.57		7.52	20.7	30.8
9/10/2025		0.597 (U)	2.95		3.03			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					1.4	1.31		
8/31/2016		2.39	2.47	5.4				
10/25/2016							2.22	
11/30/2016		1.66	1.6	3.13	4.37	0.438	2.01	
2/15/2017					2.21	0.3	1.56	
2/16/2017		2.71	1.83	3.09				
5/31/2017					2.62	1.77	1.92	
6/1/2017	1.9							
6/2/2017		1.99	2.45	7.56				
8/2/2017	5.01							
8/15/2017					2.69		2.47	
8/16/2017						2.26		
8/17/2017	5.35	1.87	3.33	6.38				
4/4/2018	5.05							
5/8/2018	3.25							
6/19/2018					2.96	5.39	2.82	
6/20/2018	3.53	1.95	2.84					
6/21/2018				5.24				
9/25/2018					2.23	6.22		
9/26/2018							3.15 (D)	
9/27/2018	7.07	0.629 (U)	1.94	6.11				
11/6/2018	11			6.1		5.38	2.95	
11/7/2018		1.41 (U)	8.58		2.14			
8/26/2019						7.68		
8/27/2019	4.4				2.91		5.82	
8/28/2019		1.67	6.86	8.73				
10/15/2019	4.92				3.28	8.7		
10/16/2019		1.92					7.5	
10/17/2019			7.85	7.97				
11/20/2019				9.8				
11/21/2019						7.34	8.89	
3/27/2020					2.33	9.63	9.54	
3/28/2020	4.16	1.44 (U)	11	11.7				
10/12/2020					2.66			
10/13/2020	3.71					7.43	7.75	
10/14/2020			8.97	13.1				
10/15/2020		2.56						6.65
1/4/2021		5.84						
4/6/2021	2.83	1.43 (U)	7.89	9.66	2.2	7.02	7.8	7.33
9/13/2021					2.54	8.38		
9/14/2021	2.69	7.15	8.11	10.3			8.82	6.97
3/1/2022		8.16 (U)	5.83					9.03
3/2/2022				5.66				
3/3/2022	2.51				3.56 (U)	8	9.1	
9/20/2022			1.51					8.2
9/21/2022	1.67	1.42		8.23	1.54	4.52	5.26	
2/28/2023					2.29		5.48	
3/1/2023	5.05							
3/2/2023		2.22	1.79	4.5		8.08		9.42
9/12/2023		4.42			3.43	5.46		
9/13/2023	2.05			10.3			4.44	
9/14/2023			3.61					11.7

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/19/2024					2.79		5.64	
3/20/2024	2.61					2.14		
3/21/2024		2.48	2.73	6.37				4.89
9/10/2024	4.33				4.8		4.29	
9/11/2024		2.55		5.35		3.4		7.95
9/12/2024			5.25					
3/17/2025					3.37	6.6		
3/18/2025							6.41	4.64
3/19/2025		5.29	8.33	4.55				
3/20/2025	3.92							
9/9/2025		7.73	11.8		2.52	8.36		
9/10/2025	2.28							6.24
9/11/2025				6.67			5.59	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.03 (J)				0.04 (J)			
11/30/2016	0.04 (J)				0.18 (J)			
2/15/2017	0.007 (J)				0.02 (J)			
5/31/2017		0.01 (J)	0.85					
6/1/2017	<0.1				0.005 (J)			
6/2/2017				<0.1				
8/2/2017		0.14 (J)	0.69	0.05 (J)				
8/15/2017			0.29 (J)					
8/16/2017	0.03 (J)	0.13 (J)						
8/17/2017				<0.1	0.04 (J)			
4/4/2018			0.32	<0.1				
4/5/2018		<0.1						
5/8/2018			0.63	<0.1				
5/9/2018		<0.1						
6/19/2018	<0.1	0.065 (J)	0.17 (J)	0.057 (J)				
6/20/2018					0.038 (J)			
9/25/2018			0.15 (J)					
9/26/2018	0.12 (J)	<0.1		<0.1	<0.1			
11/6/2018			<0.1					
11/7/2018	<0.1	<0.1		<0.1	<0.1			
3/25/2019	0.038 (J)	0.039 (J)	0.12 (J)	0.036 (J)	0.041 (J)			
8/27/2019	<0.1			<0.1	<0.1			
8/28/2019		<0.1	0.068 (J)					
10/15/2019				0.14 (J)				
10/16/2019	0.046 (J)	0.044 (J)	0.1 (J)		0.044 (J)			
11/7/2019						0.49	<0.1	1.4
11/18/2019						0.52		
11/19/2019							0.033 (J)	1.2
12/4/2019							0.22 (J)	1.4
12/5/2019						0.5		
12/17/2019							<0.1	
12/18/2019						0.33		1.5
1/8/2020							<0.1	<0.1
1/9/2020						0.12 (J)		
1/21/2020						0.13 (J)	0.11 (J)	0.53
2/4/2020						0.18 (J)	<0.1	<0.1
2/13/2020						0.077 (J)	<0.1	<0.1
3/26/2020	<0.1							
3/27/2020		<0.1	0.066 (J)	<0.1	<0.1	0.06 (J)	<0.1	<0.1
10/12/2020			<0.1			0.34		
10/13/2020	<0.1	<0.1		<0.1	<0.1		<0.1	<0.1
3/2/2021				<0.1				
3/3/2021	<0.1	<0.1	0.082 (J)		<0.1	0.32	<0.1	<0.1
9/14/2021	<0.1	<0.1	0.18	<0.1	<0.1	<0.1	<0.1	<0.1
3/1/2022							<0.1	<0.1
3/2/2022	<0.1	<0.1	0.097 (J)	<0.1		<0.1		
3/3/2022					<0.1			
9/20/2022						0.61 (J)	<0.1	4.3 (JO)
9/21/2022	<0.1	<0.1	0.11	<0.1	<0.1			
2/28/2023						0.407 (J)	0.38 (J)	3.32
3/1/2023	<0.1	<0.1	0.101		0.0397 (J)			
3/2/2023				0.0397 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/12/2023	<0.1			<0.1	<0.1			
9/13/2023			0.362				<0.1	3.98
9/14/2023		<0.1				0.251 (J)		
3/19/2024		<0.1				0.702	1.2 (J)	
3/20/2024	0.0748 (J)		0.206	<0.1				
3/21/2024					0.0585 (J)			3.79
9/10/2024			0.202					
9/11/2024	0.0669 (J)	<0.1		<0.1	<0.1	0.267	0.743 (J)	2.83
3/18/2025	0.0534 (J)		0.0773 (J)					
3/19/2025						0.564	0.831 (J)	2.94
3/20/2025		<0.1		<0.1	<0.1			
9/9/2025	0.0772 (J)			0.0538 (J)		0.369 (J)	0.778	3.2
9/10/2025		0.0373 (J)	0.359		0.0442 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					1.5	0.5		
8/31/2016		0.93	0.41	0.92				
10/25/2016							1.1	
11/30/2016		0.93	0.61	0.99	1.4	0.49	1.3	
2/15/2017					1.3	0.58	1.3	
2/16/2017		0.6	0.3 (J)	0.54				
5/31/2017					1.2	0.56	1.3	
6/1/2017	<0.1							
6/2/2017		0.34	0.19 (J)	0.42				
8/2/2017	0.27 (J)							
8/15/2017					1.2		1.2	
8/16/2017						0.45		
8/17/2017	0.18 (J)	0.52	0.26 (J)	0.27 (J)				
4/4/2018	<0.1							
5/8/2018	0.56							
6/19/2018					0.91	<0.1	0.6	
6/20/2018	0.033 (J)	0.5	0.22 (J)					
6/21/2018				0.28 (J)				
9/25/2018					1.1	<0.1		
9/26/2018							0.44 (D)	
9/27/2018	0.12 (J)	0.32	0.068 (J)	0.32				
11/6/2018	<0.1			0.086 (J)		0.084 (J)	0.4	
11/7/2018		0.35	10.3 (O)		<0.1			
3/6/2019			<0.1					
3/24/2019		0.32	0.19 (J)	0.14 (J)	0.99	0.14 (J)	0.31	
3/25/2019	0.055 (J)							
8/26/2019						<0.1		
8/27/2019	<0.1				1.1		<0.1	
8/28/2019		0.36	<0.1	<0.1				
10/15/2019	0.095 (J)				1	<0.1		
10/16/2019		0.41					0.083 (J)	
10/17/2019			<0.1	<0.1				
11/20/2019		0.34		<0.1				
11/21/2019						<0.1	<0.1	
3/27/2020					1.1	<0.1	<0.1	
3/28/2020	<0.1	0.34	<0.1	<0.1				
10/12/2020					1.2			
10/13/2020	<0.1					<0.1	<0.1	
10/14/2020			<0.1	<0.1				
10/15/2020		0.22						0.11
1/4/2021		<0.1						
3/2/2021					1	<0.1		
3/3/2021							0.58 (J)	
3/4/2021	<0.1	0.45	<0.1	<0.1				<0.1
7/1/2021						<0.1		
9/13/2021					1.4	<0.1		
9/14/2021	<0.1	<0.1	<0.1	<0.1			<0.1	<0.1
3/1/2022		<0.1	<0.1					<0.1
3/2/2022				<0.1				
3/3/2022	<0.1				0.95	<0.1	<0.1	
9/20/2022			1.1 (J)					<0.1
9/21/2022	<0.1	0.48		0.18	1.3	0.12	0.78	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
2/28/2023					1.21		0.815	
3/1/2023	<0.1							
3/2/2023		0.388	0.419 (J)	0.44 (J)		0.188 (J)		<0.1
9/12/2023		0.374			1.32	<0.1		
9/13/2023	0.0941 (J)			0.982			1.46	
9/14/2023			0.246 (J)					<0.1
3/19/2024					1.34		0.959 (J)	
3/20/2024	0.0744 (J)					0.294 (J)		
3/21/2024		0.277	0.469 (J)	0.814 (J)				<0.1
9/10/2024	0.0749 (J)				1.67		0.986 (J)	
9/11/2024		0.654		0.692		0.164 (J)		<0.1
9/12/2024			0.392 (J)					
3/17/2025					1.36	0.273 (J)		
3/18/2025							1.45	0.789 (J)
3/19/2025		0.557	0.407 (J)	0.798 (J)				
3/20/2025	0.0536 (J)							
9/9/2025		0.719	0.272 (J)		1.51	<0.1		
9/10/2025	<0.1							0.37 (J)
9/11/2025				0.589			0.995	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.002				<0.002			
11/30/2016	<0.002				0.0002 (J)			
2/15/2017	<0.002				<0.002			
5/31/2017		<0.002	<0.002					
6/1/2017	<0.002				<0.002			
6/2/2017				<0.002				
8/2/2017		0.0001 (J)	<0.002	0.0001 (J)				
8/15/2017			<0.002					
8/16/2017	<0.002	<0.002						
8/17/2017				0.0001 (J)	<0.002			
4/4/2018			<0.002	<0.002				
4/5/2018		<0.002						
5/8/2018			<0.002	<0.002				
5/9/2018		<0.002						
6/19/2018	<0.002	<0.002	<0.002	<0.002				
6/20/2018					<0.002			
9/25/2018			<0.002					
9/26/2018	<0.002	<0.002		<0.002	<0.002			
11/6/2018			<0.002					
11/7/2018	<0.002	<0.002		<0.002	<0.002			
3/25/2019			<0.002					
8/27/2019	<0.002			0.00011 (J)	<0.002			
8/28/2019		<0.002	<0.002					
10/15/2019				0.00038 (J)				
10/16/2019	<0.002	<0.002	<0.002		<0.002			
11/7/2019						<0.002	0.00063 (J)	0.0019 (J)
11/18/2019						<0.002		
11/19/2019							<0.002	0.0013 (J)
12/4/2019							5.3E-05 (J)	0.00045 (J)
12/5/2019						<0.002		
12/17/2019							<0.002	
12/18/2019						<0.002		0.00023 (J)
1/8/2020							<0.002	0.00029 (J)
1/9/2020						<0.002		
1/21/2020						<0.002	<0.002	0.00033 (J)
2/4/2020						<0.002	<0.002	<0.002
2/13/2020						<0.002	<0.025 (O)	0.00023 (J)
3/26/2020	<0.002							
3/27/2020		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
10/12/2020			<0.002			<0.002		
10/13/2020	<0.002	<0.002		<0.002	<0.002		<0.002	<0.002
3/2/2021				<0.002				
3/3/2021	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002
9/14/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/1/2022							<0.002	<0.002
3/2/2022	<0.002	<0.002	<0.002	<0.002		<0.002		
3/3/2022					<0.002			
9/20/2022						<0.002	<0.002	<0.002
9/21/2022	<0.002	<0.002	<0.002	0.00092 (J)	<0.002			
2/28/2023						<0.002	<0.002	<0.002
3/1/2023	<0.002	<0.002	<0.002		<0.002			
3/2/2023				<0.002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/12/2023	<0.002			<0.002	0.000563 (J)			
9/13/2023			<0.002				<0.002	0.000678 (J)
9/14/2023		<0.002				<0.002		
3/19/2024		<0.002				<0.002	<0.002	
3/20/2024	<0.002		<0.002	<0.002				
3/21/2024					<0.002			<0.002
9/10/2024			<0.002					
9/11/2024	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002
3/18/2025	<0.002		<0.002					
3/19/2025						<0.002	<0.002	<0.002
3/20/2025		<0.002		<0.002	<0.002			
9/9/2025	<0.002			<0.002		<0.002	<0.002	<0.002
9/10/2025		<0.002	<0.002		<0.002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0001 (J)	<0.002		
8/31/2016		<0.002	<0.002	<0.002				
10/25/2016							<0.002	
11/30/2016		0.0002 (J)	<0.002	<0.002	<0.002	<0.002	<0.002	
2/15/2017					<0.002	<0.002	<0.002	
2/16/2017		<0.002	<0.002	0.0002 (J)				
5/31/2017					9E-05 (J)	<0.002	<0.002	
6/1/2017	<0.002							
6/2/2017		<0.002	<0.002	<0.002				
8/2/2017	<0.002							
8/15/2017					<0.002		0.0002 (J)	
8/16/2017						8E-05 (J)		
8/17/2017	<0.002	<0.002	<0.002	8E-05 (J)				
4/4/2018	<0.002							
5/8/2018	<0.002							
6/19/2018					<0.002	<0.002	<0.002	
6/20/2018	<0.002	<0.002	<0.002					
6/21/2018				<0.002				
9/25/2018					<0.002	<0.002		
9/26/2018							<0.002	
9/27/2018	<0.002	<0.002	<0.002	<0.002				
11/6/2018	<0.002			<0.002		<0.002	<0.002	
11/7/2018		<0.002	<0.002		<0.002			
3/6/2019			<0.002					
8/26/2019						<0.002		
8/27/2019	<0.002				0.00022 (J)		0.00014 (J)	
8/28/2019		<0.002	<0.002	0.0001 (J)				
10/15/2019	<0.002				5.6E-05 (J)	<0.002		
10/16/2019		<0.002					0.00034 (J)	
10/17/2019			0.00012 (J)	<0.002				
3/27/2020					<0.002	<0.002	<0.002	
3/28/2020	<0.002	<0.002	<0.002	<0.002				
10/12/2020					<0.002			
10/13/2020	<0.002					<0.002	<0.002	
10/14/2020			<0.002	<0.002				
10/15/2020		<0.002						<0.002
1/4/2021		<0.002						
3/2/2021					<0.002	<0.002		
3/3/2021							<0.002	
3/4/2021	<0.002	<0.002	<0.002	<0.002				<0.002
9/13/2021					<0.002	<0.002		
9/14/2021	<0.002	<0.002	<0.002	<0.002			<0.002	<0.002
3/1/2022		<0.002	<0.002					<0.002
3/2/2022				<0.002				
3/3/2022	<0.002				<0.002	<0.002	<0.002	
9/20/2022			<0.002					<0.002
9/21/2022	<0.002	<0.002		<0.002	0.00083 (J)	<0.002	<0.002	
2/28/2023					<0.002		<0.002	
3/1/2023	<0.002							
3/2/2023		<0.002	<0.002	<0.002		<0.002		<0.002
9/12/2023		<0.002			<0.002	<0.002		
9/13/2023	<0.002			<0.002			<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/14/2023			<0.002					<0.002
3/19/2024					<0.002		<0.002	
3/20/2024	<0.002					<0.002		
3/21/2024		<0.002	<0.002	<0.002				<0.002
9/10/2024	<0.002				<0.002		<0.002	
9/11/2024		<0.002		<0.002		<0.002		<0.002
9/12/2024			<0.002					
3/17/2025					<0.002	<0.002		
3/18/2025							<0.002	<0.002
3/19/2025		<0.002	<0.002	<0.002				
3/20/2025	<0.002							
9/9/2025		<0.002	<0.002		0.00073 (J)	<0.002		
9/10/2025	<0.002							<0.002
9/11/2025				<0.002			<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.01				<0.01			
11/30/2016	<0.01				<0.01			
2/15/2017	<0.01				<0.01			
5/31/2017		<0.01	0.0047 (J)					
6/1/2017	<0.01				<0.01			
6/2/2017				<0.01				
8/2/2017		<0.01	0.0036 (J)	<0.01				
8/15/2017			<0.01					
8/16/2017	<0.01	<0.01						
8/17/2017				<0.01	<0.01			
4/4/2018			0.0041 (J)	0.0015 (J)				
4/5/2018		<0.01						
5/8/2018			0.0052 (J)	0.0014 (J)				
5/9/2018		<0.01						
6/19/2018	<0.01	<0.01	0.0017 (J)	0.0016 (J)				
6/20/2018					<0.01			
9/25/2018			0.0018 (J)					
9/26/2018	<0.01	<0.01		0.0018 (J)	<0.01			
11/6/2018			<0.01					
11/7/2018	<0.01	<0.01		<0.01	<0.01			
8/27/2019	<0.01			0.002 (J)	<0.01			
8/28/2019		<0.01	0.00082 (J)					
10/15/2019				0.0016 (J)				
10/16/2019	<0.01	<0.01	<0.01		<0.01			
11/7/2019						0.0055 (J)	0.015 (J)	0.026 (J)
11/18/2019						<0.1 (O)		
11/19/2019							0.02 (J)	0.023 (J)
12/4/2019							0.016 (J)	0.019 (J)
12/5/2019						0.0042 (J)		
12/17/2019							0.018 (J)	
12/18/2019						0.0045 (J)		0.02 (J)
1/8/2020							0.022 (J)	0.024 (J)
1/9/2020						0.0041 (J)		
1/21/2020						<0.15 (O)	0.018 (J)	0.022 (J)
2/4/2020						<0.3 (O)	0.02 (J)	0.024 (J)
2/13/2020						0.004 (J)	0.018 (J)	0.021 (J)
3/26/2020	<0.01							
3/27/2020		<0.01	<0.01	<0.01	<0.01	<0.01	0.018 (J)	0.024 (J)
10/12/2020			<0.01			<0.01		
10/13/2020	<0.01	<0.01		<0.01	<0.01		0.022 (J)	0.025 (J)
3/2/2021				<0.01				
3/3/2021	<0.01	<0.01	<0.01		<0.01	<0.01	0.019 (J)	0.018 (J)
9/14/2021	<0.01	<0.01	0.0033 (J)	<0.01	<0.01	<0.01	0.011 (J)	0.02 (J)
3/1/2022							<0.01	0.02 (J)
3/2/2022	0.00064 (J)	<0.01	0.0026	0.0017 (J)		<0.01		
3/3/2022					0.00061 (J)			
9/20/2022						<0.01	0.014 (J)	0.029
9/21/2022	<0.01	<0.01	<0.01	<0.01	<0.01			
2/28/2023						0.00327 (J)	0.019 (J)	0.0221 (J)
3/1/2023	<0.01	<0.01	<0.01		<0.01			
3/2/2023				<0.01				
9/12/2023	<0.01			<0.01	<0.01			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/13/2023			0.00978 (J)				0.0415	0.0493
9/14/2023		<0.01				0.00366 (J)		
3/19/2024		<0.01				<0.01	0.0201 (J)	
3/20/2024	<0.01		<0.01	<0.01				
3/21/2024					<0.01			0.0206 (J)
9/10/2024			<0.01					
9/11/2024	<0.01	<0.01		<0.01	<0.01	<0.01	0.02	0.0201
3/18/2025	<0.01		<0.01					
3/19/2025						<0.01	0.0173	0.0182
3/20/2025		<0.01		<0.01	<0.01			
9/9/2025	<0.01			<0.01		0.00343 (J)	0.0153 (J)	0.022 (J)
9/10/2025		<0.01	0.00642 (J)		<0.01			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0102 (J)	0.0112 (J)		
8/31/2016		0.0219 (J)	0.0389 (J)	0.0122 (J)				
10/25/2016							0.007 (J)	
11/30/2016		0.0333 (J)	0.0303 (J)	0.011 (J)	0.0106 (J)	<0.01	0.0086 (J)	
2/15/2017					0.0115 (J)	0.0105 (J)	0.0149 (J)	
2/16/2017		0.0376 (J)	0.05 (J)	0.0142 (J)				
5/31/2017					0.011 (J)	0.0106 (J)	0.019 (J)	
6/1/2017	<0.01							
6/2/2017		0.0346 (J)	0.0477 (J)	0.0229 (J)				
8/2/2017	<0.01							
8/15/2017					0.0123 (J)		0.016 (J)	
8/16/2017						0.0145 (J)		
8/17/2017	<0.01	0.0367 (J)	0.0645	0.0241 (J)				
4/4/2018	0.0013 (J)							
5/8/2018	0.0012 (J)							
6/19/2018					0.012 (J)	0.044 (J)	0.021 (J)	
6/20/2018	0.0015 (J)	0.034 (J)	0.066 (J)					
6/21/2018				0.03 (J)				
9/25/2018					0.011 (J)	0.041 (J)		
9/26/2018							0.02 (J)	
9/27/2018	0.0021 (J)	0.023 (J)	0.045 (J)	0.034 (J)				
11/6/2018	0.0038 (J)			0.037 (J)		0.047 (J)	0.017 (J)	
11/7/2018		0.022 (J)	0.11		0.013 (J)			
3/6/2019			0.12					
8/26/2019						0.059		
8/27/2019	0.002 (J)				0.012 (J)		0.023 (J)	
8/28/2019		0.023 (J)	0.13	0.12				
10/15/2019	0.0019 (J)				0.012 (J)	0.056 (J)		
10/16/2019		0.021 (J)					0.024 (J)	
10/17/2019			0.12	0.096				
11/20/2019				0.12				
11/21/2019						0.052		
3/27/2020					<0.01	0.052	0.033 (J)	
3/28/2020	<0.01	0.014 (J)	0.064	0.027 (J)				0.078
6/16/2020			0.12 (J)	0.049 (J)				0.096 (J)
10/12/2020					0.011 (J)			
10/13/2020	<0.01					0.046 (J)	0.028 (J)	
10/14/2020			0.11	0.039 (J)				
10/15/2020		0.57						0.093
1/4/2021		0.043 (J)						
3/2/2021					<0.01	0.046 (J)		
3/3/2021							<0.01	
3/4/2021	<0.01	0.017 (J)	0.096 (J)	0.035 (J)				0.094 (J)
7/1/2021						<0.01		
9/13/2021					0.01 (J)	0.047		
9/14/2021	<0.01	0.042 (J)	0.084	0.035 (J)			0.035 (J)	0.092
3/1/2022		0.028 (J)	0.074					0.088 (J)
3/2/2022				0.022 (J)				
3/3/2022	0.0017 (J)				<0.01	0.037 (J)	0.02 (J)	
9/20/2022			0.043					<0.01
9/21/2022	<0.01	0.018 (J)		0.02 (J)	0.0075 (J)	0.028	0.023 (J)	
2/28/2023					0.0104 (J)		0.0257 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/1/2023	<0.01							
3/2/2023		0.0237 (J)	0.0361 (J)	0.0217 (J)		0.0218 (J)		0.0919
9/12/2023		0.0301			0.0115	0.0222		
9/13/2023	<0.01			0.027			0.037	
9/14/2023			0.0551					0.087
3/19/2024					0.0104		0.0223	
3/20/2024	<0.01					0.0208		
3/21/2024		0.0329	0.0458	0.0135				0.08
9/10/2024	<0.01				0.00967 (J)		0.0211	
9/11/2024		0.029		0.0147		0.0204		0.0667
9/12/2024			0.055					
3/17/2025					0.00974 (J)	0.0373		
3/18/2025							0.023	0.0665
3/19/2025		0.0476	0.0636	0.0123				
3/20/2025	<0.01							
9/9/2025		0.0533	0.0616		0.0102	0.0348 (J)		
9/10/2025	<0.01							0.066
9/11/2025				0.0161			0.0213 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.0002				<0.0002			
11/30/2016	<0.0002				<0.0002			
2/15/2017	<0.0002				<0.0002			
5/31/2017		<0.0002	<0.0002					
6/1/2017	<0.0002				<0.0002			
6/2/2017				<0.0002				
8/2/2017		<0.0002	<0.0002	<0.0002				
8/15/2017			<0.0002					
8/16/2017	<0.0002	<0.0002						
8/17/2017				<0.0002	<0.0002			
4/4/2018			<0.0002	<0.0002				
4/5/2018		<0.0002						
5/8/2018			<0.0002	<0.0002				
5/9/2018		<0.0002						
6/19/2018	<0.0002	<0.0002	<0.0002	<0.0002				
6/20/2018					<0.0002			
9/25/2018			<0.0002					
9/26/2018	<0.0002	<0.0002		<0.0002	<0.0002			
11/6/2018			0.0007					
11/7/2018	<0.0002	<0.0002		<0.0002	<0.0002			
8/27/2019	<0.0002			<0.0002	<0.0002			
8/28/2019		<0.0002	<0.0002					
10/15/2019				<0.0002				
10/16/2019	<0.0002	<0.0002	<0.0002		<0.0002			
11/7/2019						<0.0002	<0.0002	<0.0002
11/18/2019						<0.0002		
11/19/2019							<0.0002	<0.0002
12/4/2019							<0.0002	<0.0002
12/5/2019						<0.0002		
12/17/2019							<0.0002	
12/18/2019						<0.0002		<0.0002
1/8/2020							<0.0002	<0.0002
1/9/2020						<0.0002		
1/21/2020						<0.0002	<0.0002	<0.0002
2/4/2020						<0.0002	<0.0002	<0.0002
2/13/2020						<0.0002	<0.0002	<0.0002
3/26/2020	<0.0002							
3/27/2020		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/14/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/1/2022							<0.0002	<0.0002
3/2/2022	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002		
3/3/2022					<0.0002			
9/20/2022						<0.0002	<0.0002	<0.0002
9/21/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
2/28/2023						<0.0002	<0.0002	<0.0002
3/1/2023	<0.0002	<0.0002	<0.0002		<0.0002			
3/2/2023				<0.0002				
9/12/2023	<0.0002			<0.0002	<0.0002			
9/13/2023			<0.0002				<0.0002	<0.0002
9/14/2023		<0.0002				<0.0002		
3/19/2024		<0.0002				<0.0002	8.7E-05 (J)	
3/20/2024	<0.0002		<0.0002	<0.0002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/21/2024					<0.0002			0.000162 (J)
9/10/2024			<0.0002					
9/11/2024	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/18/2025	<0.0002		<0.0002					
3/19/2025						<0.0002	9.8E-05 (J)	<0.0002
3/20/2025		<0.0002		<0.0002	<0.0002			
9/9/2025	<0.0002			<0.0002		<0.0002	<0.0002	<0.0002
9/10/2025		<0.0002	<0.0002		<0.0002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.0002	<0.0002		
8/31/2016		<0.0002	<0.0002	<0.0002				
10/25/2016							<0.0002	
11/30/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/15/2017					<0.0002	<0.0002	<0.0002	
2/16/2017		<0.0002	<0.0002	<0.0002				
5/31/2017					<0.0002	<0.0002	<0.0002	
6/1/2017	<0.0002							
6/2/2017		4.2E-05 (J)	<0.0002	<0.0002				
8/2/2017	<0.0002							
8/15/2017					<0.0002		<0.0002	
8/16/2017						<0.0002		
8/17/2017	<0.0002	<0.0002	<0.0002	<0.0002				
4/4/2018	<0.0002							
5/8/2018	<0.0002							
6/19/2018					<0.0002	<0.0002	<0.0002	
6/20/2018	<0.0002	<0.0002	<0.0002					
6/21/2018				<0.0002				
9/25/2018					<0.0002	<0.0002		
9/26/2018							<0.0002	
9/27/2018	<0.0002	<0.0002	<0.0002	<0.0002				
11/6/2018	0.00071			0.00067		0.00066	0.00064	
11/7/2018		<0.0002	<0.0002		<0.0002			
3/6/2019			<0.0002					
8/26/2019						<0.0002		
8/27/2019	<0.0002				<0.0002		<0.0002	
8/28/2019		<0.0002	<0.0002	<0.0002				
10/15/2019	<0.0002				<0.0002	<0.0002		
10/16/2019		<0.0002					<0.0002	
10/17/2019			<0.0002	<0.0002				
3/27/2020					<0.0002	<0.0002	<0.0002	
3/28/2020	<0.0002	<0.0002	<0.0002	<0.0002				
9/13/2021					<0.0002	<0.0002		
9/14/2021	<0.0002	<0.0002	0.00016 (J)	<0.0002			<0.0002	<0.0002
3/1/2022		<0.0002	<0.0002					<0.0002
3/2/2022				<0.0002				
3/3/2022	<0.0002				<0.0002	<0.0002	<0.0002	
9/20/2022			<0.0002					<0.0002
9/21/2022	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	
2/28/2023					<0.0002		<0.0002	
3/1/2023	<0.0002							
3/2/2023		<0.0002	<0.0002	<0.0002		<0.0002		<0.0002
9/12/2023		<0.0002			<0.0002	<0.0002		
9/13/2023	<0.0002			<0.0002			<0.0002	
9/14/2023			<0.0002					<0.0002
3/19/2024					<0.0002		<0.0002	
3/20/2024	<0.0002					<0.0002		
3/21/2024		<0.0002	<0.0002	<0.0002				<0.0002
9/10/2024	<0.0002				<0.0002		<0.0002	
9/11/2024		<0.0002		<0.0002		<0.0002		<0.0002
9/12/2024			<0.0002					
3/17/2025					<0.0002	<0.0002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/18/2025							<0.0002	<0.0002
3/19/2025		<0.0002	<0.0002	<0.0002				
3/20/2025	<0.0002							
9/9/2025		<0.0002	<0.0002		<0.0002	<0.0002		
9/10/2025	<0.0002							<0.0002
9/11/2025				<0.0002			<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.001				<0.001			
11/30/2016	<0.001				<0.001			
2/15/2017	<0.001				<0.001			
5/31/2017		<0.001	<0.001					
6/1/2017	<0.001				<0.001			
6/2/2017				<0.01				
8/2/2017		<0.001	<0.001	<0.01				
8/15/2017			<0.001					
8/16/2017	<0.001	<0.001						
8/17/2017				<0.01	<0.001			
4/4/2018			<0.001	<0.01				
4/5/2018		<0.001						
5/8/2018			<0.001	0.002 (J)				
5/9/2018		<0.001						
6/19/2018	<0.001	<0.001	<0.001	<0.01				
6/20/2018					<0.001			
9/25/2018			<0.001					
9/26/2018	<0.001	<0.001		<0.01	<0.001			
11/6/2018			<0.001					
11/7/2018	<0.001	<0.001		<0.01	<0.001			
8/27/2019	<0.001			<0.01	<0.001			
8/28/2019		<0.001	<0.001					
10/15/2019				<0.01				
10/16/2019	<0.001	<0.001	<0.001		<0.001			
11/7/2019						<0.001	<0.001	<0.001
11/18/2019						<0.001		
11/19/2019							<0.001	<0.001
12/4/2019							<0.001	<0.001
12/5/2019						<0.001		
12/17/2019							<0.001	
12/18/2019						<0.001		<0.001
1/8/2020							<0.001	<0.001
1/9/2020						<0.001		
1/21/2020						<0.001	<0.001	<0.001
2/4/2020						<0.001	<0.001	<0.001
2/13/2020						<0.001	<0.001	<0.001
3/26/2020	<0.001							
3/27/2020		<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001
9/14/2021	<0.001	0.0008 (J)	<0.001	0.0009 (J)	<0.001	<0.001	<0.001	<0.001
3/1/2022							<0.001	<0.001
3/2/2022	<0.001	<0.001	<0.001	0.00078 (J)		<0.001		
3/3/2022					0.00021 (J)			
9/20/2022						<0.001	<0.001	<0.001
9/21/2022	<0.001	<0.001	<0.001	0.00094 (J)	<0.001			
2/28/2023						<0.001	<0.001	<0.001
3/1/2023	0.000258 (J)	<0.001	<0.001		0.000517 (J)			
3/2/2023				0.00133 (J)				
9/12/2023	<0.001			0.00141	0.00023 (J)			
9/13/2023			<0.001				<0.001	<0.001
9/14/2023		<0.001				<0.001		
3/19/2024		0.000259 (J)				<0.001	<0.001	
3/20/2024	<0.001		<0.001	0.000738 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/21/2024					<0.001			<0.001
9/10/2024			<0.001					
9/11/2024	<0.001	<0.001		0.00123	<0.001	<0.001	<0.001	<0.001
3/18/2025	<0.001		<0.001					
3/19/2025						<0.001	<0.001	<0.001
3/20/2025		<0.001		0.00118	<0.001			
9/9/2025	<0.001			0.000716 (J)		<0.001	<0.001	<0.001
9/10/2025		<0.001	0.000294 (J)		<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.015	<0.001		
8/31/2016		<0.02	<0.02	<0.02				
10/25/2016							<0.001	
11/30/2016		<0.02	<0.02	<0.02	<0.015	<0.001	<0.001	
2/15/2017					<0.015	<0.001	<0.001	
2/16/2017		<0.02	<0.02	<0.02				
5/31/2017					<0.015	<0.001	<0.001	
6/1/2017	<0.001							
6/2/2017		<0.02	<0.02	<0.02				
8/2/2017	<0.001							
8/15/2017					<0.015		<0.001	
8/16/2017						<0.001		
8/17/2017	<0.001	0.0012 (J)	0.0025 (J)	<0.02				
4/4/2018	<0.001							
5/8/2018	<0.001							
6/19/2018					<0.015	<0.001	<0.001	
6/20/2018	<0.001	<0.02	<0.02					
6/21/2018				<0.02				
9/25/2018					<0.015	<0.001		
9/26/2018							<0.001	
9/27/2018	<0.001	<0.02	<0.02	<0.02				
11/6/2018	<0.001			<0.02		<0.001	<0.001	
11/7/2018		<0.02	0.0024 (J)		<0.015			
3/6/2019			<0.02					
8/26/2019						<0.001		
8/27/2019	<0.001				<0.015		<0.001	
8/28/2019		<0.02	0.0017 (J)	<0.02				
10/15/2019	<0.001				<0.015	<0.001		
10/16/2019		<0.02					<0.001	
10/17/2019			0.0017 (J)	<0.02				
3/27/2020					<0.015	<0.001	<0.001	
3/28/2020	<0.001	<0.02	<0.02	<0.02				
9/13/2021					<0.015	<0.001		
9/14/2021	<0.001	0.0099 (J)	<0.02	<0.02			<0.001	<0.005
3/1/2022		<0.02	<0.02					<0.005
3/2/2022				<0.02				
3/3/2022	0.00015 (J)				<0.015	<0.001	<0.001	
9/20/2022			0.0013 (J)					<0.005
9/21/2022	<0.001	0.00095 (J)		0.00095 (J)	<0.015	<0.001	<0.001	
2/28/2023					0.000362 (J)		0.000313 (J)	
3/1/2023	<0.001							
3/2/2023		0.000852 (J)	0.00131 (J)	0.000963 (J)		<0.001		0.000245 (J)
9/12/2023		0.000809 (J)			0.000423 (J)	<0.001		
9/13/2023	<0.001			0.000847 (J)			0.000217 (J)	
9/14/2023			0.000839 (J)					<0.005
3/19/2024					0.00055 (J)		0.00102 (J)	
3/20/2024	<0.001					<0.001		
3/21/2024		0.000936 (J)	0.000983 (J)	0.00146 (J)				<0.005
9/10/2024	<0.001				0.000276 (J)		<0.001	
9/11/2024		0.00113		0.000949 (J)		<0.001		0.000217 (J)
9/12/2024			0.000895 (J)					
3/17/2025					0.00044 (J)	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/18/2025							0.00028 (J)	0.00031 (J)
3/19/2025		0.0018	0.000896 (J)	0.000592 (J)				
3/20/2025	<0.001							
9/9/2025		0.00212	0.000587 (J)		0.000438 (J)	<0.001		
9/10/2025	0.000218 (J)							0.000393 (J)
9/11/2025				0.000526 (J)			0.000272 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (SU) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	5.66				5.18			
11/30/2016	5.36				4.96			
2/15/2017	5.25				5.13			
5/31/2017		5.06	5.29					
6/1/2017	5.59				4.99			
6/2/2017				5.31				
8/2/2017		5	5.19	5.05				
8/15/2017			5.19					
8/16/2017	5.58	4.98						
8/17/2017				5.52	4.68			
4/4/2018			5.19	5.45				
4/5/2018		5.02						
5/8/2018			5.3	5.54				
5/9/2018		4.96						
6/19/2018	5.51	5.02	5.15	5.6				
6/20/2018					4.77			
9/25/2018			5.13					
9/26/2018	5.32	5.06		5.17	4.65			
11/6/2018			5.08					
11/7/2018	5.72	5.03		5.47	4.99			
3/24/2019				5.4				
3/25/2019	5.75	5.08	5.05	5.4	5.13			
8/27/2019	5.58			5.35	4.88			
8/28/2019		4.99	4.87					
10/15/2019				5.32				
10/16/2019	5.72	4.98	5.05		4.89			
11/7/2019						4.25	5.21	3.79
11/18/2019						4.12		
11/19/2019		5.11					5.15	3.78
11/20/2019	5.77							
12/4/2019							5.28	3.87
12/5/2019						4.17		
12/17/2019							4.96	
12/18/2019						4.2		3.76
1/8/2020							5.04	3.77
1/9/2020						4.19		
1/21/2020						4.28	5.1	3.73
2/4/2020						4.26	5.15	3.72
2/13/2020						4.2	5.07	3.75
3/26/2020	5.45							
3/27/2020		5.12	5.09	5.3	5.12	4.34	5.14	3.81
10/12/2020			5			4.29		
10/13/2020	5.69	5.03		5.02	5.17		5.04	3.72
3/2/2021				5.16				
3/3/2021	5.81	5.06	5.37		5.71	4.37	5.1	3.76
9/14/2021	5.13	5.04	5.5	5.39	4.69	4.28	5.31	3.72
3/1/2022							5.38	3.69
3/2/2022	5.32	5.16	5.11	5.37		4.33		
3/3/2022					4.88			
9/20/2022						4.47	5.14	3.63
9/21/2022	4.95	5.14	4.97	5.23	4.91			
2/28/2023						4.42	5.08	3.7 (D)

Time Series

Constituent: pH, Field (SU) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/1/2023	4.91	5.1 (D)	4.78		4.76			
3/2/2023				4.45				
9/12/2023	4.54			4.4	4.45			
9/13/2023			4.92				5.05	3.67
9/14/2023		5.02				4.17		
3/19/2024		4.62				4.42	4.97	
3/20/2024	5.04		4.18	5.23				
3/21/2024					5.1			3.67
9/10/2024			5.19					
9/11/2024	5.01	5.43		4.99	5.41	4.04	4.61	3.58
3/18/2025	5.14		5.06					
3/19/2025						4.49	5.16	3.83
3/20/2025		5.6		5.34	5.52			
9/9/2025	5.01			5.33		4.29	4.94	3.67
9/10/2025		5.3	5.29		4.73			

Time Series

Constituent: pH, Field (SU) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					6.49	7.04		
8/31/2016		6.93	7.21	6.66				
10/25/2016							6.95	
11/30/2016		6.77	7.23	6.69	6.5	7.13	6.95	
2/15/2017					6.51	7.02	6.85	
2/16/2017		6.89	7.27	6.72				
5/31/2017					6.45	7	6.96	
6/1/2017	5.68							
6/2/2017		6.83	7.18	6.53				
8/2/2017	5.2							
8/15/2017					6.41		6.99	
8/16/2017						6.88		
8/17/2017	5.31	6.76	7.15	6.28				
4/4/2018	4.74							
5/8/2018	4.78							
6/19/2018					6.32	6.78	6.91	
6/20/2018	4.79	6.83	7.19					
6/21/2018				6.45				
9/25/2018					6.31	6.75		
9/26/2018							6.8	
9/27/2018	5.14	6.64	7.21	6.48				
11/6/2018	4.9			6.18		6.92	5.99	
11/7/2018		6.6	6.91		6.3			
3/24/2019		6.61	6.98	6.39	6.4	6.59	6.62	
3/25/2019	4.93							
8/26/2019						6.62		
8/27/2019	5.05				6.24		6.23	
8/28/2019		6.69	6.87	6.35				
10/15/2019	4.89				6.19	6.58		
10/16/2019		6.64					6.54	
10/17/2019			6.86	6.4				
11/20/2019	5.03	6.58		6.27				
11/21/2019						6.67	6.44	
3/27/2020					6.33	6.59	6.93	
3/28/2020	5.27	6.6	6.8	6.35				7.11
6/16/2020			6.87	6.33				7.22
10/12/2020					6.35			
10/13/2020	5.25					6.56	6.34	
10/14/2020			6.93	6.32				
10/15/2020		6.52						7.08
1/4/2021		6.66						
3/2/2021					6.34	6.55		
3/3/2021							6.58	
3/4/2021	5.31	6.52	6.94	6.33				7.21
7/1/2021						6.64		
9/13/2021					6.24	6.3		
9/14/2021	5.09	6.67	6.94	6.28			6.77	7.11
3/1/2022		6.87	7.24					7.08
3/2/2022				6.41				
3/3/2022	4.98				6.51	6.49	6.26	
6/28/2022			7.28					7.09
9/20/2022			7.29					7.07

Time Series

Constituent: pH, Field (SU) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/21/2022	5.34	6.93		6.27	6.3	6.61	6.72	
2/28/2023					6.28		6.62	
3/1/2023	4.93							
3/2/2023		6.55	7.38	6.28		6.54 (D)		7.12
9/12/2023		6.81			6.43	6.68		
9/13/2023	5.29			6.53			6.55	
9/14/2023			7.3					6.95
3/19/2024					6.55		6.38	
3/20/2024	4.41					6.72		
3/21/2024		6.66	7.02	6.31				7.21
9/10/2024	5.1				6.44		6.11	
9/11/2024		6.94		6.53		6.66		7.18
9/12/2024			7.2					
3/17/2025					6.49	6.44		
3/18/2025							6.59	7.2
3/19/2025		6.91	7.07	6.61				
3/20/2025	4.97							
9/9/2025		6.85	6.72		6.38	6.51		
9/10/2025	5.42							7.17
9/11/2025				6.44			6.42	

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.005				<0.005			
11/30/2016	0.0011 (J)				0.0011 (J)			
2/15/2017	<0.005				<0.005			
5/31/2017		<0.005	<0.005					
6/1/2017	<0.005				<0.005			
6/2/2017				<0.005				
8/2/2017		<0.005	<0.005	<0.005				
8/15/2017			<0.005					
8/16/2017	<0.005	<0.005						
8/17/2017				<0.005	<0.005			
4/4/2018			<0.005	<0.005				
4/5/2018		<0.005						
5/8/2018			<0.005	0.0016 (J)				
5/9/2018		<0.005						
6/19/2018	<0.005	<0.005	<0.005	0.0022 (J)				
6/20/2018					<0.005			
9/25/2018			<0.005					
9/26/2018	<0.005	<0.005		0.0015 (J)	<0.005			
11/6/2018			<0.005					
11/7/2018	<0.005	<0.005		<0.005	<0.005			
3/25/2019			<0.005					
8/27/2019	<0.005			0.0018 (J)	<0.005			
8/28/2019		<0.005	<0.005					
10/15/2019				<0.005				
10/16/2019	<0.005	<0.005	<0.005		<0.005			
11/7/2019						0.036	0.063	0.12
11/18/2019						<0.1		
11/19/2019							0.039 (J)	0.047 (J)
12/4/2019							0.12	0.11
12/5/2019						0.032		
12/17/2019							0.031 (J)	
12/18/2019						0.01		0.032 (J)
1/8/2020							0.066	0.044 (J)
1/9/2020						0.01		
1/21/2020						0.023 (J)	0.13	0.089
2/4/2020						0.017 (J)	0.065 (J)	0.049 (J)
2/13/2020						0.015	0.15	0.11
3/26/2020	<0.005							
3/27/2020		<0.005	<0.005	<0.005	<0.005	0.0034 (J)	0.013	0.012
10/12/2020			<0.005			<0.005		
10/13/2020	<0.005	<0.005		<0.005	<0.005		0.0076 (J)	0.0056 (J)
3/2/2021				<0.005				
3/3/2021	<0.005	<0.005	<0.005		<0.005	0.0012 (J)	0.013 (J)	0.0094 (J)
9/14/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0022 (J)	0.0018 (J)
3/1/2022							<0.04	0.0058 (J)
3/2/2022	<0.005	<0.005	0.00022 (J)	0.00028 (J)		<0.005		
3/3/2022					<0.005			
9/20/2022						<0.005	0.0046 (J)	0.0027 (J)
9/21/2022	<0.005	<0.005	<0.005	<0.005	<0.005			
2/28/2023						0.00583 (J)	0.034 (J)	0.0225 (J)
3/1/2023	<0.005	<0.005	<0.005		<0.005			
3/2/2023				<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/12/2023	<0.005			<0.005	<0.005			
9/13/2023			<0.005				0.0237	0.0182
9/14/2023		<0.005				0.00948		
3/19/2024		<0.005				0.00456 (J)	0.0492	
3/20/2024	<0.005		<0.005	<0.005				
3/21/2024					<0.005			0.0249 (J)
9/10/2024			<0.005					
9/11/2024	<0.005	<0.005		<0.005	<0.005	0.0044 (J)	0.0469	0.0212
3/18/2025	<0.005		<0.005					
3/19/2025						0.0056	0.0481	0.0279
3/20/2025		<0.005		<0.005	<0.005			
9/9/2025	<0.005			<0.005		0.00473 (J)	0.0727	0.0365
9/10/2025		<0.005	<0.005		<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0011 (J)	<0.025		
8/31/2016		0.002 (J)	0.0015 (J)	0.0021 (J)				
10/25/2016							0.003 (J)	
11/30/2016		0.0023 (J)	0.0054 (J)	<0.025	0.0023 (J)	<0.025	0.0087 (J)	
2/15/2017					0.0021 (J)	0.0014 (J)	0.0067 (J)	
2/16/2017		0.002 (J)	0.0022 (J)	0.0025 (J)				
5/31/2017					<0.005	<0.025	0.0018 (J)	
6/1/2017	<0.005							
6/2/2017		<0.025	<0.025	<0.025				
8/2/2017	<0.005							
8/15/2017					0.0021 (J)		0.0025 (J)	
8/16/2017						0.0018 (J)		
8/17/2017	<0.005	<0.025	0.002 (J)	0.0033 (J)				
4/4/2018	<0.005							
5/8/2018	<0.005							
6/19/2018					0.0017 (J)	<0.025	<0.025	
6/20/2018	<0.005	<0.025	<0.025					
6/21/2018				<0.025				
9/25/2018					0.002 (J)	0.0019 (J)		
9/26/2018							0.0016 (J)	
9/27/2018	<0.005	<0.025	<0.025	0.0023 (J)				
11/6/2018	0.0025 (J)			0.0048 (J)		0.0057 (J)	<0.025	
11/7/2018		<0.025	0.0075 (J)		<0.005			
3/6/2019			0.0024 (J)					
8/26/2019						0.0025 (J)		
8/27/2019	<0.005				0.0019 (J)		0.0018 (J)	
8/28/2019		<0.025	0.0014 (J)	0.0019 (J)				
10/15/2019	<0.005				<0.005	0.003 (J)		
10/16/2019		<0.025					<0.025	
10/17/2019			0.0066 (J)	0.0049 (J)				
3/27/2020					<0.005	<0.025	<0.025	
3/28/2020	<0.005	<0.025	<0.025	<0.025				
10/12/2020					<0.005			
10/13/2020	<0.005					<0.025	<0.025	
10/14/2020			<0.025	<0.025				
10/15/2020		0.0028 (J)						<0.025
1/4/2021		<0.025						
3/2/2021					<0.005	<0.025		
3/3/2021							<0.025	
3/4/2021	0.00038 (J)	<0.025	<0.025	<0.025				<0.025
9/13/2021					<0.005	<0.025		
9/14/2021	<0.005	<0.025	<0.025	<0.025			<0.025	<0.025
3/1/2022		<0.025	<0.025					<0.025
3/2/2022				<0.025				
3/3/2022	0.00012 (J)				<0.005	<0.025	<0.025	
9/20/2022			<0.025					<0.025
9/21/2022	<0.005	<0.025		<0.025	<0.005	<0.025	<0.025	
2/28/2023					0.00157 (J)		0.00184 (J)	
3/1/2023	<0.005							
3/2/2023		<0.025	<0.025	0.00238 (J)		<0.025		0.00205 (J)
9/12/2023		<0.025			<0.005	<0.025		
9/13/2023	<0.005			<0.025			<0.025	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/14/2023			<0.025					<0.025
3/19/2024					<0.005		<0.025	
3/20/2024	<0.005					<0.025		
3/21/2024		<0.025	<0.025	<0.025				<0.025
9/10/2024	<0.005				<0.005		<0.025	
9/11/2024		<0.025		<0.025		<0.025		0.00176 (J)
9/12/2024			<0.025					
3/17/2025					<0.005	<0.025		
3/18/2025							<0.025	<0.025
3/19/2025		<0.025	<0.025	0.00157 (J)				
3/20/2025	<0.005							
9/9/2025		<0.025	<0.025		<0.005	<0.025		
9/10/2025	<0.005							<0.025
9/11/2025				<0.025			<0.025	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	17				24			
11/30/2016	33				26			
2/15/2017	83				30			
5/31/2017		46	40					
6/1/2017	51				24			
6/2/2017				13				
8/2/2017		43	34	14				
8/15/2017			24					
8/16/2017	36	41						
8/17/2017				14	26			
4/4/2018			33.9	13.4				
4/5/2018		33.4						
5/8/2018			35.7	14.8				
5/9/2018		36						
6/19/2018	50.3	35.5	23.7	15.5				
6/20/2018					31.2			
9/25/2018			25.6					
9/26/2018	54.1	39.6		23	36.8			
11/6/2018			25.2					
11/7/2018	45.6	35.8		22.2	35			
3/25/2019	43	34.2	24.9	22.4	40.1			
10/15/2019				17.9				
10/16/2019	31.9	24.4	17.4		28.5			
11/7/2019						379	832	1010
11/18/2019						737		
11/19/2019							795	1140
12/4/2019							810	1020
12/5/2019						351		
12/17/2019							535	
12/18/2019						274		444 (J)
1/8/2020							603	747
1/9/2020						254		
1/21/2020						254	611	798
2/4/2020						432	599	1120
2/13/2020						300	761	833
3/26/2020	36.2							
3/27/2020		28.6	23.4	14.6	31.2	219	836	700
10/12/2020			19.3			191		
10/13/2020	32.3	27.6		7.6	26.8		609	638
3/2/2021				8				
3/3/2021	33.8	27.6	19.9		30.5	171	708	743
9/14/2021	34.2	30.4	33.1	16.7	24.4	134	995	659
3/1/2022							158	543
3/2/2022	30.8	25.7	19.5	16		186		
3/3/2022					20.4			
9/20/2022						160	740	750
9/21/2022	39	29	23	6.3	24			
2/28/2023						186	820	950
3/1/2023	45.3	27.4	21.4		25.8			
3/2/2023				8.12				
9/12/2023	47.5			6.48	25.2			
9/13/2023			42				1300	832

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023		28.8				165		
3/19/2024		28				167	810	
3/20/2024	45.4		34.5	12.3				
3/21/2024					29.4			1190
9/10/2024			24.3					
9/11/2024	42.1	26.2		5.75	23.2	149	781	852
3/18/2025	30.4		26					
3/19/2025						179	843	920
3/20/2025		24.3		11.5	21.9			
9/9/2025	24.9			14.3		140	824	784
9/10/2025		23.9	41		24.7			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					4.3	6.4		
8/31/2016		37	21	290				
10/25/2016							84	
11/30/2016		63	19	240	7.6	4.5	52	
2/15/2017					3	37	190	
2/16/2017		90	22	220				
5/31/2017					2.5	61	260	
6/1/2017	42							
6/2/2017		210	28	500				
8/2/2017	120							
8/15/2017					3.2		210	
8/16/2017						130		
8/17/2017	110	80	69	510				
4/4/2018	70.6							
5/8/2018	61.4							
6/19/2018					1.6	498	218	
6/20/2018	25.3	46 (J)	33					
6/21/2018				481				
9/25/2018					1	790		
9/26/2018							333 (D)	
9/27/2018	63.4	58.5 (J)	29.4	777				
11/6/2018	136			926		875	182	
11/7/2018		41.3 (J)	734		0.41 (J)			
3/6/2019			1220 (J)					
3/24/2019		131	413	1070	1.5	1170	413	
3/25/2019	137							
10/15/2019	105				0.54 (J)	<1		
10/16/2019		252					453	
10/17/2019			507	1230				
11/20/2019		132		1550				
11/21/2019						1070	428	
3/27/2020					<5	899	504	
3/28/2020	86.6	63.8	701	1090				
4/23/2020			552					936
6/16/2020			663	961				970
10/12/2020					<5			
10/13/2020	92.3					695	378	
10/14/2020			531 (D)	938		682		
10/15/2020		147						1060
1/4/2021		262						
3/2/2021					1.2	677		
3/3/2021							420	
3/4/2021	99.1	82.2	596	982				1060
7/1/2021						693		
9/13/2021					<5	680		
9/14/2021	96.2	459	490	819			460	971
3/1/2022		143	440					755
3/2/2022				702				
3/3/2022	50.6				<5	754	324	
6/28/2022			213					553
9/20/2022			320					820
9/21/2022	52	100		660	<5	270	330	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
2/28/2023					1.33		334	
3/1/2023	44.2							
3/2/2023		84.2	157	640		252		859
9/12/2023		139			1.18	160		
9/13/2023	27.1			620			300	
9/14/2023			263					767
3/19/2024					1.7		312	
3/20/2024	73.7					207		
3/21/2024		189	189	360				799
9/10/2024	103				0.462		323	
9/11/2024		148		296		180		752
9/12/2024			271					
3/17/2025					1.83	443		
3/18/2025							363	635
3/19/2025		399	549	404				
3/20/2025	41.8							
9/9/2025		560	775		0.343 (J)	563		
9/10/2025	25.8							505
9/11/2025				457			286	

Time Series

Constituent: TDS (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	86				99			
11/30/2016	131				111			
2/15/2017	212				170			
5/31/2017		123	257					
6/1/2017	103				98			
6/2/2017				69				
8/2/2017		136	183	35				
8/15/2017			90					
8/16/2017	65	124						
8/17/2017				51	84			
4/4/2018			197	90				
4/5/2018		128						
5/8/2018			225	89				
5/9/2018		127						
6/19/2018	142	143	112	110				
6/20/2018					123			
9/25/2018			137					
9/26/2018	133	132		124	117			
11/6/2018			89					
11/7/2018	121	134		125	120			
3/25/2019	116	111	74	98	101			
10/15/2019				107				
10/16/2019	104	96	82		95			
11/7/2019						4140	10900	13500
11/18/2019						4030		
11/19/2019							10000	13300
12/4/2019							11000	13200
12/5/2019						3840		
12/17/2019							9860	
12/18/2019						3880		12500
1/8/2020							9760	12300
1/9/2020						3520		
1/21/2020						3280	10100	12000
2/4/2020						3220	10600	12300
2/13/2020						3580	10900	12400
3/26/2020	114							
3/27/2020		119	87	110	110	3090	14300	14600
10/12/2020			94			2920		
10/13/2020	113	118		63	115		6600	13900
3/2/2021				40				
3/3/2021	99	84	66		122	2620	11000	11400
9/14/2021	66	76	191	96	<25	2190	14600	10300
3/1/2022							4050	10500
3/2/2022	97	94	124	103		3100		
3/3/2022					104			
9/20/2022						2000	10000	8600
9/21/2022	100	90	110	38	78			
2/28/2023						2090	10400	8720
3/1/2023	78	73	67		56			
3/2/2023				35				
9/12/2023	80			20	42			
9/13/2023			274				15500	10300

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: TDS (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023		76				2040		
3/19/2024		50				1960	9800	
3/20/2024	84		137	65				
3/21/2024					51			7330
9/10/2024			79					
9/11/2024	70	64		28	54	1530	9180	8630
3/18/2025	86		70					
3/19/2025						1930	10100	9900
3/20/2025		69		63	61			
9/9/2025	129			107		1640	10900	8360
9/10/2025		85	282		54			

Time Series

Constituent: TDS (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					1910	1310		
8/31/2016		3620	4160	5100				
10/25/2016							2900	
11/30/2016		4030	3950	4680	1910	1050	3970	
2/15/2017					1870	1440	3820	
2/16/2017		4080	4600	5080				
5/31/2017					1920	1740	5050	
6/1/2017	97							
6/2/2017		5560	4470	8000				
8/2/2017	538							
8/15/2017					1840		4820	
8/16/2017						3010		
8/17/2017	445	4620	5450	8320				
4/4/2018	365							
5/8/2018	304							
6/19/2018					1820	8630	5640	
6/20/2018	114	3370	4940					
6/21/2018				7500				
9/25/2018					1760	10700		
9/26/2018							6770 (D)	
9/27/2018	255	2360	4480	10200				
11/6/2018	388			11000		11100	4160	
11/7/2018		2230	15100		1800			
3/6/2019			19000					
3/24/2019		1450	13700	13700	1770	14200	6840	
3/25/2019	327							
10/15/2019	237				1730	15400		
10/16/2019		2860					7740	
10/17/2019			16100	13200				
11/20/2019		2640		16700				
11/21/2019						15800	7720	
3/27/2020					1970	16400	10200	
3/28/2020	284	1470	18800	18300				
6/16/2020			17800	17900				20100
10/12/2020					1560			
10/13/2020	<25					15600	8750	
10/14/2020			15200	18400				
10/15/2020		5100						19300
1/4/2021		7750						
3/2/2021					1430	12000		
3/3/2021							8830	
3/4/2021	285	1700	14200	17100				19000
7/1/2021						11200		
9/13/2021					1450	11400		
9/14/2021	193	8020	11800	13400			8820	16400
3/1/2022		3780	9040					15600
3/2/2022				12600				
3/3/2022	146				1400	11500	8120	
6/28/2022			6140					15400
9/20/2022			3900					13000
9/21/2022	180	2100		9400	1300	7400	6200	
2/28/2023					1290		6810	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: TDS (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/1/2023	142							
3/2/2023		1710	3120	10500		3280		12300
9/12/2023		2940			1230	2720		
9/13/2023	51			7440			6310	
9/14/2023			4240					10600
3/19/2024					1210		5920	
3/20/2024	255					2480		
3/21/2024		3320	3820	6050				9680
9/10/2024	316				1230		5490	
9/11/2024		3020		4640		2480		8970
9/12/2024			5340					
3/17/2025					1220	6320		
3/18/2025							5200	9000
3/19/2025		7440	8300	5420				
3/20/2025	152							
9/9/2025		9300	11700		1130	8750		
9/10/2025	106							8230
9/11/2025				5990			5530	

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.002				<0.002			
11/30/2016	<0.002				<0.002			
2/15/2017	<0.002				<0.002			
5/31/2017		<0.002	<0.002					
6/1/2017	<0.002				6E-05 (J)			
6/2/2017				<0.002				
8/2/2017		<0.002	<0.002	<0.002				
8/15/2017			<0.002					
8/16/2017	<0.002	<0.002						
8/17/2017				<0.002	7E-05 (J)			
4/4/2018			<0.002	<0.002				
4/5/2018		<0.002						
5/8/2018			<0.002	<0.002				
5/9/2018		<0.002						
6/19/2018	<0.002	<0.002	<0.002	<0.002				
6/20/2018					<0.002			
9/25/2018			<0.002					
9/26/2018	<0.002	<0.002		<0.002	<0.002			
11/6/2018			<0.002					
11/7/2018	<0.002	<0.002		<0.002	<0.002			
8/27/2019	<0.002			<0.002	6.6E-05 (J)			
8/28/2019		<0.002	<0.002					
10/15/2019				<0.002				
10/16/2019	<0.002	<0.002	<0.002		<0.002			
11/7/2019						<0.002	<0.002	<0.002
11/18/2019						<0.002		
11/19/2019							<0.002	<0.002
12/4/2019							<0.002	<0.002
12/5/2019						<0.002		
12/17/2019							<0.002	
12/18/2019						<0.002		<0.002
1/8/2020							<0.002	<0.002
1/9/2020						<0.002		
1/21/2020						<0.002	<0.002	<0.002
2/4/2020						<0.002	<0.002	<0.002
2/13/2020						<0.002	<0.002	<0.002
3/26/2020	<0.002							
3/27/2020		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/14/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/1/2022							<0.002	<0.002
3/2/2022	<0.002	<0.002	<0.002	<0.002		<0.002		
3/3/2022					6.6E-05 (J)			
9/20/2022						<0.002	<0.002	<0.002
9/21/2022	<0.002	<0.002	<0.002	<0.002	<0.002			
2/28/2023						<0.002	<0.002	<0.002
3/1/2023	<0.002	<0.002	<0.002		<0.002			
3/2/2023				<0.002				
9/12/2023	<0.002			<0.002	<0.002			
9/13/2023			<0.002				<0.002	<0.002
9/14/2023		<0.002				<0.002		
3/19/2024		<0.002				<0.002	<0.002	
3/20/2024	<0.002		<0.002	<0.002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/21/2024					<0.002			<0.002
9/10/2024			<0.002					
9/11/2024	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002
3/18/2025	<0.002		<0.002					
3/19/2025						<0.002	<0.002	<0.002
3/20/2025		<0.002		<0.002	<0.002			
9/9/2025	<0.002			<0.002		<0.002	<0.002	<0.002
9/10/2025		<0.002	<0.002		<0.002			

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.002	<0.002		
8/31/2016		<0.002	<0.002	<0.002				
10/25/2016							<0.002	
11/30/2016		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
2/15/2017					<0.002	<0.002	<0.002	
2/16/2017		<0.002	<0.002	<0.002				
5/31/2017					<0.002	<0.002	<0.002	
6/1/2017	<0.002							
6/2/2017		<0.002	<0.002	<0.002				
8/2/2017	<0.002							
8/15/2017					<0.002		<0.002	
8/16/2017						<0.002		
8/17/2017	<0.002	<0.002	<0.002	<0.002				
4/4/2018	<0.002							
5/8/2018	<0.002							
6/19/2018					<0.002	<0.002	<0.002	
6/20/2018	<0.002	<0.002	<0.002					
6/21/2018				<0.002				
9/25/2018					<0.002	<0.002		
9/26/2018							<0.002	
9/27/2018	<0.002	<0.002	<0.002	<0.002				
11/6/2018	<0.002			<0.002		<0.002	<0.002	
11/7/2018		<0.002	<0.002		<0.002			
3/6/2019			<0.002					
8/26/2019						<0.002		
8/27/2019	<0.002				<0.002		<0.002	
8/28/2019		<0.002	<0.002	<0.002				
10/15/2019	<0.002				<0.002	<0.002		
10/16/2019		<0.002					<0.002	
10/17/2019			7.6E-05 (J)	<0.002				
3/27/2020					<0.002	<0.002	<0.002	
3/28/2020	<0.002	<0.002	<0.002	<0.002				
9/13/2021					<0.002	<0.002		
9/14/2021	<0.002	<0.002	<0.002	<0.002			<0.002	<0.002
3/1/2022		<0.002	<0.002					<0.002
3/2/2022				<0.002				
3/3/2022	<0.002				<0.002	<0.002	<0.002	
9/20/2022			<0.002					<0.002
9/21/2022	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	
2/28/2023					<0.002		<0.002	
3/1/2023	<0.002							
3/2/2023		<0.002	<0.002	<0.002		<0.002		<0.002
9/12/2023		<0.002			<0.002	<0.002		
9/13/2023	<0.002			<0.002			<0.002	
9/14/2023			<0.002					<0.002
3/19/2024					<0.002		<0.002	
3/20/2024	<0.002					<0.002		
3/21/2024		<0.002	<0.002	<0.002				<0.002
9/10/2024	<0.002				<0.002		<0.002	
9/11/2024		<0.002		<0.002		<0.002		<0.002
9/12/2024			<0.002					
3/17/2025					<0.002	<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/10/2025 2:52 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/18/2025							<0.002	<0.002
3/19/2025		<0.002	<0.002	<0.002				
3/20/2025	<0.002							
9/9/2025		<0.002	<0.002		<0.002	<0.002		
9/10/2025	<0.002							<0.002
9/11/2025				<0.002			<0.002	

ND substitution: RL or RL/2 if <15% NDs.

FIGURE B.

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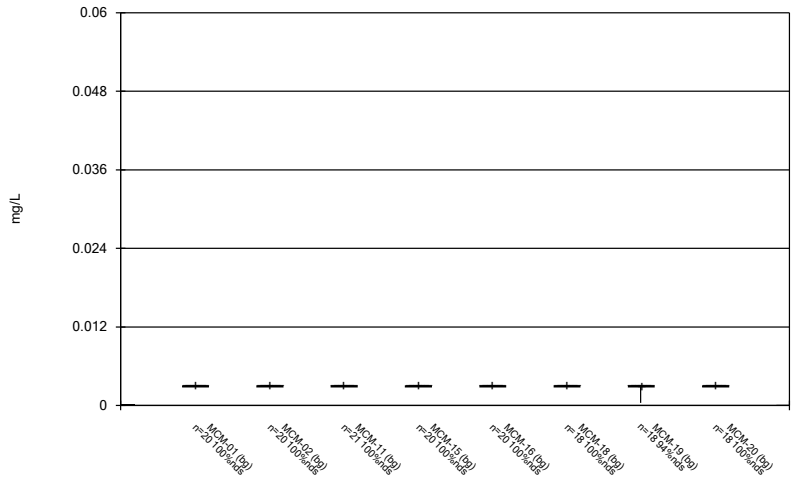
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/10/2025 2:57 PM

Plant McManus Client: Southern Company Data: McManus AP1

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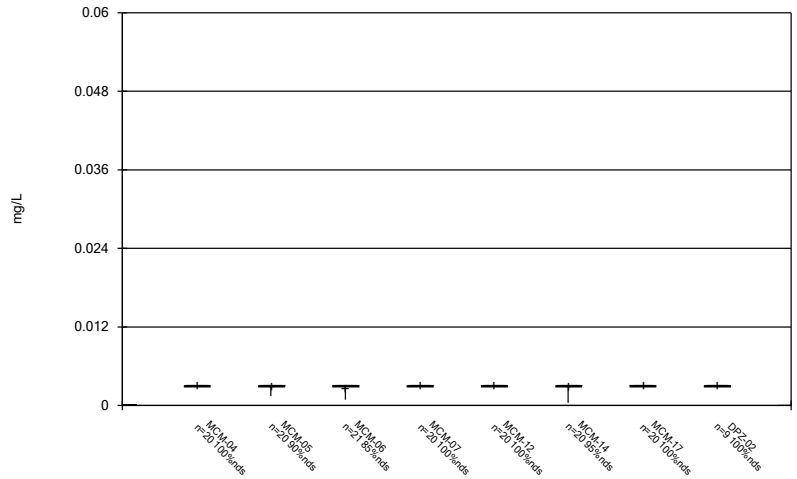
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/10/2025 2:57 PM

Plant McManus Client: Southern Company Data: McManus AP1

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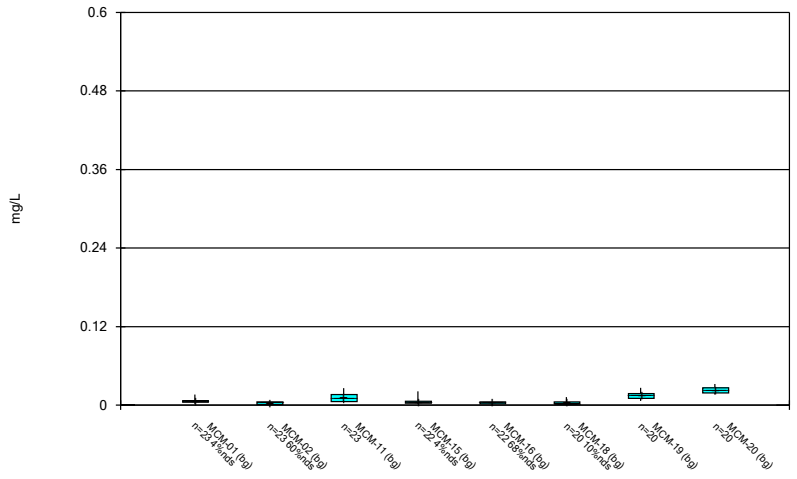
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 11/10/2025 2:57 PM

Plant McManus Client: Southern Company Data: McManus AP1

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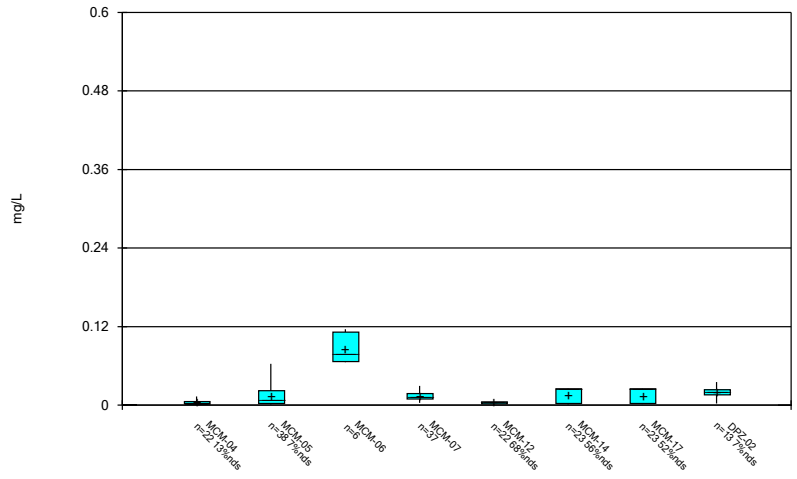
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 11/10/2025 2:57 PM

Plant McManus Client: Southern Company Data: McManus AP1

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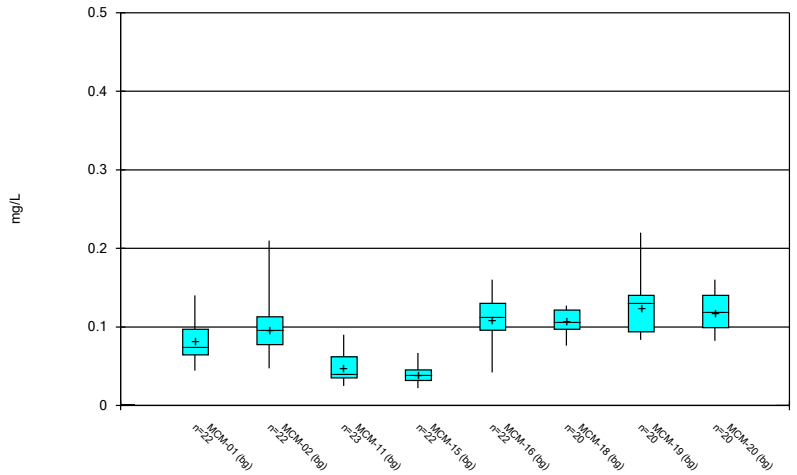
Box & Whiskers Plot



Constituent: Barium Analysis Run 11/10/2025 2:57 PM

Plant McManus Client: Southern Company Data: McManus AP1

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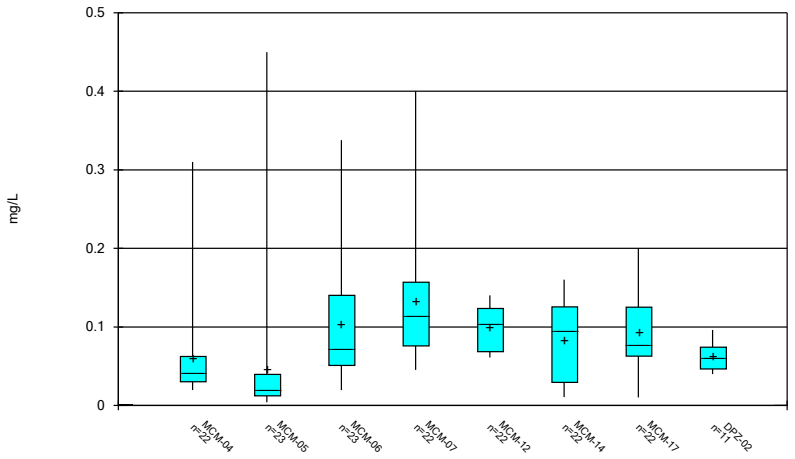
Box & Whiskers Plot



Constituent: Barium Analysis Run 11/10/2025 2:57 PM

Plant McManus Client: Southern Company Data: McManus AP1

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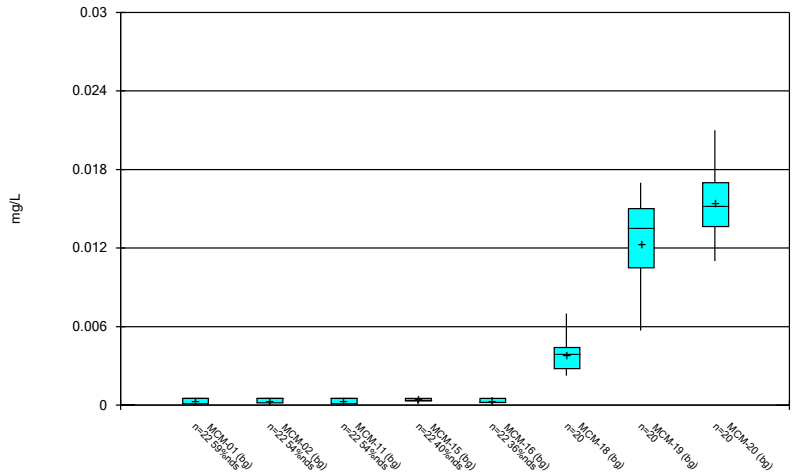
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 11/10/2025 2:57 PM

Plant McManus Client: Southern Company Data: McManus AP1

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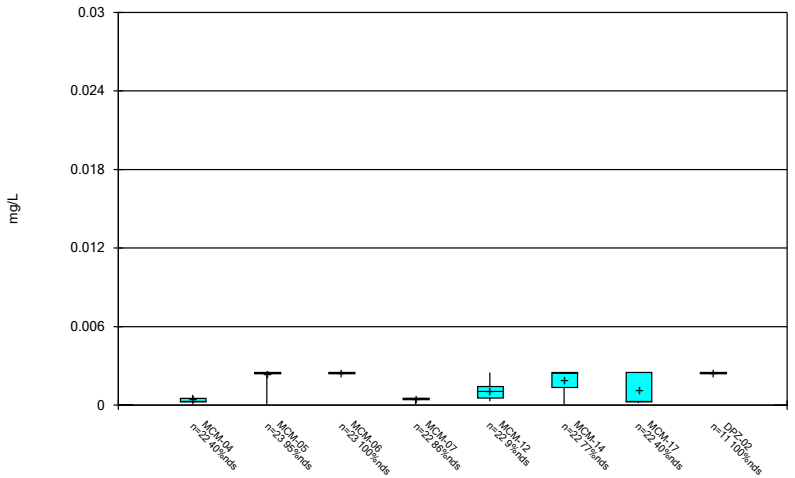
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 11/10/2025 2:57 PM

Plant McManus Client: Southern Company Data: McManus AP1

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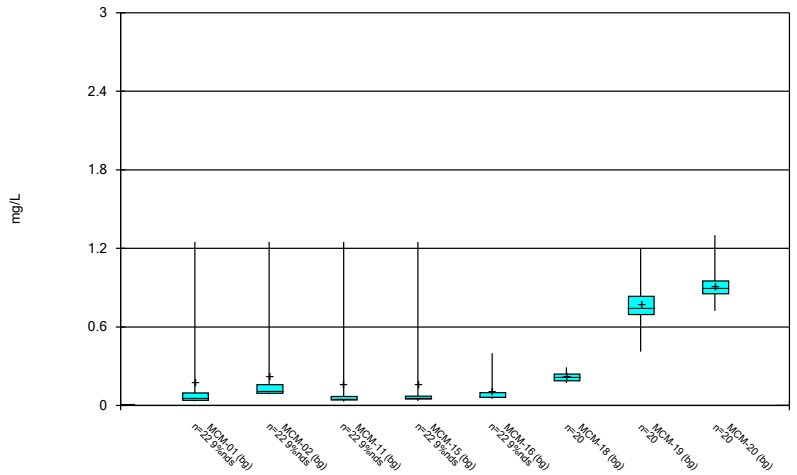
Box & Whiskers Plot



Constituent: Boron Analysis Run 11/10/2025 2:57 PM

Plant McManus Client: Southern Company Data: McManus AP1

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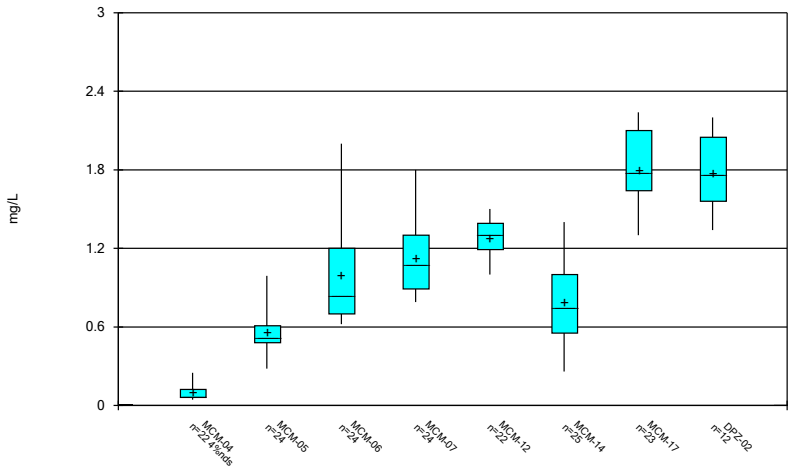
Box & Whiskers Plot



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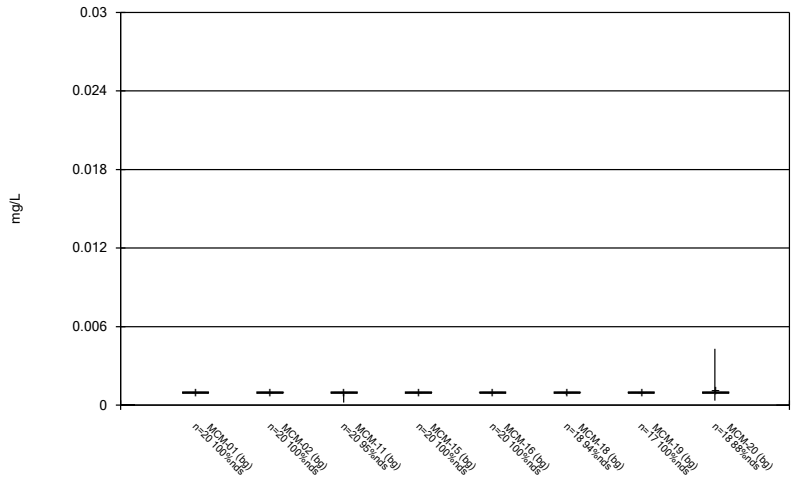
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Cadmium Analysis Run 11/10/2025 2:57 PM

Plant McManus Client: Southern Company Data: McManus AP1

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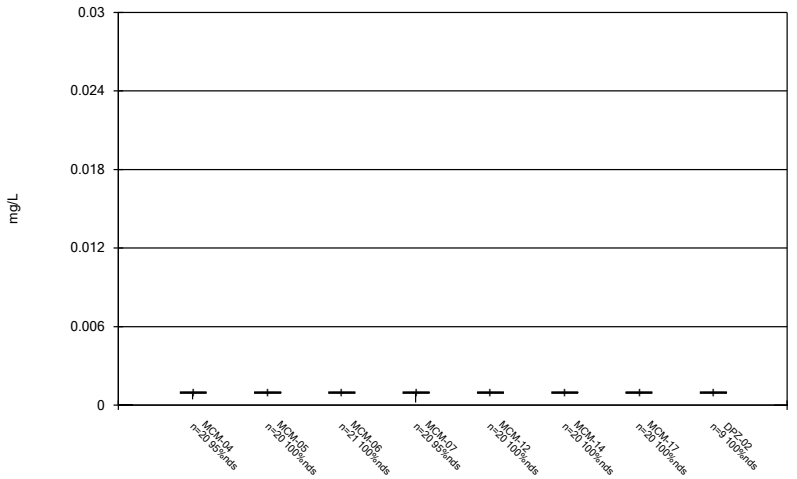
Box & Whiskers Plot



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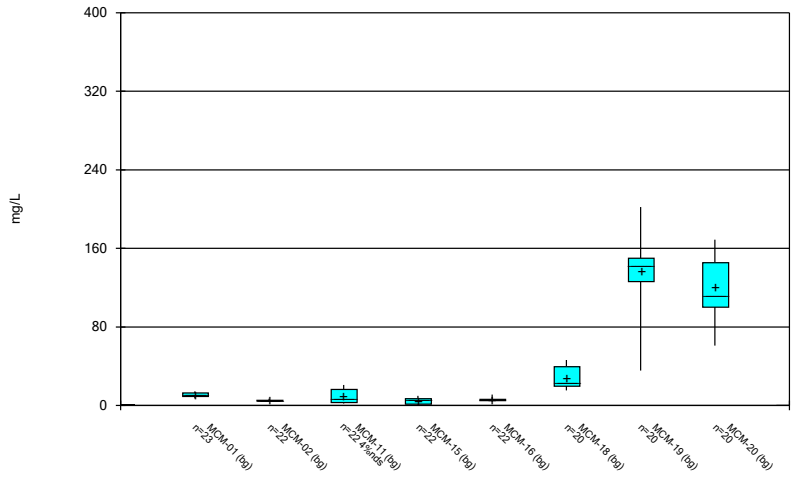
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Calcium Analysis Run 11/10/2025 2:57 PM

Plant McManus Client: Southern Company Data: McManus AP1

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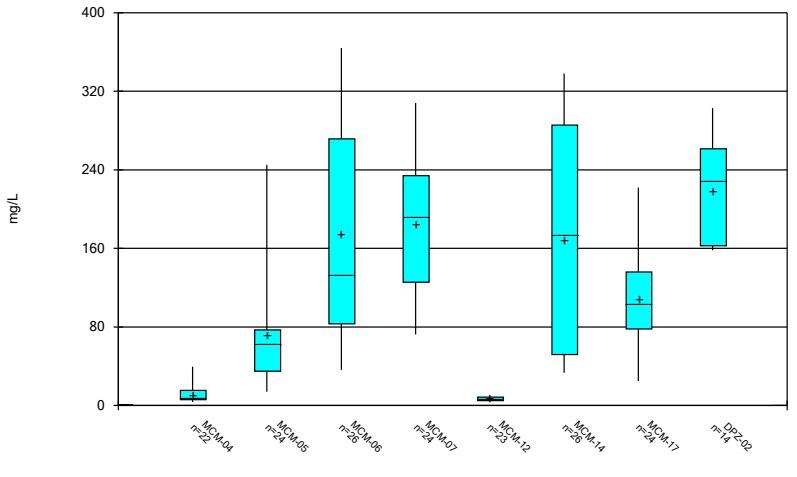
Box & Whiskers Plot

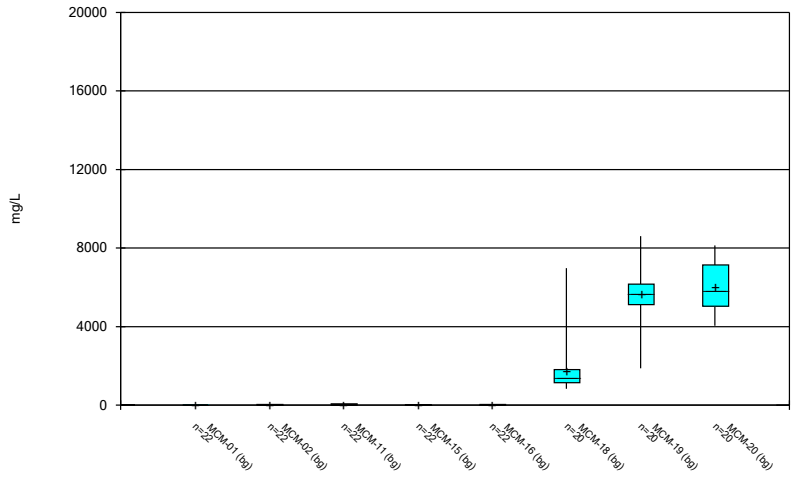


Constituent: Calcium Analysis Run 11/10/2025 2:57 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

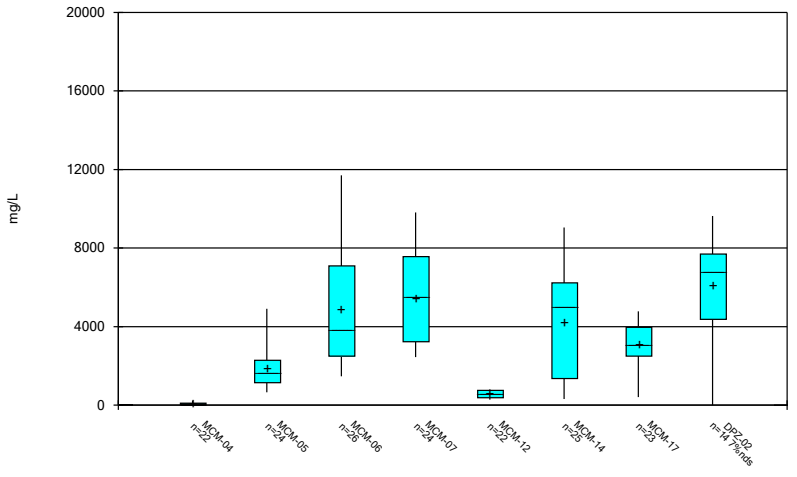


Constituent: Chloride Analysis Run 11/10/2025 2:57 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

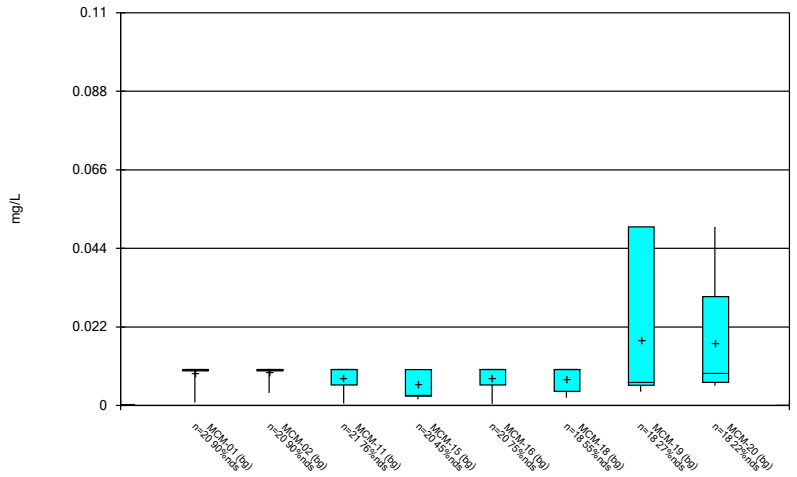


Constituent: Chloride Analysis Run 11/10/2025 2:57 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Chromium Analysis Run 11/10/2025 2:57 PM

Plant McManus Client: Southern Company Data: McManus AP1

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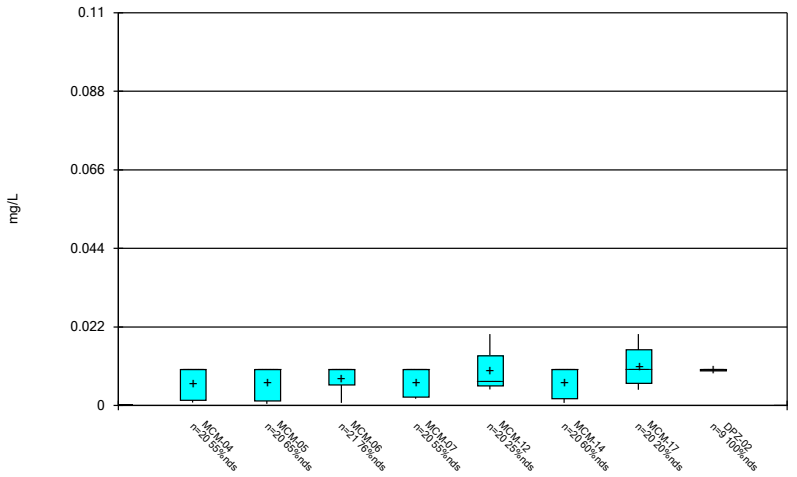
Box & Whiskers Plot

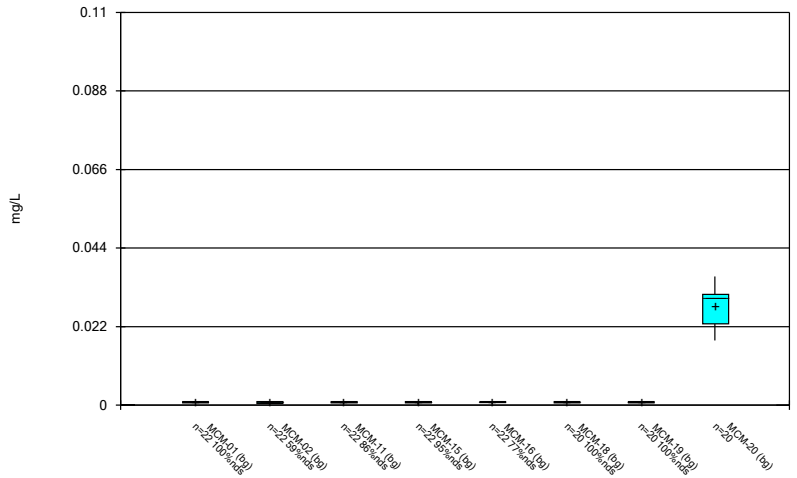


Constituent: Chromium Analysis Run 11/10/2025 2:57 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

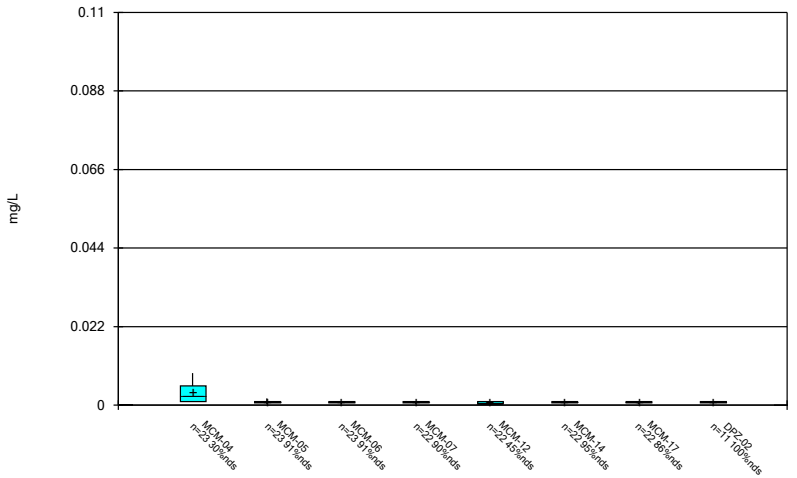


Constituent: Cobalt Analysis Run 11/10/2025 2:58 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

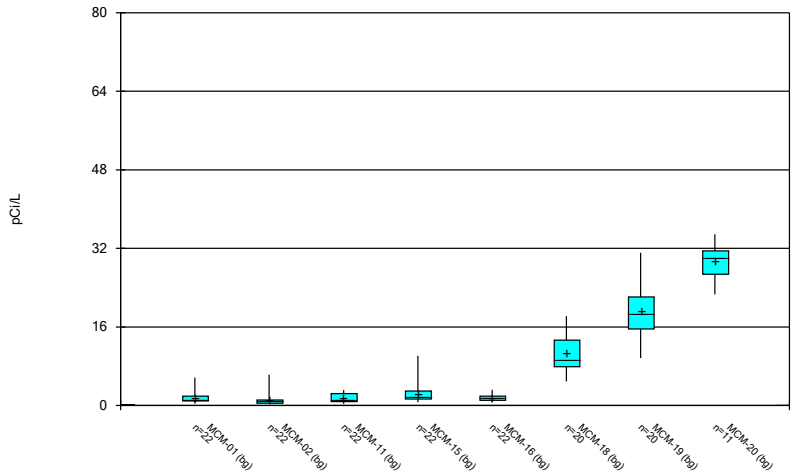


Constituent: Cobalt Analysis Run 11/10/2025 2:58 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

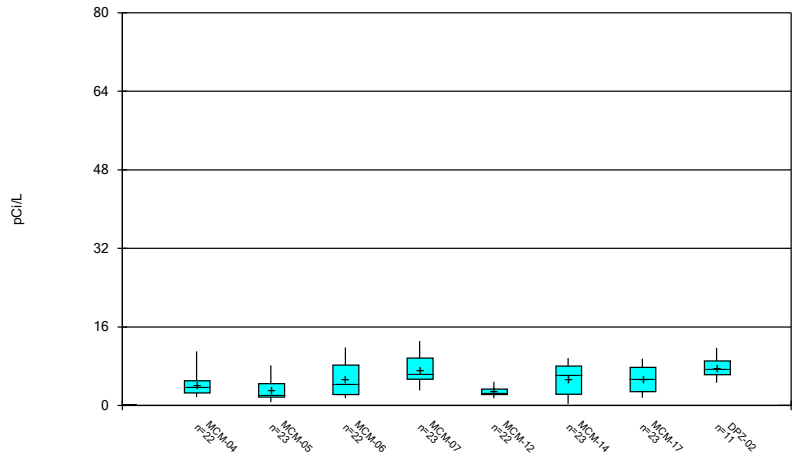


Constituent: Combined Radium 226 + 228 Analysis Run 11/10/2025 2:58 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

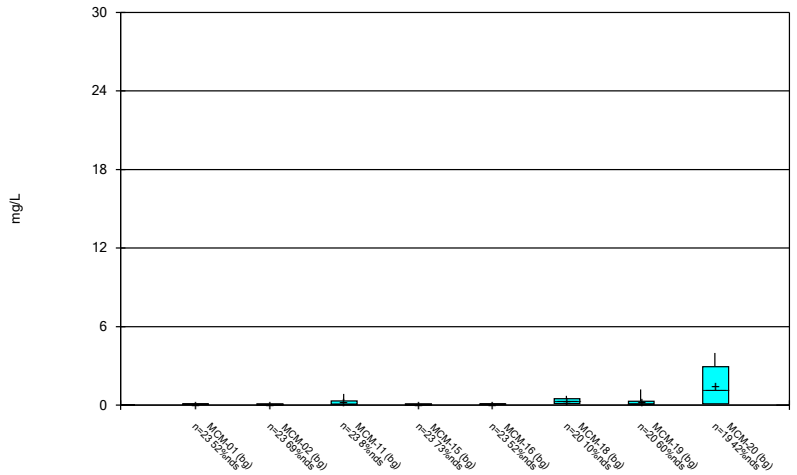


Constituent: Combined Radium 226 + 228 Analysis Run 11/10/2025 2:58 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

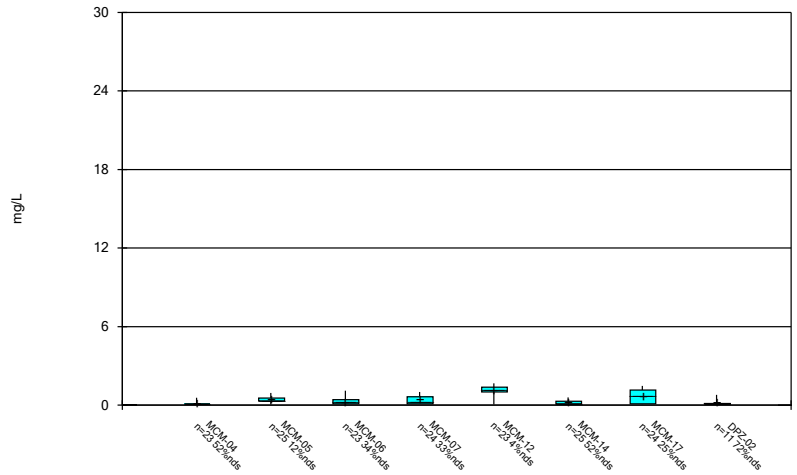


Constituent: Fluoride Analysis Run 11/10/2025 2:58 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

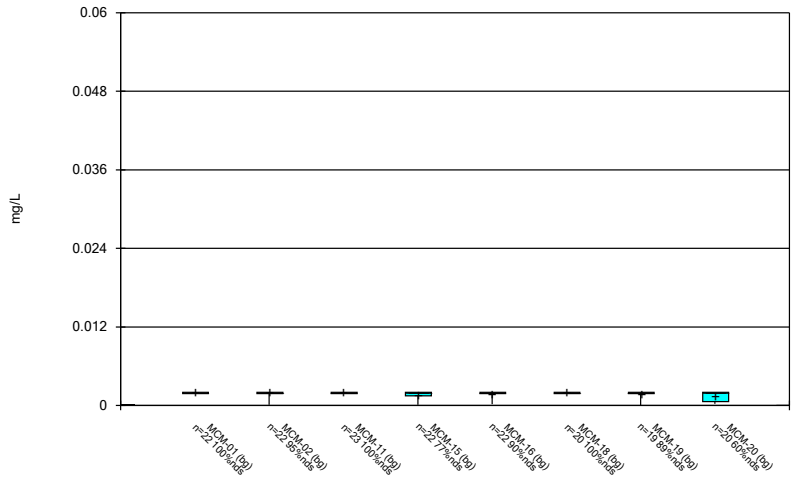


Constituent: Fluoride Analysis Run 11/10/2025 2:58 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

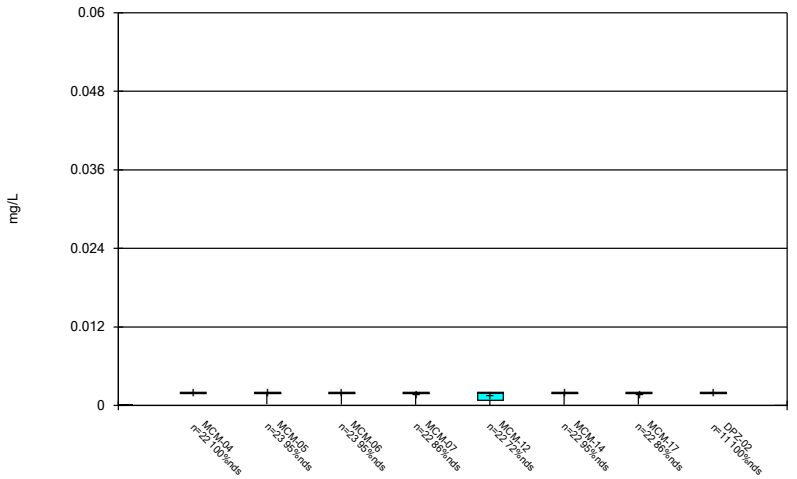


Constituent: Lead Analysis Run 11/10/2025 2:58 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

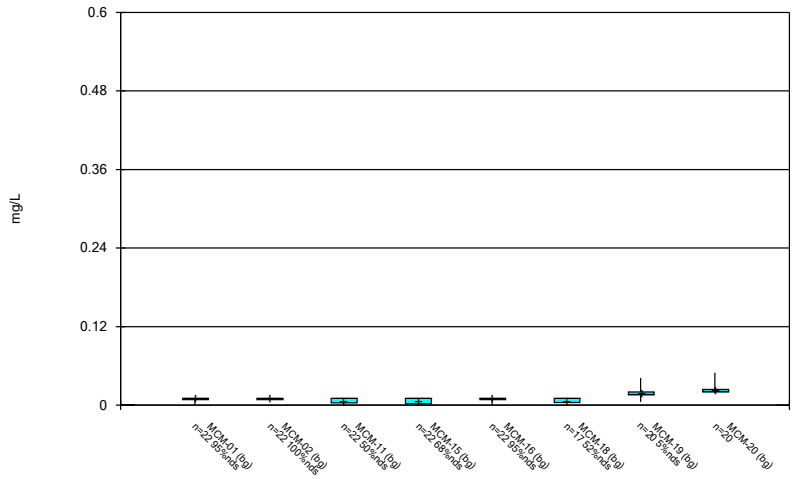


Constituent: Lead Analysis Run 11/10/2025 2:58 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

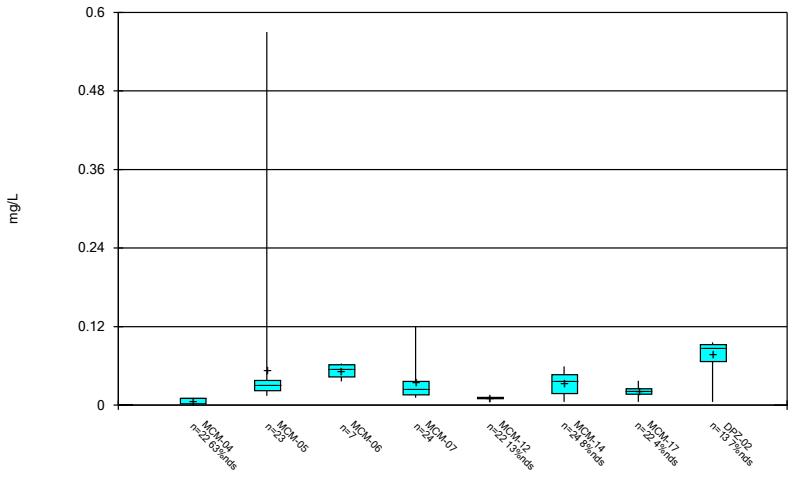


Constituent: Lithium Analysis Run 11/10/2025 2:58 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

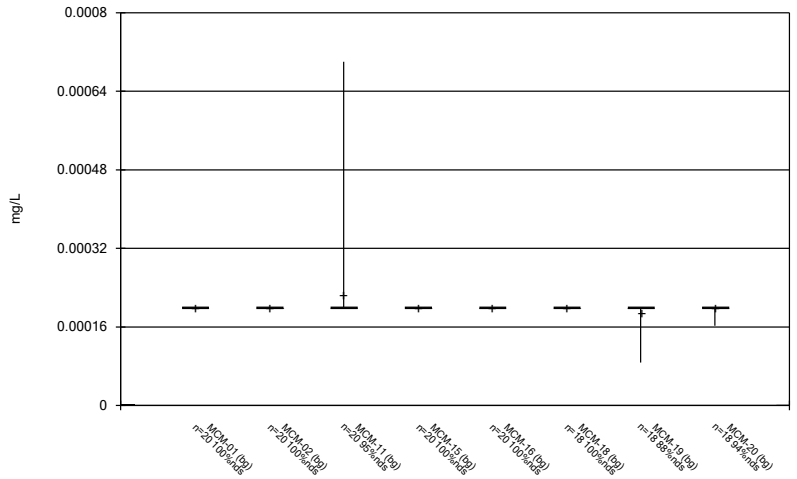


Constituent: Lithium Analysis Run 11/10/2025 2:58 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

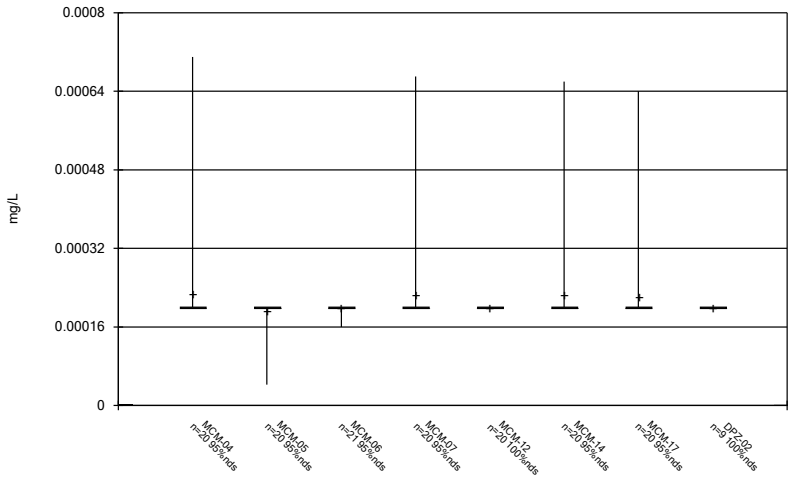


Constituent: Mercury Analysis Run 11/10/2025 2:58 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

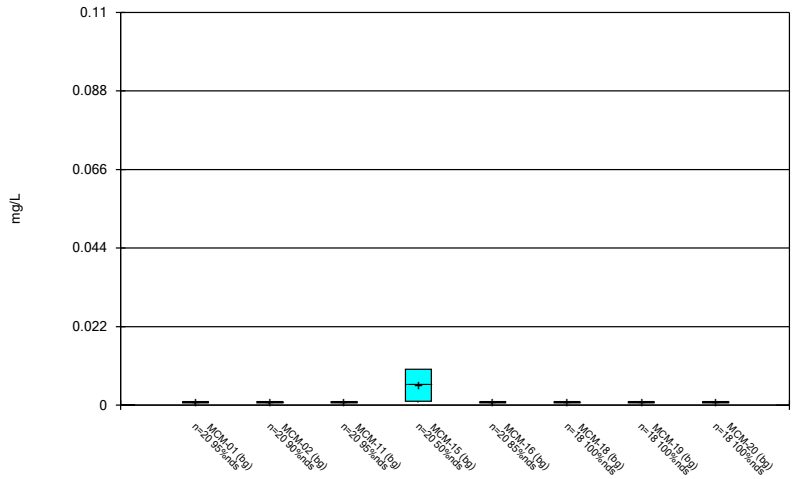


Constituent: Mercury Analysis Run 11/10/2025 2:58 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 11/10/2025 2:58 PM

Plant McManus Client: Southern Company Data: McManus AP1

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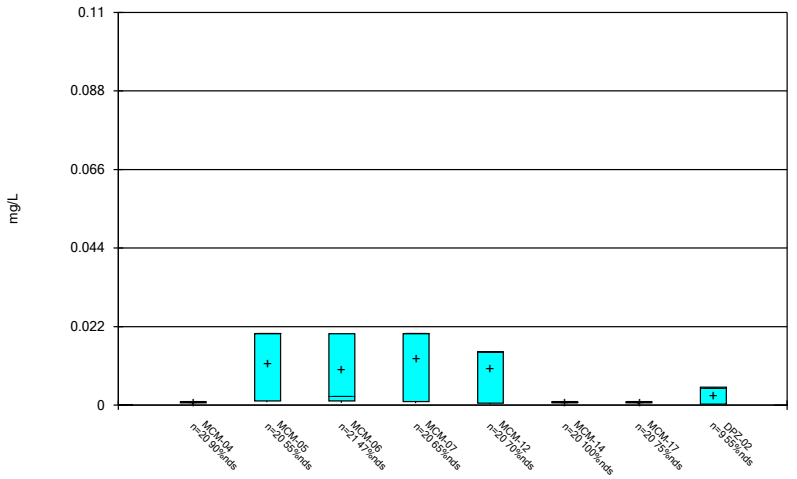
Box & Whiskers Plot

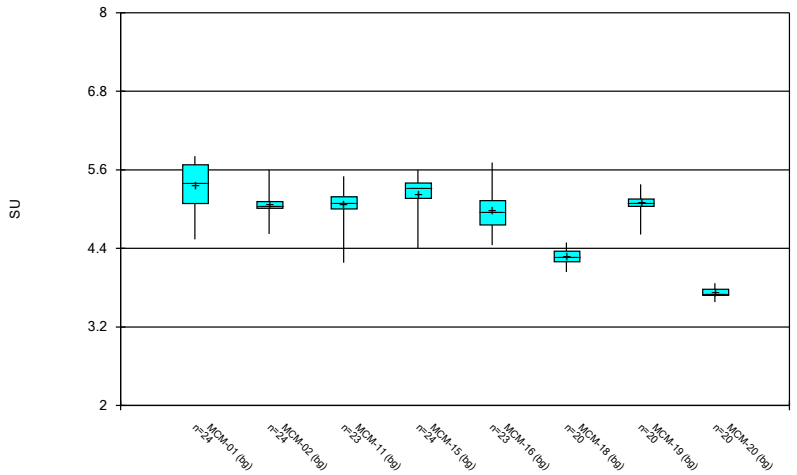


Constituent: Molybdenum Analysis Run 11/10/2025 2:58 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: pH, Field Analysis Run 11/10/2025 2:58 PM
Plant McManus Client: Southern Company Data: McManus AP1

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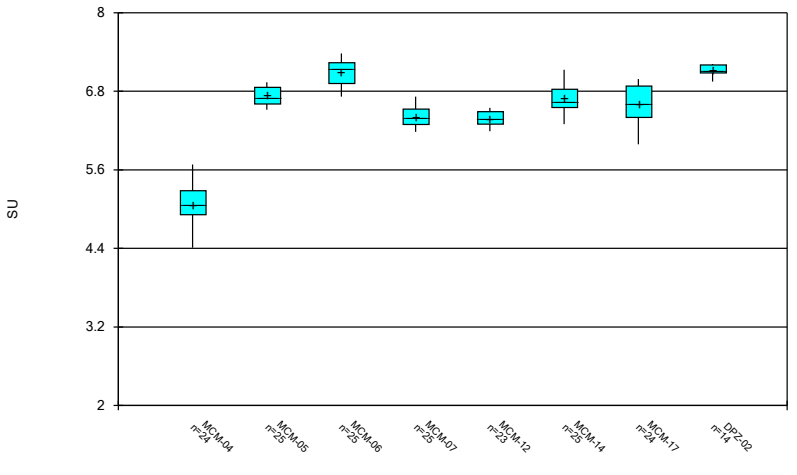
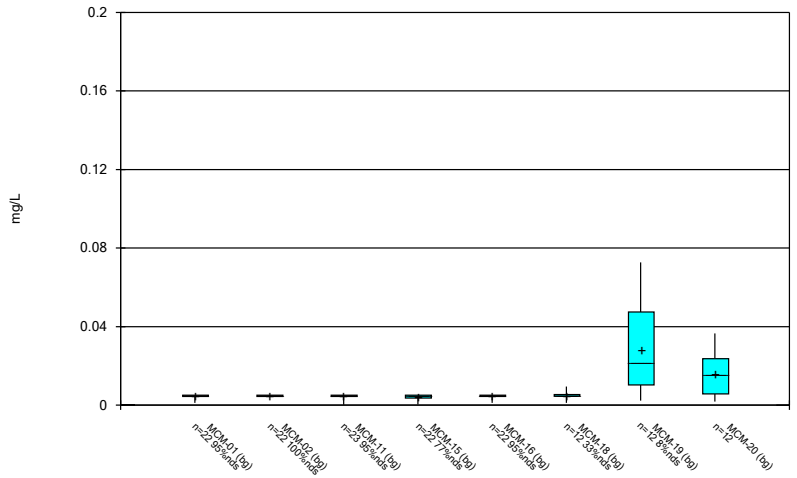
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 11/10/2025 2:58 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Selenium Analysis Run 11/10/2025 2:58 PM
Plant McManus Client: Southern Company Data: McManus AP1

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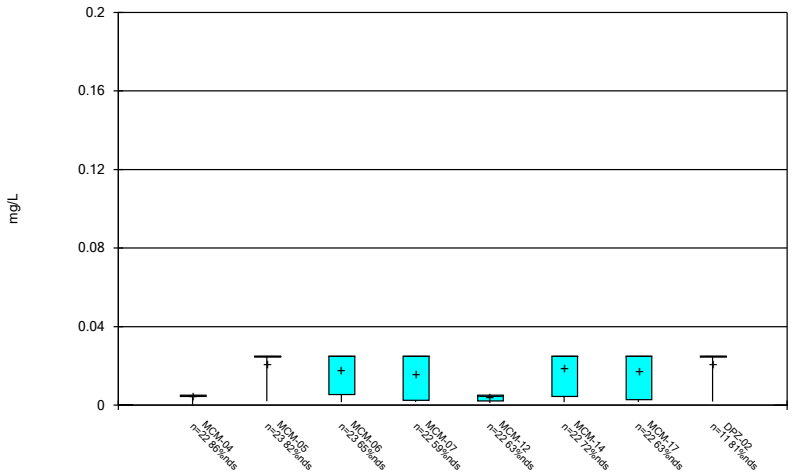
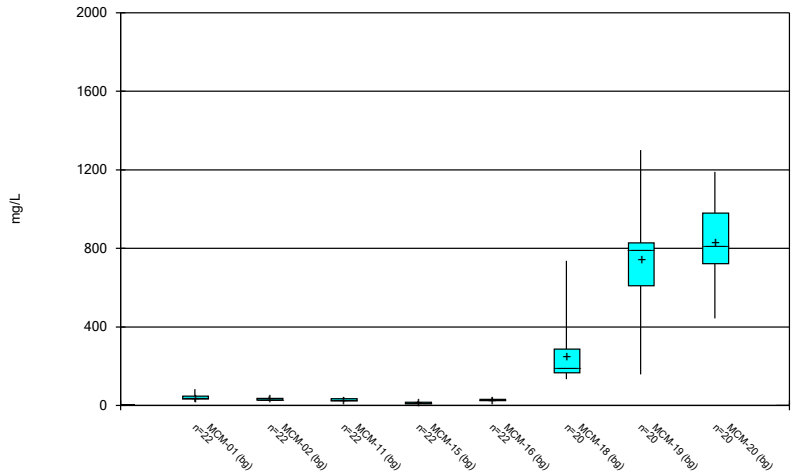
Box & Whiskers Plot



Constituent: Selenium Analysis Run 11/10/2025 2:58 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

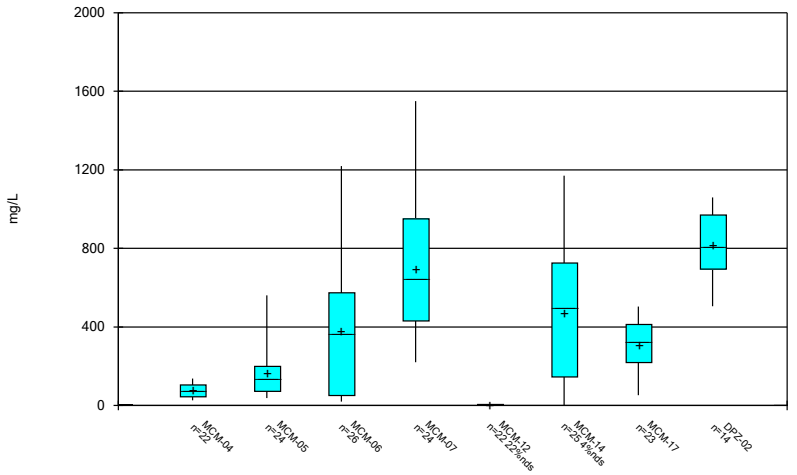


Constituent: Sulfate Analysis Run 11/10/2025 2:58 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

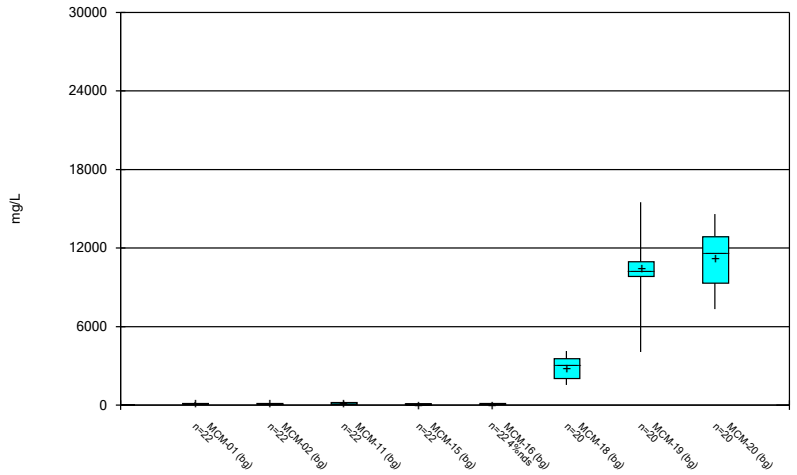


Constituent: Sulfate Analysis Run 11/10/2025 2:58 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

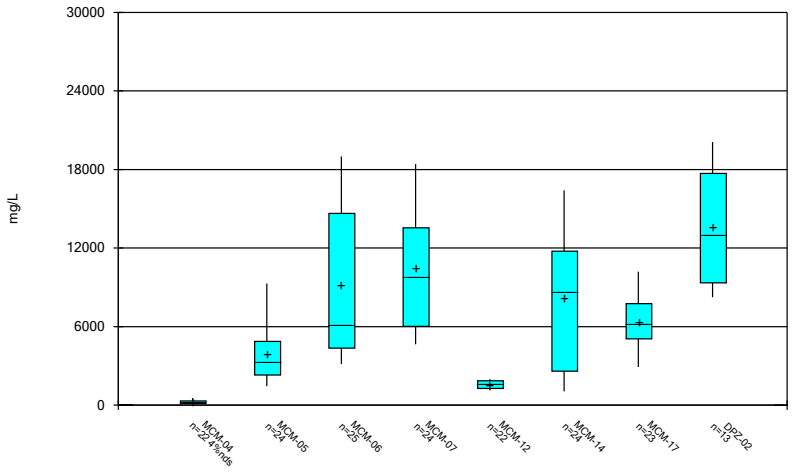


Constituent: TDS Analysis Run 11/10/2025 2:58 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

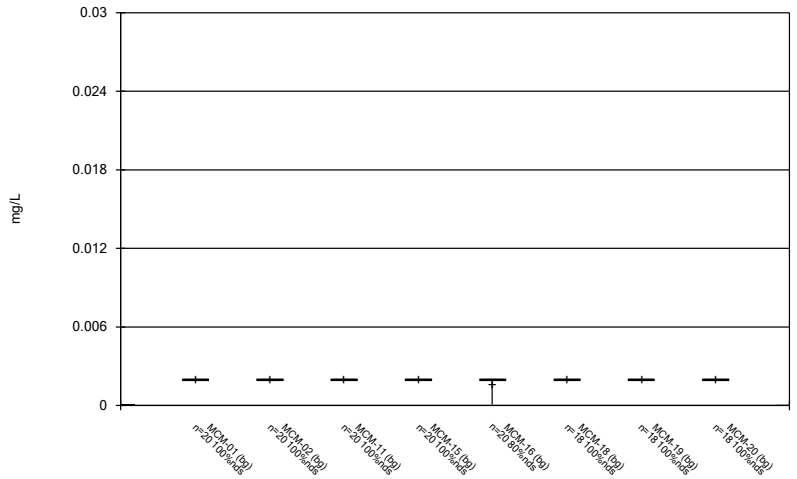


Constituent: TDS Analysis Run 11/10/2025 2:58 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 11/10/2025 2:58 PM

Plant McManus Client: Southern Company Data: McManus AP1

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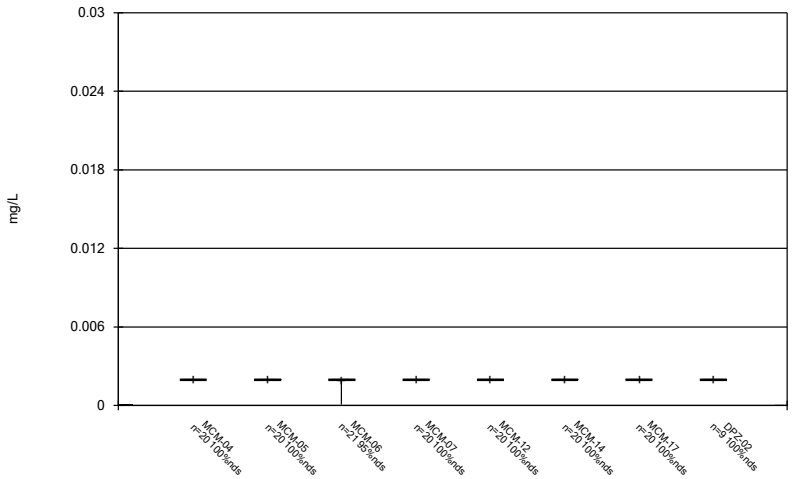
Box & Whiskers Plot



Constituent: Thallium Analysis Run 11/10/2025 2:58 PM

Plant McManus Client: Southern Company Data: McManus AP1

FIGURE C.

Outlier Summary

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:01 PM

	MCM-19 Cadmium (mg/L)	MCM-20 Fluoride (mg/L)	MCM-06 Fluoride (mg/L)	MCM-19 Lead (mg/L)	MCM-18 Lithium (mg/L)
11/7/2018			10.3 (O)		
11/18/2019					<0.1 (O)
1/21/2020					<0.15 (O)
2/4/2020					<0.3 (O)
2/13/2020				<0.025 (O)	
9/20/2022	0.0083 (O)	4.3 (JO)			

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**MCM-12**	**1.3**	**n/a**	**9/9/2025**	**1.32**	**Yes**	**170**	**n/a**	**n/a**	**5.882**	**n/a**	**n/a**	**0.00006855**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**MCM-17**	**1.3**	**n/a**	**9/11/2025**	**2.21**	**Yes**	**170**	**n/a**	**n/a**	**5.882**	**n/a**	**n/a**	**0.00006855**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**MCM-05**	**202**	**n/a**	**9/9/2025**	**245**	**Yes**	**171**	**n/a**	**n/a**	**0.5848**	**n/a**	**n/a**	**0.00006776**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**MCM-06**	**202**	**n/a**	**9/9/2025**	**240**	**Yes**	**171**	**n/a**	**n/a**	**0.5848**	**n/a**	**n/a**	**0.00006776**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-05**	**5.81**	**3.58**	**9/9/2025**	**6.85**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-06**	**5.81**	**3.58**	**9/9/2025**	**6.72**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-07**	**5.81**	**3.58**	**9/11/2025**	**6.44**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-12**	**5.81**	**3.58**	**9/9/2025**	**6.38**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-14**	**5.81**	**3.58**	**9/9/2025**	**6.51**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-17**	**5.81**	**3.58**	**9/11/2025**	**6.42**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	MCM-04	1.3	n/a	9/10/2025	0.0612	No	170	n/a	n/a	5.882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-05	1.3	n/a	9/9/2025	0.669	No	170	n/a	n/a	5.882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-06	1.3	n/a	9/9/2025	0.799	No	170	n/a	n/a	5.882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-07	1.3	n/a	9/11/2025	0.906	No	170	n/a	n/a	5.882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Boron (mg/L)	**MCM-12**	**1.3**	**n/a**	**9/9/2025**	**1.32**	**Yes**	**170**	**n/a**	**n/a**	**5.882**	**n/a**	**n/a**	**0.00006855**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	MCM-14	1.3	n/a	9/9/2025	0.776	No	170	n/a	n/a	5.882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Boron (mg/L)	**MCM-17**	**1.3**	**n/a**	**9/11/2025**	**2.21**	**Yes**	**170**	**n/a**	**n/a**	**5.882**	**n/a**	**n/a**	**0.00006855**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	MCM-04	202	n/a	9/10/2025	4.36	No	171	n/a	n/a	0.5848	n/a	n/a	0.00006776	NP Inter (normality) 1 of 2
Calcium (mg/L)	**MCM-05**	**202**	**n/a**	**9/9/2025**	**245**	**Yes**	**171**	**n/a**	**n/a**	**0.5848**	**n/a**	**n/a**	**0.00006776**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**MCM-06**	**202**	**n/a**	**9/9/2025**	**240**	**Yes**	**171**	**n/a**	**n/a**	**0.5848**	**n/a**	**n/a**	**0.00006776**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	MCM-07	202	n/a	9/11/2025	132	No	171	n/a	n/a	0.5848	n/a	n/a	0.00006776	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-12	202	n/a	9/9/2025	4.43	No	171	n/a	n/a	0.5848	n/a	n/a	0.00006776	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-14	202	n/a	9/9/2025	178	No	171	n/a	n/a	0.5848	n/a	n/a	0.00006776	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-17	202	n/a	9/11/2025	60.7	No	171	n/a	n/a	0.5848	n/a	n/a	0.00006776	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-04	8600	n/a	9/10/2025	21.5	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-05	8600	n/a	9/9/2025	4910	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-06	8600	n/a	9/9/2025	5860	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-07	8600	n/a	9/11/2025	3210	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-12	8600	n/a	9/9/2025	281	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-14	8600	n/a	9/9/2025	4230	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-17	8600	n/a	9/11/2025	2550	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-04	3.98	n/a	9/10/2025	0.1ND	No	174	n/a	n/a	46.55	n/a	n/a	0.00006537	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-05	3.98	n/a	9/9/2025	0.719	No	174	n/a	n/a	46.55	n/a	n/a	0.00006537	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-06	3.98	n/a	9/9/2025	0.272J	No	174	n/a	n/a	46.55	n/a	n/a	0.00006537	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-07	3.98	n/a	9/11/2025	0.589	No	174	n/a	n/a	46.55	n/a	n/a	0.00006537	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-12	3.98	n/a	9/9/2025	1.51	No	174	n/a	n/a	46.55	n/a	n/a	0.00006537	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-14	3.98	n/a	9/9/2025	0.1ND	No	174	n/a	n/a	46.55	n/a	n/a	0.00006537	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-17	3.98	n/a	9/11/2025	0.995	No	174	n/a	n/a	46.55	n/a	n/a	0.00006537	NP Inter (normality) 1 of 2
pH, Field (SU)	MCM-04	5.81	3.58	9/10/2025	5.42	No	178	n/a	n/a	0	n/a	n/a	0.0001244	NP Inter (normality) 1 of 2
pH, Field (SU)	**MCM-05**	**5.81**	**3.58**	**9/9/2025**	**6.85**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-06**	**5.81**	**3.58**	**9/9/2025**	**6.72**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-07**	**5.81**	**3.58**	**9/11/2025**	**6.44**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-12**	**5.81**	**3.58**	**9/9/2025**	**6.38**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-14**	**5.81**	**3.58**	**9/9/2025**	**6.51**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-17**	**5.81**	**3.58**	**9/11/2025**	**6.42**	**Yes**	**178**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001244**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	MCM-04	1300	n/a	9/10/2025	25.8	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-05	1300	n/a	9/9/2025	560	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-06	1300	n/a	9/9/2025	775	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-07	1300	n/a	9/11/2025	457	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-12	1300	n/a	9/9/2025	0.343J	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-14	1300	n/a	9/9/2025	563	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-17	1300	n/a	9/11/2025	286	No	170	n/a	n/a	0	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-04	15500	n/a	9/10/2025	106	No	170	n/a	n/a	0.5882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-05	15500	n/a	9/9/2025	9300	No	170	n/a	n/a	0.5882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-06	15500	n/a	9/9/2025	11700	No	170	n/a	n/a	0.5882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-07	15500	n/a	9/11/2025	5990	No	170	n/a	n/a	0.5882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-12	15500	n/a	9/9/2025	1130	No	170	n/a	n/a	0.5882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-14	15500	n/a	9/9/2025	8750	No	170	n/a	n/a	0.5882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-17	15500	n/a	9/11/2025	5530	No	170	n/a	n/a	0.5882	n/a	n/a	0.00006855	NP Inter (normality) 1 of 2

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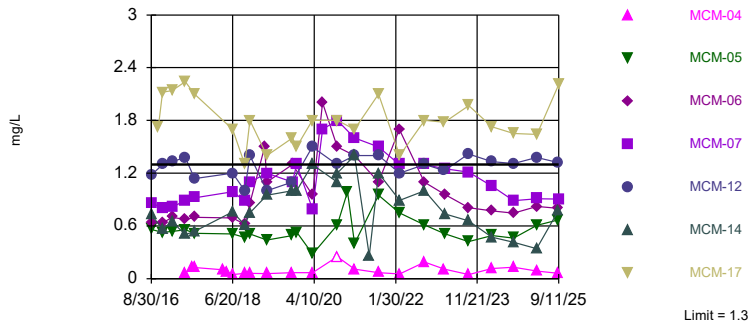
Hollow symbols indicate censored values.

Exceeds Limit: MCM-12, MCM-17

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 170 background values. 5.882% NDs. Annual per-constituent alpha = 0.0009593. Individual comparison alpha = 0.00006855 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 11/10/2025 3:02 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

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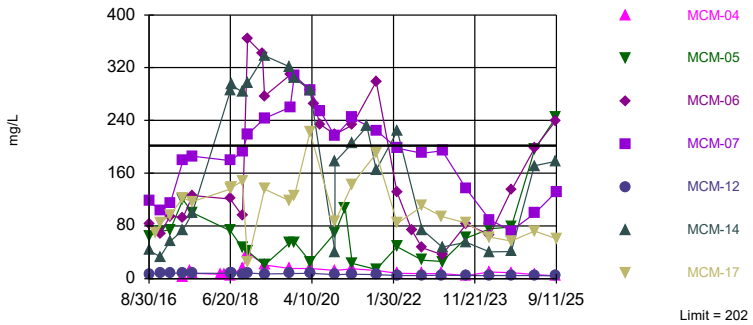
Exceeds Limit: MCM-05, MCM-06

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 171 background values. 0.5848% NDs. Annual per-constituent alpha = 0.0009482. Individual comparison alpha = 0.00006776 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 11/10/2025 3:02 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

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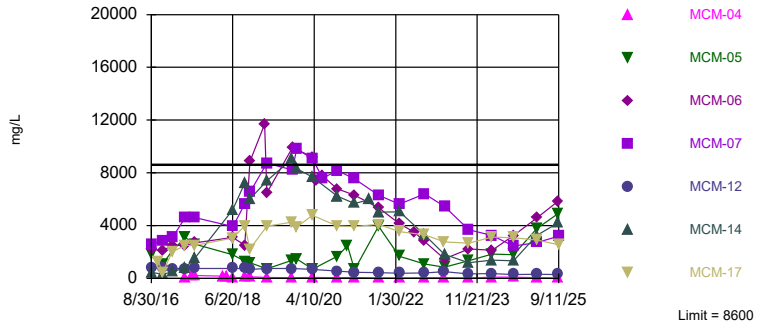
Within Limit

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 170 background values. Annual per-constituent alpha = 0.0009593. Individual comparison alpha = 0.00006855 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 11/10/2025 3:02 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

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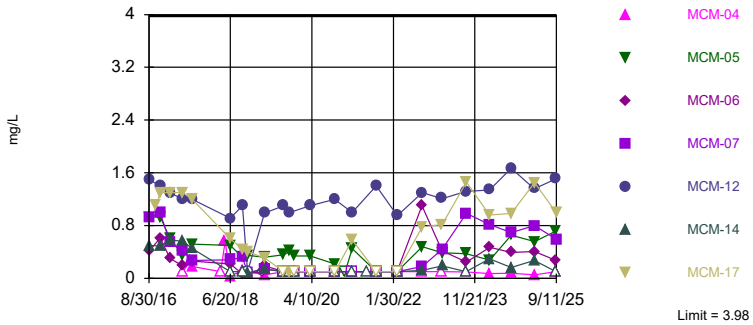
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 174 background values. 46.55% NDs. Annual per-constituent alpha = 0.0009148. Individual comparison alpha = 0.00006537 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 11/10/2025 3:02 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

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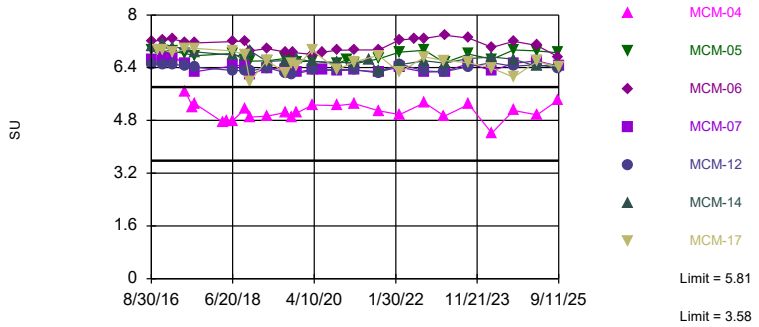
Exceeds Limits: MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, MCM-17

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 178 background values. Annual per-constituent alpha = 0.00174. Individual comparison alpha = 0.0001244 (1 of 2). Comparing 7 points to limit.

Constituent: pH, Field Analysis Run 11/10/2025 3:02 PM View: Appendix III - Interwell PLs
Plant McManus Client: Southern Company Data: McManus AP1

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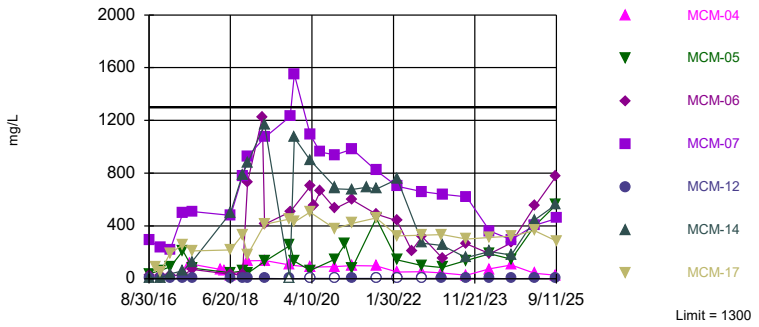
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 170 background values. Annual per-constituent alpha = 0.0009593. Individual comparison alpha = 0.00006855 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 11/10/2025 3:02 PM View: Appendix III - Interwell PLs
Plant McManus Client: Southern Company Data: McManus AP1

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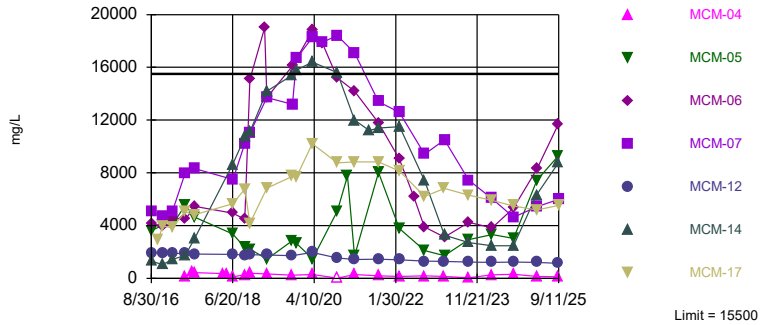
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 170 background values. 0.5882% NDs. Annual per-constituent alpha = 0.0009593. Individual comparison alpha = 0.00006855 (1 of 2). Comparing 7 points to limit.

Constituent: TDS Analysis Run 11/10/2025 3:02 PM View: Appendix III - Interwell PLs
Plant McManus Client: Southern Company Data: McManus AP1

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-12	MCM-16 (bg)	MCM-14	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
8/30/2016	0.0325 (J)	1.18	0.0972 (J)	0.726					
8/31/2016					0.56	0.632	0.863		
10/25/2016								1.73	
11/30/2016	0.0334 (J)	1.3	0.0964	0.565	0.529	0.637	0.804	2.12	
2/15/2017	0.254	1.33	0.398	0.647				2.14	
2/16/2017					0.539	0.698	0.815		
5/31/2017		1.38		0.503				2.24	0.0521
6/1/2017	0.0564		0.0776						
6/2/2017					0.555	0.674	0.891		
8/2/2017									0.0392 (J)
8/15/2017		1.14						2.1	0.0448
8/16/2017	0.0435			0.539					
8/17/2017			0.0853		0.516	0.7	0.922		
4/4/2018									0.046
4/5/2018									
5/8/2018									0.048
5/9/2018									
6/19/2018	0.04 (J)	1.2		0.76				1.7	0.04
6/20/2018			0.079		0.51	0.69			
6/21/2018							0.99		
9/25/2018		1		0.61					0.043
9/26/2018	0.038 (J)		0.072					1.3	
9/27/2018					0.47	0.62	0.88		
11/6/2018				0.75			1.1	1.8	0.046
11/7/2018	0.037 (J)	1.4	0.074		0.51	0.86			
3/6/2019						1.5			
3/24/2019		1		0.95	0.44	1.1	1.2	1.4	
3/25/2019	0.038 (J)		0.067						0.03 (J)
10/15/2019		1.1		1					
10/16/2019	0.036 (J)		0.051		0.49			1.6	0.032 (J)
10/17/2019						1.3	1.1		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					0.53		1.3		
11/21/2019				1				1.5	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	0.064 (J)								
3/27/2020		1.5	0.088 (J)	1.3				1.8	0.058 (J)
3/28/2020					0.28 (J)	0.95	0.79		
6/16/2020						2	1.7		
10/12/2020		1.3							<0.5
10/13/2020	<0.5		<0.5	1.1				1.8	
10/14/2020				1.2		1.5	1.8		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-12	MCM-16 (bg)	MCM-14	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
10/15/2020					0.61				
1/4/2021					0.99				
3/2/2021		1.4 (J)		1.4 (J)					
3/3/2021	<0.5		<0.5					1.7 (J)	<0.5
3/4/2021					0.4 (J)	1.4 (J)	1.6 (J)		
7/1/2021				0.26 (J)					
9/13/2021		1.4		1.2					
9/14/2021	0.079 (J)		0.071 (J)		0.95 (J)	1.1	1.5	2.1	0.06 (J)
3/1/2022					0.75 (J)	1.7			
3/2/2022	0.048 (J)						1.3		0.038 (J)
3/3/2022		1.2	0.057	0.89 (J)				1.4	
9/20/2022						1.1			
9/21/2022	0.35 (J)	1.3	0.12 (J)	1	0.61		1.3	1.8	0.17 (J)
2/28/2023		1.23						1.78	
3/1/2023	0.091		0.0669						0.0461
3/2/2023				0.738	0.511	0.961	1.25		
9/12/2023	0.101	1.42	0.0613	0.657	0.42				
9/13/2023							1.21	1.97	0.0783
9/14/2023						0.807			
3/19/2024		1.33						1.73	
3/20/2024	0.0784			0.474					0.0443
3/21/2024			0.0603		0.491	0.772	1.05		
9/10/2024		1.31						1.65	0.0483
9/11/2024	0.0753		0.0517	0.415	0.463		0.888		
9/12/2024						0.745			
3/17/2025		1.38		0.341					
3/18/2025	0.0642							1.64	0.0522
3/19/2025					0.607	0.822	0.911		
3/20/2025			0.0594						
9/9/2025	0.0522	1.32		0.776	0.669	0.799			
9/10/2025			0.054						0.0854
9/11/2025							0.906	2.21	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-18 (bg)	MCM-19 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	0.161					
6/1/2017		0.0608				
6/2/2017			0.0495			
8/2/2017	0.158	0.137	0.0333 (J)			
8/15/2017						
8/16/2017	0.148					
8/17/2017		0.128	0.0593			
4/4/2018		0.1	0.065			
4/5/2018	0.13					
5/8/2018		0.074	0.062			
5/9/2018	0.12					
6/19/2018	0.13		0.064			
6/20/2018		0.045				
6/21/2018						
9/25/2018						
9/26/2018	0.1		0.06			
9/27/2018		0.06				
11/6/2018		0.06				
11/7/2018	0.1		0.062 (J)			
3/6/2019						
3/24/2019						
3/25/2019	0.091	0.058	0.057			
10/15/2019		0.068	0.046			
10/16/2019	0.085					
10/17/2019						
11/7/2019				1.1	0.27	0.84
11/18/2019					0.29 (J)	
11/19/2019				1.3		0.83
11/20/2019						
11/21/2019						
12/4/2019				0.81		0.68
12/5/2019					0.23	
12/17/2019						0.57
12/18/2019				0.77	0.23	
1/8/2020				0.9		0.73
1/9/2020					0.2	
1/21/2020				0.94	0.24 (J)	0.75
2/4/2020				0.96 (J)	0.24 (J)	0.79 (J)
2/13/2020				0.88	0.22	0.74
3/26/2020						
3/27/2020	0.17 (J)		0.076 (J)	0.94	0.24 (J)	0.96
3/28/2020		0.067 (J)				
6/16/2020						
10/12/2020					0.24 (J)	
10/13/2020	<0.5	<0.5	<0.5	1.1		0.73
10/14/2020						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-18 (bg)	MCM-19 (bg)
10/15/2020						
1/4/2021						
3/2/2021			<0.5			
3/3/2021	<0.5			0.91 (J)	0.21 (J)	0.79 (J)
3/4/2021		0.11 (J)				
7/1/2021						
9/13/2021						
9/14/2021	0.093 (J)	0.07 (J)	0.068 (J)	0.91 (J)	0.2 (J)	1.2
3/1/2022				0.87 (J)		0.41 (J)
3/2/2022	0.086		0.054		0.23 (J)	
3/3/2022		0.053				
9/20/2022				0.9	0.18 (J)	0.77
9/21/2022	0.23 (J)	0.19 (J)	0.14 (J)			
2/28/2023				0.723	0.185	0.707
3/1/2023	0.115	0.108				
3/2/2023			0.0416			
9/12/2023			0.0393			
9/13/2023		0.047		1.02		1.2
9/14/2023	0.102				0.229	
3/19/2024	0.0924				0.185	0.704
3/20/2024		0.116	0.0531			
3/21/2024				0.864		
9/10/2024		0.131				
9/11/2024	0.0875		0.035	0.841	0.172	0.61
9/12/2024						
3/17/2025						
3/18/2025						
3/19/2025				0.751	0.175	0.684
3/20/2025	0.0922	0.0876	0.0644			
9/9/2025			0.0726	0.885	0.19	0.838
9/10/2025	0.091	0.0612				
9/11/2025						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-05	MCM-07	MCM-06	MCM-17	MCM-11 (bg)
8/30/2016	7.3	7.05	42.8	4.02					
8/31/2016					65	119	82.8		
10/25/2016								69.4	
11/30/2016	10.8	8.69	33.2	4.87	71.7	103	68.7	83.9	
2/15/2017	14.3	8.34	56.1	6.61				96.3	
2/16/2017					74	114	94.8		
5/31/2017		8.85	73.6					122	18.6
6/1/2017	12.7 (J)			6.42					
6/2/2017					120	179	92.5		
8/2/2017									18.5
8/15/2017		8.05						117	4.09
8/16/2017	8.7		99.6						
8/17/2017				5.62	100	186	126		
4/4/2018									<25
4/5/2018									
5/8/2018									18.4 (J)
5/9/2018									
6/19/2018	11.6 (J)	8.3	285					136	4.3
6/20/2018				5.7	72.8		121		
6/21/2018						179			
6/28/2018	13	8.9	294					138	
9/25/2018		6.8	283						6.2
9/26/2018	12.8 (J)			5.3				148	
9/27/2018					46.6	193	95.1		
11/6/2018			297			219		24.7	1.8
11/7/2018	11.9	8.5		5.3	41.8		364		
3/6/2019							341		
3/24/2019		7.4	338		20.9 (J)	243	277	136	
3/25/2019	12.6 (J)			5.7					2.5
10/15/2019		7.9	321						
10/16/2019	13.6			4.8	55.2			118	2.2
10/17/2019						260	309		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					55.8	308			
11/21/2019			305					125	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	10.1								
3/27/2020		8.3	286	5.4				222	3.3
3/28/2020					25.8	286	286		
4/23/2020							266		
6/16/2020						254	234		
10/12/2020		6.1							2.8

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-05	MCM-07	MCM-06	MCM-17	MCM-11 (bg)
10/13/2020	9.8		40.9	5.7				86.4	
10/14/2020			177			216	219 (D)		
10/15/2020					69.1				
1/4/2021					107				
3/2/2021		6.5	205						
3/3/2021	14			11.2				143	2.1
3/4/2021					23.4	244	233		
7/1/2021			231						
9/13/2021		6	165						
9/14/2021	9.6			6.5	13.9	225	299	190	14
3/1/2022					48.4		131		
3/2/2022	8.2					198			6.8
3/3/2022		4.6	224	5.4				84	
6/28/2022							73.5		
9/20/2022							47		
9/21/2022	9.2	4.7	74	4.6	28	190		110	7.6
2/28/2023		5.17						94.2	
3/1/2023	7.87			4.74					6.53
3/2/2023			48		25.9	194	36.1		
9/12/2023	10.1	4.98	55.3	4.48	61.5				
9/13/2023						136		84.6	20.7
9/14/2023							83.1		
3/19/2024		4.99						63.2	
3/20/2024	11.3		40.6						9.1
3/21/2024				5.32	75.5	89.1	66.6		
9/10/2024		4.67						57.2	6.36
9/11/2024	9.6		41.3	5.49	78.5	72.5			
9/12/2024							134		
3/17/2025		4.62	171						
3/18/2025	9.39							72.2	3.66
3/19/2025					196	98.9	198		
3/20/2025				6.41					
9/9/2025	7.83	4.43	178		245		240		
9/10/2025				3.98					20.7
9/11/2025						132		60.7	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-18 (bg)	MCM-19 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	5.9					
6/1/2017		3.65				
6/2/2017			2.77			
8/2/2017	4.69	12.4	1.27			
8/15/2017						
8/16/2017	5.25					
8/17/2017		8.17	5.53			
4/4/2018		6.8	6.5			
4/5/2018	5					
5/8/2018		5.7	6.7			
5/9/2018	4.7					
6/19/2018	4.8		7.4			
6/20/2018		4.3				
6/21/2018						
6/28/2018						
9/25/2018						
9/26/2018	4.6		8.5 (J)			
9/27/2018		16.4 (J)				
11/6/2018		39.5				
11/7/2018	4.6		9.8			
3/6/2019						
3/24/2019						
3/25/2019	4.7	20.8 (J)	7.8			
10/15/2019		15.5	6.7			
10/16/2019	4.9					
10/17/2019						
11/7/2019				163	46.2	158
11/18/2019					41.8	
11/19/2019				169		152
11/20/2019						
11/21/2019						
12/4/2019				140		142
12/5/2019					40.5	
12/17/2019						136
12/18/2019				145	42	
1/8/2020				157		147
1/9/2020					37.1	
1/21/2020				152	40.1	167
2/4/2020				139	36.2	142
2/13/2020				146	38.9	148
3/26/2020						
3/27/2020	4.9		5.9	113	23.2	122
3/28/2020		15.5				
4/23/2020						
6/16/2020						
10/12/2020					19.1	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-18 (bg)	MCM-19 (bg)
10/13/2020	3.8	12.5	0.83	128		125
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			1.4			
3/3/2021	4			110	26	123
3/4/2021		15.1				
7/1/2021						
9/13/2021						
9/14/2021	4.2	12.5	6.7	61.1	18.8	93.6
3/1/2022				99.8		35.5
3/2/2022	4.1		7.2		22.3	
3/3/2022		8				
6/28/2022						
9/20/2022				100	20	150
9/21/2022	4.3	7.8	0.83			
2/28/2023				104	22.5	150
3/1/2023	5.26	7.75				
3/2/2023			1.41			
9/12/2023			0.953			
9/13/2023		4.93		108		202
9/14/2023	6.64				21.1	
3/19/2024	4.73				19.7	138
3/20/2024		10.1	4.88			
3/21/2024				102		
9/10/2024		9.06				
9/11/2024	5.36		0.928	87.8	15.3	127
9/12/2024						
3/17/2025						
3/18/2025						
3/19/2025				92.4	17.9	139
3/20/2025	6.94	6.11	4.54			
9/9/2025			6.52	86.6	15.4	143
9/10/2025	6.85	4.36				
9/11/2025						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-16 (bg)	MCM-12	MCM-14	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
8/30/2016	9.7	26	800	450					
8/31/2016					1800	2200	2600		
10/25/2016								1300	
11/30/2016	19	27	760	310	1100	2100	2800	400	
2/15/2017	21	30	740	490				2000	
2/16/2017					2100	2500	3100		
5/31/2017			740	820				2500	98
6/1/2017	12	27							
6/2/2017					3100	2500	4600		
8/2/2017									57
8/15/2017			750					2500	15
8/16/2017	14			1500					
8/17/2017		32			2600	2700	4600		
4/4/2018									69
4/5/2018									
5/8/2018									72.3
5/9/2018									
6/19/2018	24.4		760	5180				3050	17.3
6/20/2018		30			1800	3100			
6/21/2018							3920		
9/25/2018			752	7220					31.3
9/26/2018	23.4	28.4						3965 (D)	
9/27/2018					1300	2510	5660		
11/6/2018				6020			6520	2230	9.8
11/7/2018	21.8	25.1	665		1180	8860			
3/6/2019						11700			
3/24/2019			744	7400	717	6470	8720	3960	
3/25/2019	19.4	21.8							12.9
10/15/2019			744	9050					
10/16/2019	21.4	20			1390			4260	12.2
10/17/2019						9930	8210		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					1480		9810		
11/21/2019				8330				3890	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	23								
3/27/2020		23.6	675	7680				4770	14.5
3/28/2020					693	9190	9070		
4/23/2020						7390			
6/16/2020						7760	7580		
10/12/2020			552						13.9
10/13/2020	13.5	23.3		6230				3980	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-16 (bg)	MCM-12	MCM-14	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
10/14/2020				6230		6780 (D)	8170		
10/15/2020					1660				
1/4/2021					2460				
3/2/2021			459	5680					
3/3/2021	13.6	27.6						3920	9.4
3/4/2021					652	6310	7540		
7/1/2021				5960					
9/13/2021			433	5010					
9/14/2021	16.7	30			3940	5360	6300	4090	62.8
3/1/2022					1680	4150			
3/2/2022	13.4						5630		28.4
3/3/2022		26.5	394	5040				3540	
6/28/2022						3520			
9/20/2022						2800			
9/21/2022	17	17	400	3300	1100		6400	3300	32
2/28/2023			518					2770	
3/1/2023	14.9	14.2							17.7
3/2/2023				1810	853	1470	5450		
9/12/2023	10.7	13.3	326	1180	1330				
9/13/2023							3690	2660	98.5
9/14/2023						2220			
3/19/2024			361					3130	
3/20/2024	10.8			1390					32.1
3/21/2024		11.5			1830	2120	3240		
9/10/2024			297					3080	11.2
9/11/2024	9.34	9.65		1320	1800		2440		
9/12/2024						3240			
3/17/2025			311	3240					
3/18/2025	11.9							2900	4.51
3/19/2025					3790	4590	2720		
3/20/2025		8.86							
9/9/2025	14.4		281	4230	4910	5860			
9/10/2025		5.99							82.5
9/11/2025							3210	2550	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-19 (bg)	MCM-18 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	39					
6/1/2017		22				
6/2/2017			11			
8/2/2017	42	230	3.2			
8/15/2017						
8/16/2017	41					
8/17/2017		210	12			
4/4/2018		156	13.4			
4/5/2018	40.2					
5/8/2018		140	13.2			
5/9/2018	40.6					
6/19/2018	37.7		13.7			
6/20/2018		27.5				
6/21/2018						
9/25/2018						
9/26/2018	33.4		18.5			
9/27/2018		101				
11/6/2018		107				
11/7/2018	30.7		20.2			
3/6/2019						
3/24/2019						
3/25/2019	33.5	78.5	19.7			
10/15/2019		46	17.1			
10/16/2019	33.1					
10/17/2019						
11/7/2019				7880	6170	2360
11/18/2019						6970
11/19/2019				8130	5650	
11/20/2019						
11/21/2019						
12/4/2019				7410	6100	
12/5/2019						2130
12/17/2019					5660	
12/18/2019				7170		2090
1/8/2020				6480	5070	
1/9/2020						1750
1/21/2020				6000	5010	1630
2/4/2020				5700	5030	1760
2/13/2020				7060	6140	1850
3/26/2020						
3/27/2020	32.9		14.1	7110	6870	1450
3/28/2020		71.4				
4/23/2020						
6/16/2020						
10/12/2020						1340
10/13/2020	25.7	54.4	3.8	5980	5260	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-19 (bg)	MCM-18 (bg)
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			4.2			
3/3/2021	20.5			5500	5170	1230
3/4/2021		69.6				
7/1/2021						
9/13/2021						
9/14/2021	21.8	28.5	13.6	5100	7250	1020
3/1/2022				4900	1870	
3/2/2022	20.6		14.3			1420
3/3/2022		12.2				
6/28/2022						
9/20/2022				5700	6200	1200
9/21/2022	23	47	3.3			
2/28/2023				7930	5760	1250
3/1/2023	21.8	45.6				
3/2/2023			4.88			
9/12/2023			3.49			
9/13/2023		10.4		5250	8600	
9/14/2023	21.1					1190
3/19/2024	20				5460	1100
3/20/2024		82.3	13.5			
3/21/2024				4980		
9/10/2024		100				
9/11/2024	16.4		3.34	4420	4880	856
9/12/2024						
3/17/2025						
3/18/2025						
3/19/2025				4320	5330	992
3/20/2025	13.1	45.3	10.6			
9/9/2025			14.2	4040	5800	835
9/10/2025	15.4	21.5				
9/11/2025						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-12	MCM-16 (bg)	MCM-14	MCM-06	MCM-07	MCM-05	MCM-17	MCM-02 (bg)
8/30/2016	0.03 (J)	1.5	0.04 (J)	0.5					
8/31/2016					0.41	0.92	0.93		
10/25/2016								1.1	
11/30/2016	0.04 (J)	1.4	0.18 (J)	0.49	0.61	0.99	0.93	1.3	
2/15/2017	0.007 (J)	1.3	0.02 (J)	0.58				1.3	
2/16/2017					0.3 (J)	0.54	0.6		
5/31/2017		1.2		0.56				1.3	0.01 (J)
6/1/2017	<0.1		0.005 (J)						
6/2/2017					0.19 (J)	0.42	0.34		
8/2/2017									0.14 (J)
8/15/2017		1.2						1.2	
8/16/2017	0.03 (J)			0.45					0.13 (J)
8/17/2017			0.04 (J)		0.26 (J)	0.27 (J)	0.52		
4/4/2018									
4/5/2018									<0.1
5/8/2018									
5/9/2018									<0.1
6/19/2018	<0.1	0.91		<0.1				0.6	0.065 (J)
6/20/2018			0.038 (J)		0.22 (J)		0.5		
6/21/2018						0.28 (J)			
9/25/2018		1.1		<0.1					
9/26/2018	0.12 (J)		<0.1					0.44 (D)	<0.1
9/27/2018					0.068 (J)	0.32	0.32		
11/6/2018				0.084 (J)		0.086 (J)		0.4	
11/7/2018	<0.1	<0.1	<0.1		10.3 (O)		0.35		<0.1
3/6/2019					<0.1				
3/24/2019		0.99		0.14 (J)	0.19 (J)	0.14 (J)	0.32	0.31	
3/25/2019	0.038 (J)		0.041 (J)						0.039 (J)
8/26/2019				<0.1					
8/27/2019	<0.1	1.1	<0.1					<0.1	
8/28/2019					<0.1	<0.1	0.36		<0.1
10/15/2019		1		<0.1					
10/16/2019	0.046 (J)		0.044 (J)				0.41	0.083 (J)	0.044 (J)
10/17/2019					<0.1	<0.1			
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019						<0.1	0.34		
11/21/2019				<0.1				<0.1	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	<0.1								
3/27/2020		1.1	<0.1	<0.1				<0.1	<0.1
3/28/2020					<0.1	<0.1	0.34		
10/12/2020		1.2							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-12	MCM-16 (bg)	MCM-14	MCM-06	MCM-07	MCM-05	MCM-17	MCM-02 (bg)
10/13/2020	<0.1		<0.1	<0.1				<0.1	<0.1
10/14/2020					<0.1	<0.1			
10/15/2020							0.22		
1/4/2021							<0.1		
3/2/2021		1		<0.1					
3/3/2021	<0.1		<0.1					0.58 (J)	<0.1
3/4/2021					<0.1	<0.1	0.45		
7/1/2021				<0.1					
9/13/2021		1.4		<0.1					
9/14/2021	<0.1		<0.1		<0.1	<0.1	<0.1	<0.1	<0.1
3/1/2022					<0.1		<0.1		
3/2/2022	<0.1					<0.1			<0.1
3/3/2022		0.95	<0.1	<0.1				<0.1	
9/20/2022					1.1 (J)				
9/21/2022	<0.1	1.3	<0.1	0.12		0.18	0.48	0.78	<0.1
2/28/2023		1.21						0.815	
3/1/2023	<0.1		0.0397 (J)						<0.1
3/2/2023				0.188 (J)	0.419 (J)	0.44 (J)	0.388		
9/12/2023	<0.1	1.32	<0.1	<0.1			0.374		
9/13/2023						0.982		1.46	
9/14/2023					0.246 (J)				<0.1
3/19/2024		1.34						0.959 (J)	<0.1
3/20/2024	0.0748 (J)			0.294 (J)					
3/21/2024			0.0585 (J)		0.469 (J)	0.814 (J)	0.277		
9/10/2024		1.67						0.986 (J)	
9/11/2024	0.0669 (J)		<0.1	0.164 (J)		0.692	0.654		<0.1
9/12/2024					0.392 (J)				
3/17/2025		1.36		0.273 (J)					
3/18/2025	0.0534 (J)							1.45	
3/19/2025					0.407 (J)	0.798 (J)	0.557		
3/20/2025			<0.1						<0.1
9/9/2025	0.0772 (J)	1.51		<0.1	0.272 (J)		0.719		
9/10/2025			0.0442 (J)						0.0373 (J)
9/11/2025						0.589		0.995	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-11 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-19 (bg)	MCM-18 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	0.85					
6/1/2017		<0.1				
6/2/2017			<0.1			
8/2/2017	0.69	0.27 (J)	0.05 (J)			
8/15/2017	0.29 (J)					
8/16/2017						
8/17/2017		0.18 (J)	<0.1			
4/4/2018	0.32	<0.1	<0.1			
4/5/2018						
5/8/2018	0.63	0.56	<0.1			
5/9/2018						
6/19/2018	0.17 (J)		0.057 (J)			
6/20/2018		0.033 (J)				
6/21/2018						
9/25/2018	0.15 (J)					
9/26/2018			<0.1			
9/27/2018		0.12 (J)				
11/6/2018	<0.1	<0.1				
11/7/2018			<0.1			
3/6/2019						
3/24/2019						
3/25/2019	0.12 (J)	0.055 (J)	0.036 (J)			
8/26/2019						
8/27/2019		<0.1	<0.1			
8/28/2019	0.068 (J)					
10/15/2019		0.095 (J)	0.14 (J)			
10/16/2019	0.1 (J)					
10/17/2019						
11/7/2019				1.4	<0.1	0.49
11/18/2019						0.52
11/19/2019				1.2	0.033 (J)	
11/20/2019						
11/21/2019						
12/4/2019				1.4	0.22 (J)	
12/5/2019						0.5
12/17/2019					<0.1	
12/18/2019				1.5		0.33
1/8/2020				<0.1	<0.1	
1/9/2020						0.12 (J)
1/21/2020				0.53	0.11 (J)	0.13 (J)
2/4/2020				<0.1	<0.1	0.18 (J)
2/13/2020				<0.1	<0.1	0.077 (J)
3/26/2020						
3/27/2020	0.066 (J)		<0.1	<0.1	<0.1	0.06 (J)
3/28/2020		<0.1				
10/12/2020	<0.1					0.34

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-11 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-19 (bg)	MCM-18 (bg)
10/13/2020		<0.1	<0.1	<0.1	<0.1	
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			<0.1			
3/3/2021	0.082 (J)			<0.1	<0.1	0.32
3/4/2021		<0.1				
7/1/2021						
9/13/2021						
9/14/2021	0.18	<0.1	<0.1	<0.1	<0.1	<0.1
3/1/2022				<0.1	<0.1	
3/2/2022	0.097 (J)		<0.1			<0.1
3/3/2022		<0.1				
9/20/2022				4.3 (JO)	<0.1	0.61 (J)
9/21/2022	0.11	<0.1	<0.1			
2/28/2023				3.32	0.38 (J)	0.407 (J)
3/1/2023	0.101	<0.1				
3/2/2023			0.0397 (J)			
9/12/2023			<0.1			
9/13/2023	0.362	0.0941 (J)		3.98	<0.1	
9/14/2023						0.251 (J)
3/19/2024					1.2 (J)	0.702
3/20/2024	0.206	0.0744 (J)	<0.1			
3/21/2024				3.79		
9/10/2024	0.202	0.0749 (J)				
9/11/2024			<0.1	2.83	0.743 (J)	0.267
9/12/2024						
3/17/2025						
3/18/2025	0.0773 (J)					
3/19/2025				2.94	0.831 (J)	0.564
3/20/2025		0.0536 (J)	<0.1			
9/9/2025			0.0538 (J)	3.2	0.778	0.369 (J)
9/10/2025	0.359	<0.1				
9/11/2025						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-12	MCM-16 (bg)	MCM-14	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
8/30/2016	5.66	6.49	5.18	7.04					
8/31/2016					6.93	7.21	6.66		
10/25/2016								6.95	
11/30/2016	5.36	6.5	4.96	7.13	6.77	7.23	6.69	6.95	
2/15/2017	5.25	6.51	5.13	7.02				6.85	
2/16/2017					6.89	7.27	6.72		
5/31/2017		6.45		7				6.96	5.29
6/1/2017	5.59		4.99						
6/2/2017					6.83	7.18	6.53		
8/2/2017									5.19
8/15/2017		6.41						6.99	5.19
8/16/2017	5.58			6.88					
8/17/2017			4.68		6.76	7.15	6.28		
4/4/2018									5.19
4/5/2018									
5/8/2018									5.3
5/9/2018									
6/19/2018	5.51	6.32		6.78				6.91	5.15
6/20/2018			4.77		6.83	7.19			
6/21/2018							6.45		
9/25/2018		6.31		6.75					5.13
9/26/2018	5.32		4.65					6.8	
9/27/2018					6.64	7.21	6.48		
11/6/2018				6.92			6.18	5.99	5.08
11/7/2018	5.72	6.3	4.99		6.6	6.91			
3/24/2019		6.4		6.59	6.61	6.98	6.39	6.62	
3/25/2019	5.75		5.13						5.05
8/26/2019				6.62					
8/27/2019	5.58	6.24	4.88					6.23	
8/28/2019					6.69	6.87	6.35		4.87
10/15/2019		6.19		6.58					
10/16/2019	5.72		4.89		6.64			6.54	5.05
10/17/2019						6.86	6.4		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019	5.77				6.58		6.27		
11/21/2019				6.67				6.44	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	5.45								
3/27/2020		6.33	5.12	6.59				6.93	5.09
3/28/2020					6.6	6.8	6.35		
6/16/2020						6.87	6.33		
10/12/2020		6.35							5

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-12	MCM-16 (bg)	MCM-14	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
10/13/2020	5.69		5.17	6.56				6.34	
10/14/2020						6.93	6.32		
10/15/2020					6.52				
1/4/2021					6.66				
3/2/2021		6.34		6.55					
3/3/2021	5.81		5.71					6.58	5.37
3/4/2021					6.52	6.94	6.33		
7/1/2021				6.64					
9/13/2021		6.24		6.3					
9/14/2021	5.13		4.69		6.67	6.94	6.28	6.77	5.5
3/1/2022					6.87	7.24			
3/2/2022	5.32						6.41		5.11
3/3/2022		6.51	4.88	6.49				6.26	
6/28/2022						7.28			
9/20/2022						7.29			
9/21/2022	4.95	6.3	4.91	6.61	6.93		6.27	6.72	4.97
2/28/2023		6.28						6.62	
3/1/2023	4.91		4.76						4.78
3/2/2023				6.54 (D)	6.55	7.38	6.28		
9/12/2023	4.54	6.43	4.45	6.68	6.81				
9/13/2023							6.53	6.55	4.92
9/14/2023						7.3			
3/19/2024		6.55						6.38	
3/20/2024	5.04			6.72					4.18
3/21/2024			5.1		6.66	7.02	6.31		
9/10/2024		6.44						6.11	5.19
9/11/2024	5.01		5.41	6.66	6.94		6.53		
9/12/2024						7.2			
3/17/2025		6.49		6.44					
3/18/2025	5.14							6.59	5.06
3/19/2025					6.91	7.07	6.61		
3/20/2025			5.52						
9/9/2025	5.01	6.38		6.51	6.85	6.72			
9/10/2025			4.73						5.29
9/11/2025							6.44	6.42	

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-19 (bg)	MCM-20 (bg)	MCM-18 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	5.06					
6/1/2017		5.68				
6/2/2017			5.31			
8/2/2017	5	5.2	5.05			
8/15/2017						
8/16/2017	4.98					
8/17/2017		5.31	5.52			
4/4/2018		4.74	5.45			
4/5/2018	5.02					
5/8/2018		4.78	5.54			
5/9/2018	4.96					
6/19/2018	5.02		5.6			
6/20/2018		4.79				
6/21/2018						
9/25/2018						
9/26/2018	5.06		5.17			
9/27/2018		5.14				
11/6/2018		4.9				
11/7/2018	5.03		5.47			
3/24/2019			5.4			
3/25/2019	5.08	4.93	5.4			
8/26/2019						
8/27/2019		5.05	5.35			
8/28/2019	4.99					
10/15/2019		4.89	5.32			
10/16/2019	4.98					
10/17/2019						
11/7/2019				5.21	3.79	4.25
11/18/2019						4.12
11/19/2019	5.11			5.15	3.78	
11/20/2019		5.03				
11/21/2019						
12/4/2019				5.28	3.87	
12/5/2019						4.17
12/17/2019				4.96		
12/18/2019					3.76	4.2
1/8/2020				5.04	3.77	
1/9/2020						4.19
1/21/2020				5.1	3.73	4.28
2/4/2020				5.15	3.72	4.26
2/13/2020				5.07	3.75	4.2
3/26/2020						
3/27/2020	5.12		5.3	5.14	3.81	4.34
3/28/2020		5.27				
6/16/2020						
10/12/2020						4.29

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-19 (bg)	MCM-20 (bg)	MCM-18 (bg)
10/13/2020	5.03	5.25	5.02	5.04	3.72	
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			5.16			
3/3/2021	5.06			5.1	3.76	4.37
3/4/2021		5.31				
7/1/2021						
9/13/2021						
9/14/2021	5.04	5.09	5.39	5.31	3.72	4.28
3/1/2022				5.38	3.69	
3/2/2022	5.16		5.37			4.33
3/3/2022		4.98				
6/28/2022						
9/20/2022				5.14	3.63	4.47
9/21/2022	5.14	5.34	5.23			
2/28/2023				5.08	3.7 (D)	4.42
3/1/2023	5.1 (D)	4.93				
3/2/2023			4.45			
9/12/2023			4.4			
9/13/2023		5.29		5.05	3.67	
9/14/2023	5.02					4.17
3/19/2024	4.62			4.97		4.42
3/20/2024		4.41	5.23			
3/21/2024					3.67	
9/10/2024		5.1				
9/11/2024	5.43		4.99	4.61	3.58	4.04
9/12/2024						
3/17/2025						
3/18/2025						
3/19/2025				5.16	3.83	4.49
3/20/2025	5.6	4.97	5.34			
9/9/2025			5.33	4.94	3.67	4.29
9/10/2025	5.3	5.42				
9/11/2025						

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-16 (bg)	MCM-12	MCM-14	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
8/30/2016	17	24	4.3	6.4					
8/31/2016					37	21	290		
10/25/2016								84	
11/30/2016	33	26	7.6	4.5	63	19	240	52	
2/15/2017	83	30	3	37				190	
2/16/2017					90	22	220		
5/31/2017			2.5	61				260	40
6/1/2017	51	24							
6/2/2017					210	28	500		
8/2/2017									34
8/15/2017			3.2					210	24
8/16/2017	36			130					
8/17/2017		26			80	69	510		
4/4/2018									33.9
4/5/2018									
5/8/2018									35.7
5/9/2018									
6/19/2018	50.3		1.6	498				218	23.7
6/20/2018		31.2			46 (J)	33			
6/21/2018							481		
9/25/2018			1	790					25.6
9/26/2018	54.1	36.8						333 (D)	
9/27/2018					58.5 (J)	29.4	777		
11/6/2018				875			926	182	25.2
11/7/2018	45.6	35	0.41 (J)		41.3 (J)	734			
3/6/2019						1220 (J)			
3/24/2019			1.5	1170	131	413	1070	413	
3/25/2019	43	40.1							24.9
10/15/2019			0.54 (J)	<5					
10/16/2019	31.9	28.5			252			453	17.4
10/17/2019						507	1230		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					132		1550		
11/21/2019				1070				428	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	36.2								
3/27/2020		31.2	<5	899				504	23.4
3/28/2020					63.8	701	1090		
4/23/2020						552			
6/16/2020						663	961		
10/12/2020			<5						19.3
10/13/2020	32.3	26.8		695				378	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-16 (bg)	MCM-12	MCM-14	MCM-05	MCM-06	MCM-07	MCM-17	MCM-11 (bg)
10/14/2020				682		531 (D)	938		
10/15/2020					147				
1/4/2021					262				
3/2/2021			1.2	677					
3/3/2021	33.8	30.5						420	19.9
3/4/2021					82.2	596	982		
7/1/2021				693					
9/13/2021			<5	680					
9/14/2021	34.2	24.4			459	490	819	460	33.1
3/1/2022					143	440			
3/2/2022	30.8						702		19.5
3/3/2022		20.4	<5	754				324	
6/28/2022						213			
9/20/2022						320			
9/21/2022	39	24	<5	270	100		660	330	23
2/28/2023			1.33					334	
3/1/2023	45.3	25.8							21.4
3/2/2023				252	84.2	157	640		
9/12/2023	47.5	25.2	1.18	160	139				
9/13/2023							620	300	42
9/14/2023						263			
3/19/2024			1.7					312	
3/20/2024	45.4			207					34.5
3/21/2024		29.4			189	189	360		
9/10/2024			0.462					323	24.3
9/11/2024	42.1	23.2		180	148		296		
9/12/2024						271			
3/17/2025			1.83	443					
3/18/2025	30.4							363	26
3/19/2025					399	549	404		
3/20/2025		21.9							
9/9/2025	24.9		0.343 (J)	563	560	775			
9/10/2025		24.7							41
9/11/2025							457	286	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-19 (bg)	MCM-18 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	46					
6/1/2017		42				
6/2/2017			13			
8/2/2017	43	120	14			
8/15/2017						
8/16/2017	41					
8/17/2017		110	14			
4/4/2018		70.6	13.4			
4/5/2018	33.4					
5/8/2018		61.4	14.8			
5/9/2018	36					
6/19/2018	35.5		15.5			
6/20/2018		25.3				
6/21/2018						
9/25/2018						
9/26/2018	39.6		23			
9/27/2018		63.4				
11/6/2018		136				
11/7/2018	35.8		22.2			
3/6/2019						
3/24/2019						
3/25/2019	34.2	137	22.4			
10/15/2019		105	17.9			
10/16/2019	24.4					
10/17/2019						
11/7/2019				1010	832	379
11/18/2019						737
11/19/2019				1140	795	
11/20/2019						
11/21/2019						
12/4/2019				1020	810	
12/5/2019						351
12/17/2019					535	
12/18/2019				444 (J)		274
1/8/2020				747	603	
1/9/2020						254
1/21/2020				798	611	254
2/4/2020				1120	599	432
2/13/2020				833	761	300
3/26/2020						
3/27/2020	28.6		14.6	700	836	219
3/28/2020		86.6				
4/23/2020						
6/16/2020						
10/12/2020						191
10/13/2020	27.6	92.3	7.6	638	609	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-19 (bg)	MCM-18 (bg)
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			8			
3/3/2021	27.6			743	708	171
3/4/2021		99.1				
7/1/2021						
9/13/2021						
9/14/2021	30.4	96.2	16.7	659	995	134
3/1/2022				543	158	
3/2/2022	25.7		16			186
3/3/2022		50.6				
6/28/2022						
9/20/2022				750	740	160
9/21/2022	29	52	6.3			
2/28/2023				950	820	186
3/1/2023	27.4	44.2				
3/2/2023			8.12			
9/12/2023			6.48			
9/13/2023		27.1		832	1300	
9/14/2023	28.8					165
3/19/2024	28				810	167
3/20/2024		73.7	12.3			
3/21/2024				1190		
9/10/2024		103				
9/11/2024	26.2		5.75	852	781	149
9/12/2024						
3/17/2025						
3/18/2025						
3/19/2025				920	843	179
3/20/2025	24.3	41.8	11.5			
9/9/2025			14.3	784	824	140
9/10/2025	23.9	25.8				
9/11/2025						

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-06	MCM-05	MCM-07	MCM-17	MCM-11 (bg)
8/30/2016	86	1910	1310	99					
8/31/2016					4160	3620	5100		
10/25/2016								2900	
11/30/2016	131	1910	1050	111	3950	4030	4680	3970	
2/15/2017	212	1870	1440	170				3820	
2/16/2017					4600	4080	5080		
5/31/2017		1920	1740					5050	257
6/1/2017	103			98					
6/2/2017					4470	5560	8000		
8/2/2017									183
8/15/2017		1840						4820	90
8/16/2017	65		3010						
8/17/2017				84	5450	4620	8320		
4/4/2018									197
4/5/2018									
5/8/2018									225
5/9/2018									
6/19/2018	142	1820	8630					5640	112
6/20/2018				123	4940	3370			
6/21/2018							7500		
9/25/2018		1760	10700						137
9/26/2018	133			117				6770 (D)	
9/27/2018					4480	2360	10200		
11/6/2018			11100				11000	4160	89
11/7/2018	121	1800		120	15100	2230			
3/6/2019					19000				
3/24/2019		1770	14200		13700	1450	13700	6840	
3/25/2019	116			101					74
10/15/2019		1730	15400						
10/16/2019	104			95		2860		7740	82
10/17/2019					16100		13200		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019						2640	16700		
11/21/2019			15800					7720	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	114								
3/27/2020		1970	16400	110				10200	87
3/28/2020					18800	1470	18300		
6/16/2020					17800		17900		
10/12/2020		1560							94
10/13/2020	113		15600	115				8750	
10/14/2020					15200		18400		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-12	MCM-14	MCM-16 (bg)	MCM-06	MCM-05	MCM-07	MCM-17	MCM-11 (bg)
10/15/2020						5100			
1/4/2021						7750			
3/2/2021		1430	12000						
3/3/2021	99			122				8830	66
3/4/2021					14200	1700	17100		
7/1/2021			11200						
9/13/2021		1450	11400						
9/14/2021	66			<25	11800	8020	13400	8820	191
3/1/2022					9040	3780			
3/2/2022	97						12600		124
3/3/2022		1400	11500	104				8120	
6/28/2022					6140				
9/20/2022					3900				
9/21/2022	100	1300	7400	78		2100	9400	6200	110
2/28/2023		1290						6810	
3/1/2023	78			56					67
3/2/2023			3280		3120	1710	10500		
9/12/2023	80	1230	2720	42		2940			
9/13/2023							7440	6310	274
9/14/2023					4240				
3/19/2024		1210						5920	
3/20/2024	84		2480						137
3/21/2024				51	3820	3320	6050		
9/10/2024		1230						5490	79
9/11/2024	70		2480	54		3020	4640		
9/12/2024					5340				
3/17/2025		1220	6320						
3/18/2025	86							5200	70
3/19/2025					8300	7440	5420		
3/20/2025				61					
9/9/2025	129	1130	8750		11700	9300			
9/10/2025				54					282
9/11/2025							5990	5530	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-19 (bg)	MCM-18 (bg)	MCM-20 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	123					
6/1/2017		97				
6/2/2017			69			
8/2/2017	136	538	35			
8/15/2017						
8/16/2017	124					
8/17/2017		445	51			
4/4/2018		365	90			
4/5/2018	128					
5/8/2018		304	89			
5/9/2018	127					
6/19/2018	143		110			
6/20/2018		114				
6/21/2018						
9/25/2018						
9/26/2018	132		124			
9/27/2018		255				
11/6/2018		388				
11/7/2018	134		125			
3/6/2019						
3/24/2019						
3/25/2019	111	327	98			
10/15/2019		237	107			
10/16/2019	96					
10/17/2019						
11/7/2019				10900	4140	13500
11/18/2019					4030	
11/19/2019				10000		13300
11/20/2019						
11/21/2019						
12/4/2019				11000		13200
12/5/2019					3840	
12/17/2019				9860		
12/18/2019					3880	12500
1/8/2020				9760		12300
1/9/2020					3520	
1/21/2020				10100	3280	12000
2/4/2020				10600	3220	12300
2/13/2020				10900	3580	12400
3/26/2020						
3/27/2020	119		110	14300	3090	14600
3/28/2020		284				
6/16/2020						
10/12/2020					2920	
10/13/2020	118	<25	63	6600		13900
10/14/2020						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 11/10/2025 3:04 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-19 (bg)	MCM-18 (bg)	MCM-20 (bg)
10/15/2020						
1/4/2021						
3/2/2021			40			
3/3/2021	84			11000	2620	11400
3/4/2021		285				
7/1/2021						
9/13/2021						
9/14/2021	76	193	96	14600	2190	10300
3/1/2022				4050		10500
3/2/2022	94		103		3100	
3/3/2022		146				
6/28/2022						
9/20/2022				10000	2000	8600
9/21/2022	90	180	38			
2/28/2023				10400	2090	8720
3/1/2023	73	142				
3/2/2023			35			
9/12/2023			20			
9/13/2023		51		15500		10300
9/14/2023	76				2040	
3/19/2024	50			9800	1960	
3/20/2024		255	65			
3/21/2024						7330
9/10/2024		316				
9/11/2024	64		28	9180	1530	8630
9/12/2024						
3/17/2025						
3/18/2025						
3/19/2025				10100	1930	9900
3/20/2025	69	152	63			
9/9/2025			107	10900	1640	8360
9/10/2025	85	106				
9/11/2025						

FIGURE E.

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	**MCM-16 (bg)**	**-0.004259**	**-112**	**-92**	**Yes**	**22**	**9.091**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MCM-18 (bg)**	**-0.01183**	**-109**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**MCM-18 (bg)**	**-5.143**	**-146**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**MCM-20 (bg)**	**-12.57**	**-136**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-02 (bg)**	**0.02723**	**110**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-20 (bg)**	**-0.02641**	**-105**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-14**	**-0.05482**	**-169**	**-111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-17**	**-0.05885**	**-114**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:09 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	MCM-01 (bg)	0.003402	65	92	No	22	9.091	n/a	0.01	NP
Boron (mg/L)	MCM-02 (bg)	-0.006468	-81	-92	No	22	9.091	n/a	0.01	NP
Boron (mg/L)	MCM-11 (bg)	0.001888	61	92	No	22	9.091	n/a	0.01	NP
Boron (mg/L)	MCM-15 (bg)	0.0003768	9	92	No	22	9.091	n/a	0.01	NP
Boron (mg/L)	**MCM-16 (bg)**	**-0.004259**	**-112**	**-92**	**Yes**	**22**	**9.091**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MCM-18 (bg)**	**-0.01183**	**-109**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	MCM-19 (bg)	-0.007593	-13	-81	No	20	0	n/a	0.01	NP
Boron (mg/L)	MCM-20 (bg)	-0.01931	-58	-81	No	20	0	n/a	0.01	NP
Boron (mg/L)	MCM-12	0.01109	51	92	No	22	0	n/a	0.01	NP
Boron (mg/L)	MCM-17	-0.008732	-25	-98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	MCM-01 (bg)	-0.3925	-75	-98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	MCM-02 (bg)	0.06518	28	92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	MCM-11 (bg)	0.07232	4	92	No	22	4.545	n/a	0.01	NP
Calcium (mg/L)	MCM-15 (bg)	-0.2041	-37	-92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	MCM-16 (bg)	-0.03838	-28	-92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	**MCM-18 (bg)**	**-5.143**	**-146**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	MCM-19 (bg)	-2.385	-30	-81	No	20	0	n/a	0.01	NP
Calcium (mg/L)	**MCM-20 (bg)**	**-12.57**	**-136**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	MCM-05	0.6512	12	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	MCM-06	-3.736	-15	-118	No	26	0	n/a	0.01	NP
pH, Field (SU)	MCM-01 (bg)	-0.06818	-96	-105	No	24	0	n/a	0.01	NP
pH, Field (SU)	**MCM-02 (bg)**	**0.02723**	**110**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-11 (bg)	-0.03785	-75	-98	No	23	0	n/a	0.01	NP
pH, Field (SU)	MCM-15 (bg)	-0.04201	-102	-105	No	24	0	n/a	0.01	NP
pH, Field (SU)	MCM-16 (bg)	0	-2	-98	No	23	0	n/a	0.01	NP
pH, Field (SU)	MCM-18 (bg)	0.0448	77	81	No	20	0	n/a	0.01	NP
pH, Field (SU)	MCM-19 (bg)	-0.02439	-44	-81	No	20	0	n/a	0.01	NP
pH, Field (SU)	**MCM-20 (bg)**	**-0.02641**	**-105**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-05	-0.001169	-6	-111	No	25	0	n/a	0.01	NP
pH, Field (SU)	MCM-06	0	-1	-111	No	25	0	n/a	0.01	NP
pH, Field (SU)	MCM-07	-0.02012	-53	-111	No	25	0	n/a	0.01	NP
pH, Field (SU)	MCM-12	-0.003181	-15	-98	No	23	0	n/a	0.01	NP
pH, Field (SU)	**MCM-14**	**-0.05482**	**-169**	**-111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-17**	**-0.05885**	**-114**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**

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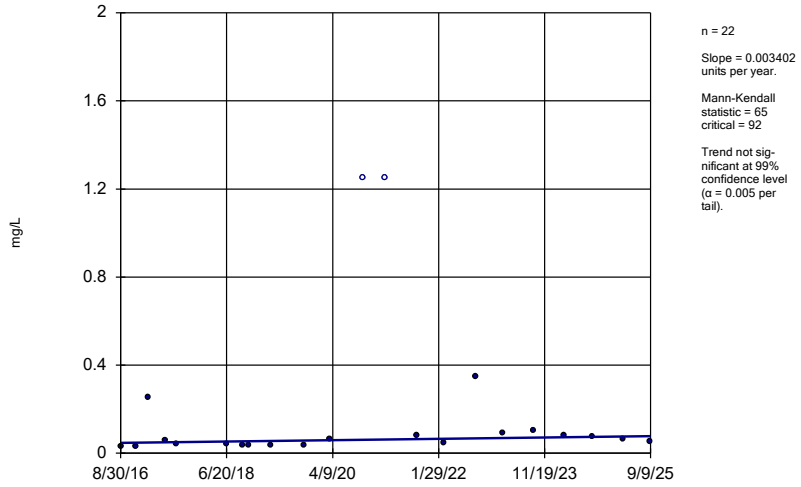
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-01 (bg)



n = 22

Slope = 0.003402 units per year.

Mann-Kendall statistic = 65
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/10/2025 3:07 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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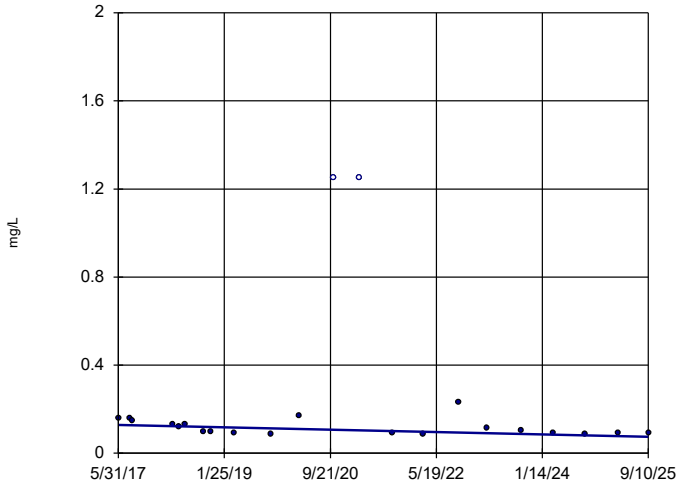
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-02 (bg)



n = 22

Slope = -0.006468 units per year.

Mann-Kendall statistic = -81
critical = -92

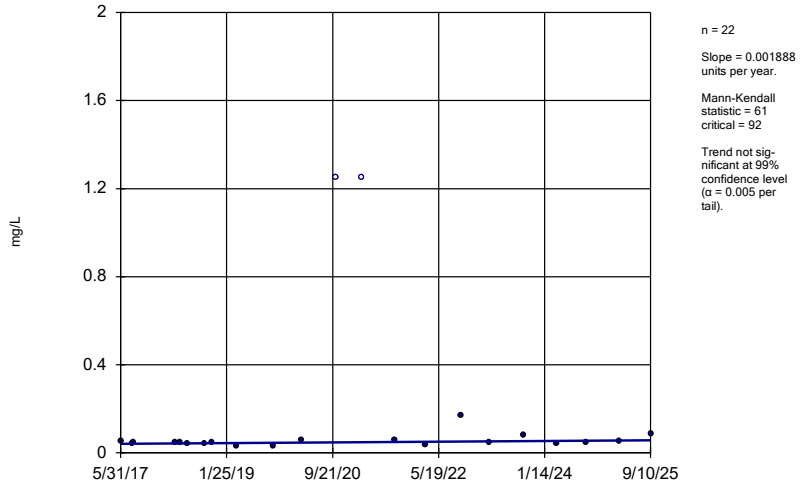
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/10/2025 3:07 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-11 (bg)



n = 22

Slope = 0.001888 units per year.

Mann-Kendall statistic = 61
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/10/2025 3:07 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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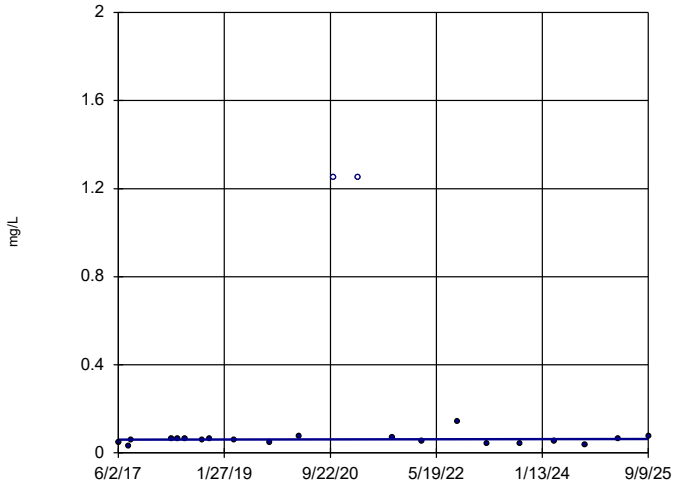
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-15 (bg)



n = 22

Slope = 0.0003768 units per year.

Mann-Kendall statistic = 9
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/10/2025 3:07 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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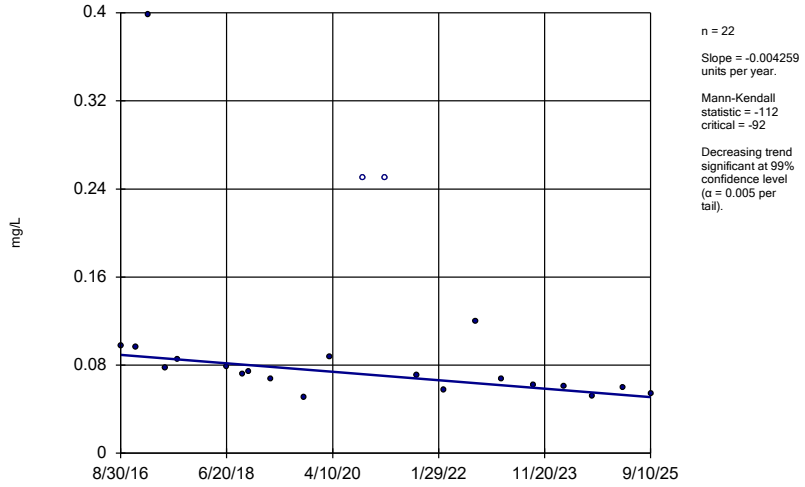
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-16 (bg)



n = 22

Slope = -0.004259 units per year.

Mann-Kendall statistic = -112
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/10/2025 3:07 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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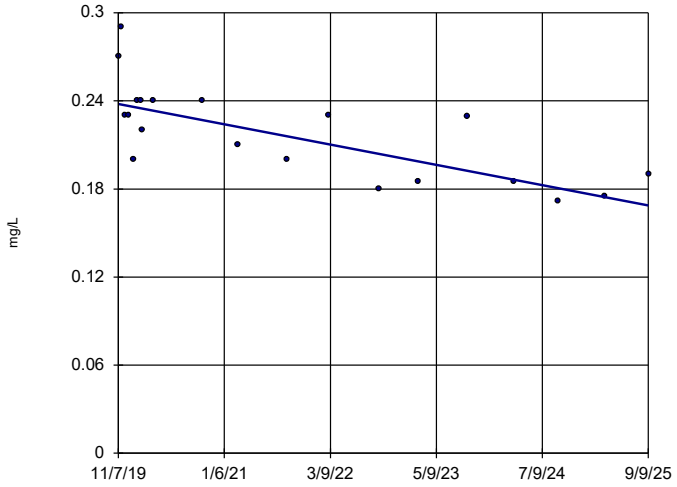
Sen's Slope Estimator

MCM-18 (bg)



n = 20

Slope = -0.01183 units per year.

Mann-Kendall statistic = -109
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/10/2025 3:07 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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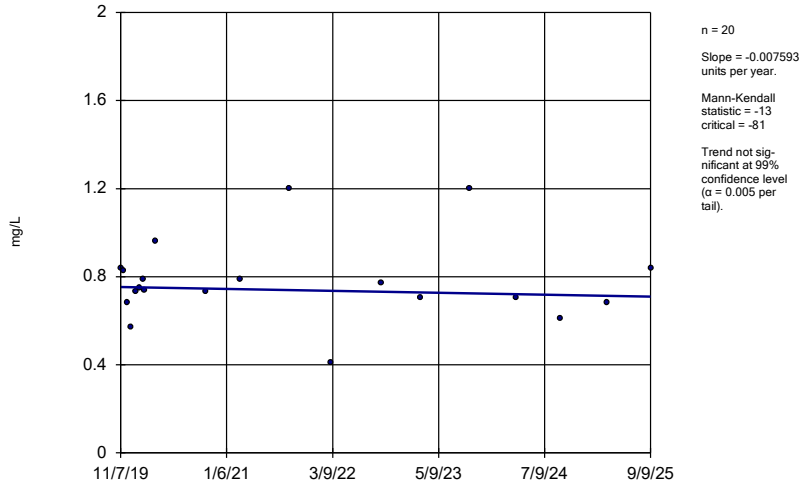
Sen's Slope Estimator

MCM-19 (bg)



n = 20

Slope = -0.007593 units per year.

Mann-Kendall statistic = -13
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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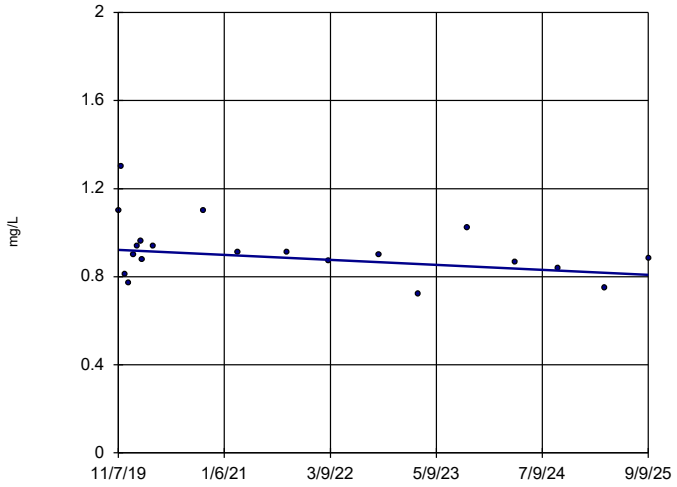
Sen's Slope Estimator

MCM-20 (bg)



n = 20

Slope = -0.01931 units per year.

Mann-Kendall statistic = -58
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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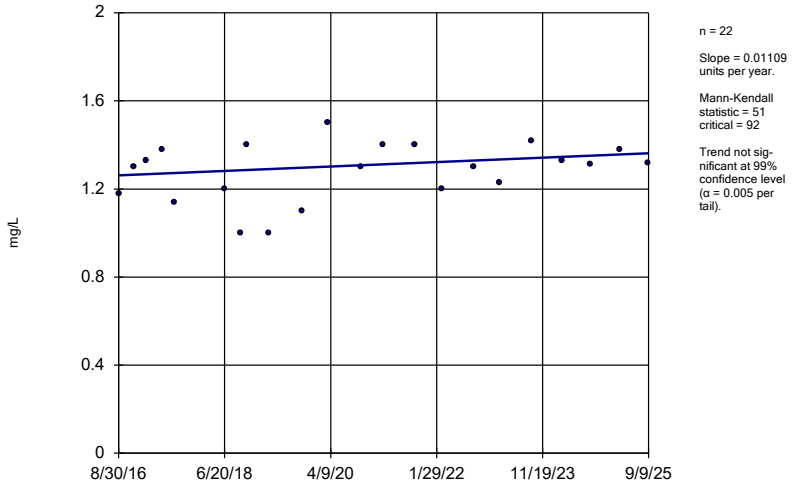
Sen's Slope Estimator

MCM-12



n = 22

Slope = 0.01109 units per year.

Mann-Kendall statistic = 51 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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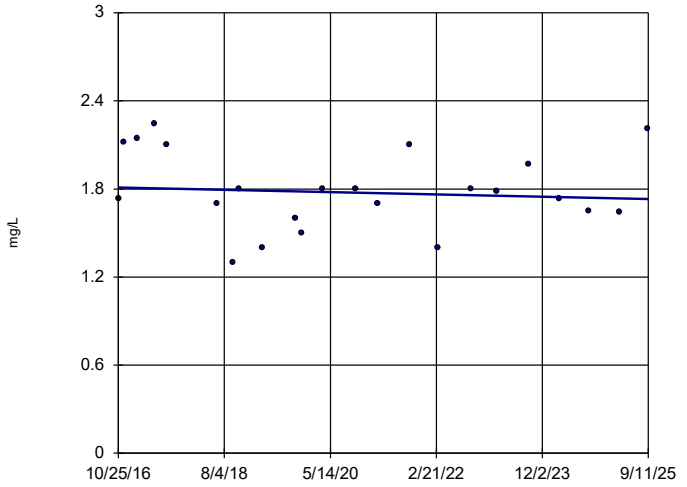
Sen's Slope Estimator

MCM-17



n = 23

Slope = -0.008732 units per year.

Mann-Kendall statistic = -25 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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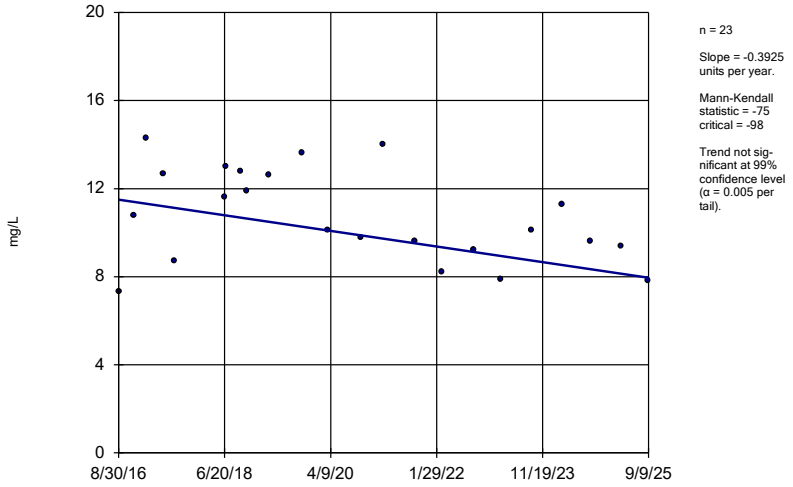
Sen's Slope Estimator

MCM-01 (bg)



n = 23

Slope = -0.3925 units per year.

Mann-Kendall statistic = -75 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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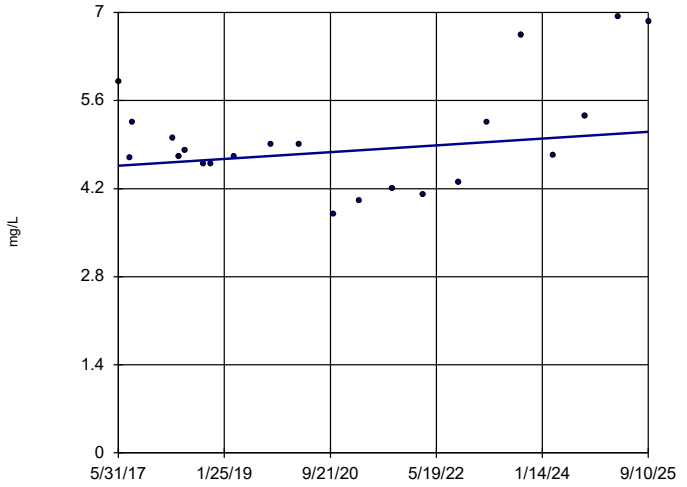
Sen's Slope Estimator

MCM-02 (bg)



n = 22

Slope = 0.06518 units per year.

Mann-Kendall statistic = 28 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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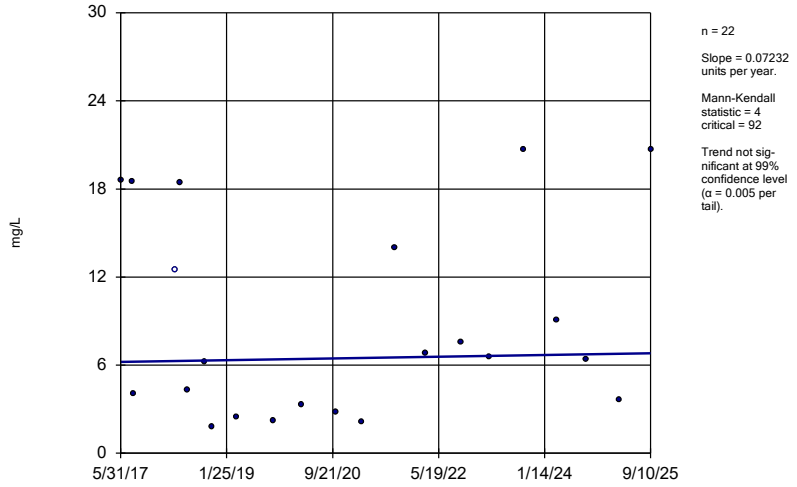
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-11 (bg)



n = 22

Slope = 0.07232 units per year.

Mann-Kendall statistic = 4
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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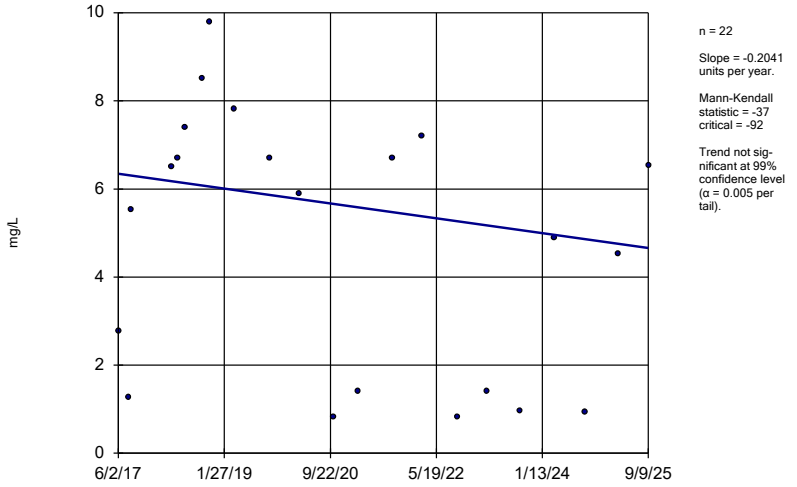
Sen's Slope Estimator

MCM-15 (bg)



n = 22

Slope = -0.2041 units per year.

Mann-Kendall statistic = -37
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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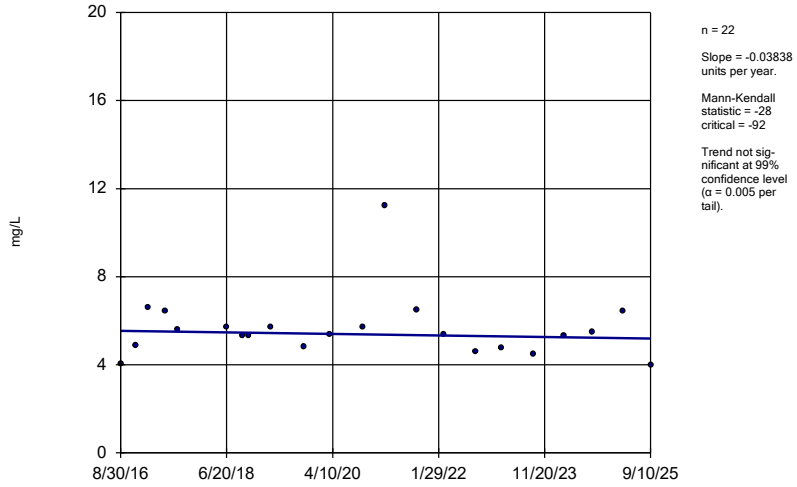
Sen's Slope Estimator

MCM-16 (bg)



n = 22

Slope = -0.03838 units per year.

Mann-Kendall statistic = -28
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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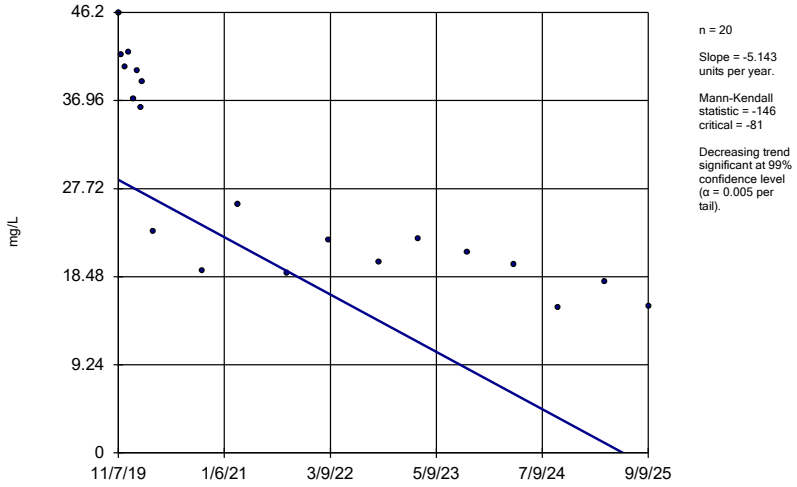
Sen's Slope Estimator

MCM-18 (bg)



n = 20

Slope = -5.143 units per year.

Mann-Kendall statistic = -146
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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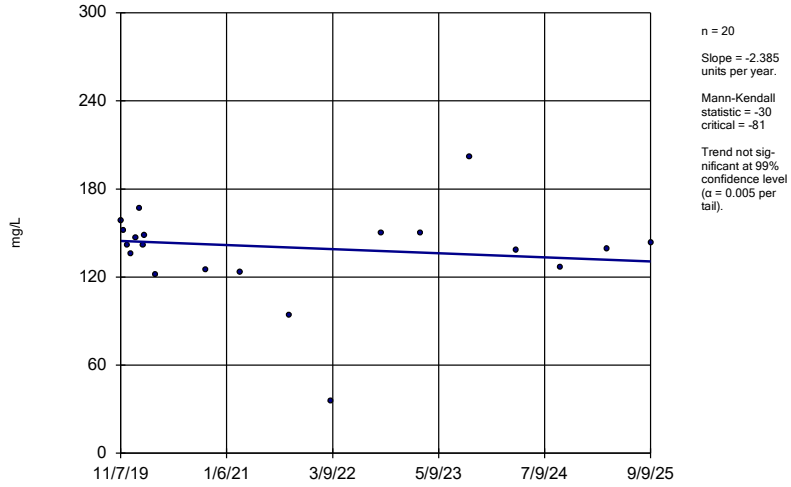
Sen's Slope Estimator

MCM-19 (bg)



n = 20

Slope = -2.385 units per year.

Mann-Kendall statistic = -30 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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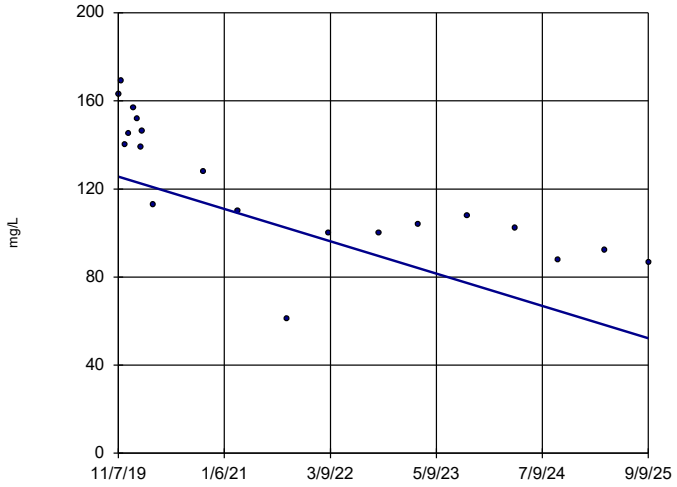
Sen's Slope Estimator

MCM-20 (bg)



n = 20

Slope = -12.57 units per year.

Mann-Kendall statistic = -136 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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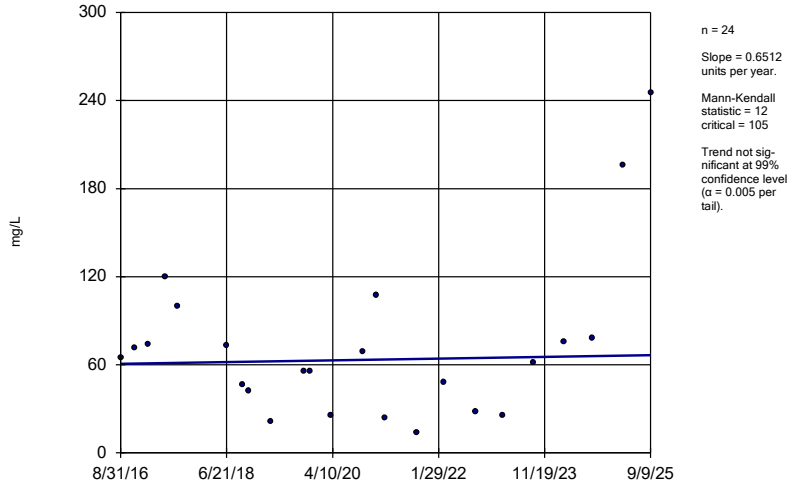
Sen's Slope Estimator

MCM-05



n = 24

Slope = 0.6512 units per year.

Mann-Kendall statistic = 12 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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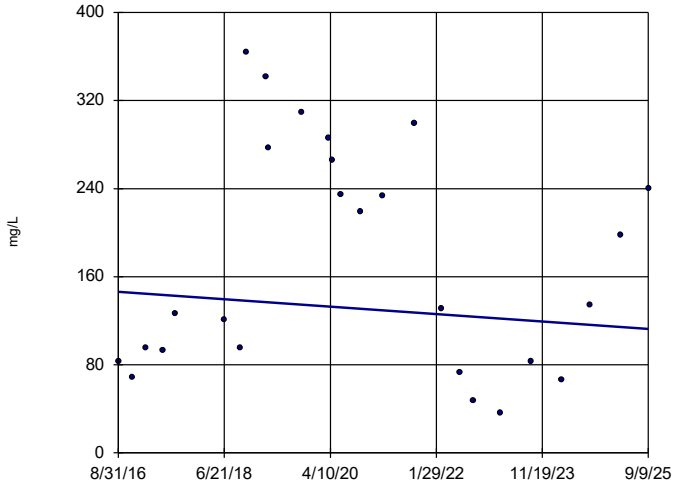
Sen's Slope Estimator

MCM-06



n = 26

Slope = -3.736 units per year.

Mann-Kendall statistic = -15 critical = -118

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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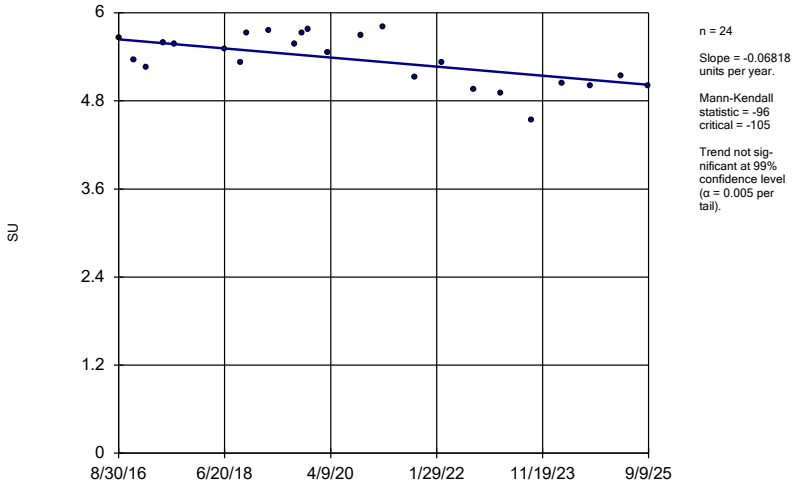
Sen's Slope Estimator

MCM-01 (bg)



n = 24

Slope = -0.06818 units per year.

Mann-Kendall statistic = -96
critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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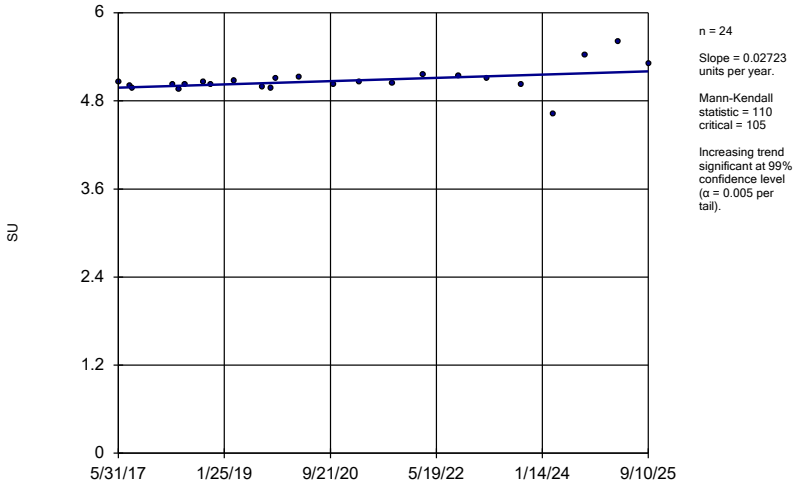
Sen's Slope Estimator

MCM-02 (bg)



n = 24

Slope = 0.02723 units per year.

Mann-Kendall statistic = 110
critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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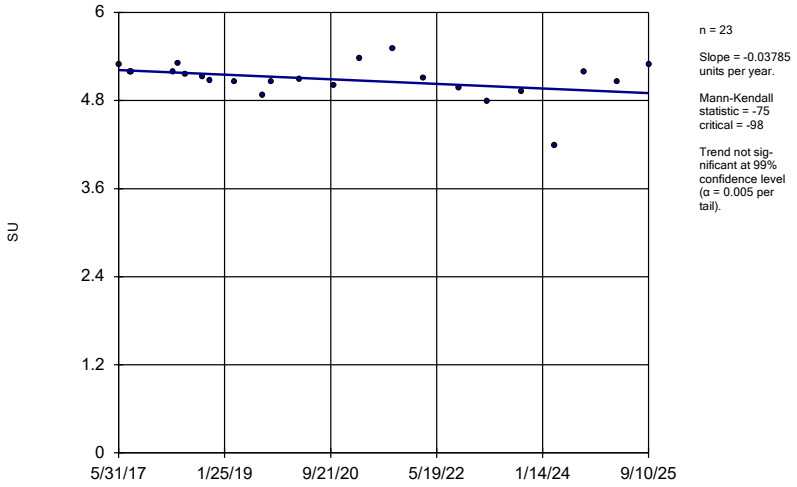
Sen's Slope Estimator

MCM-11 (bg)



n = 23

Slope = -0.03785 units per year.

Mann-Kendall statistic = -75
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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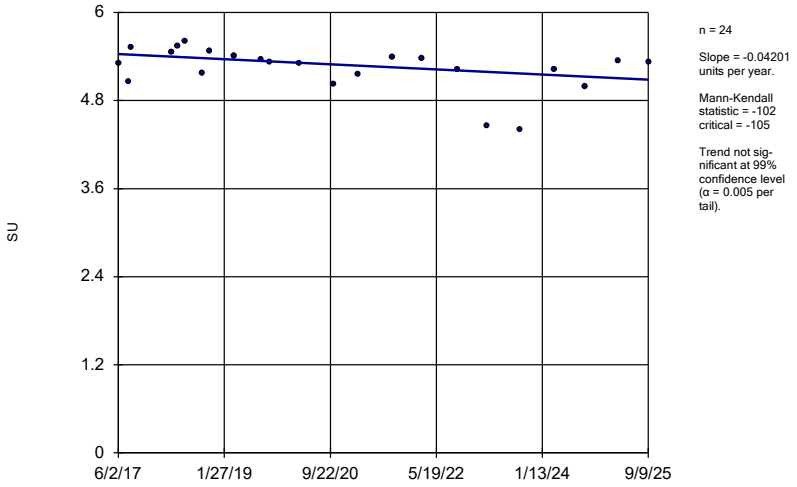
Sen's Slope Estimator

MCM-15 (bg)



n = 24

Slope = -0.04201 units per year.

Mann-Kendall statistic = -102
critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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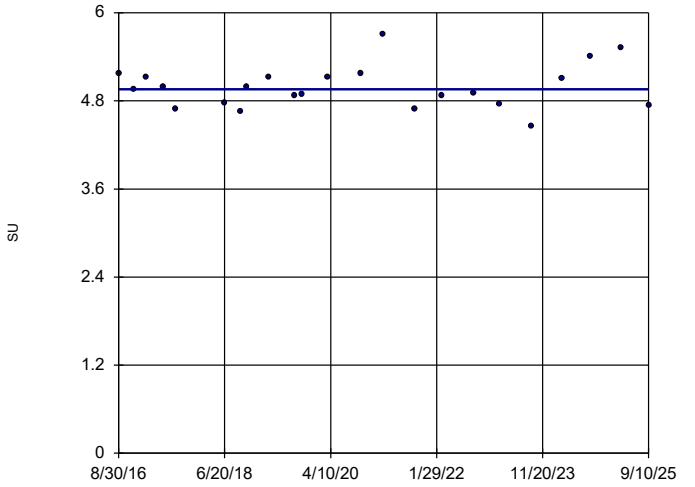
Sen's Slope Estimator

MCM-16 (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -2 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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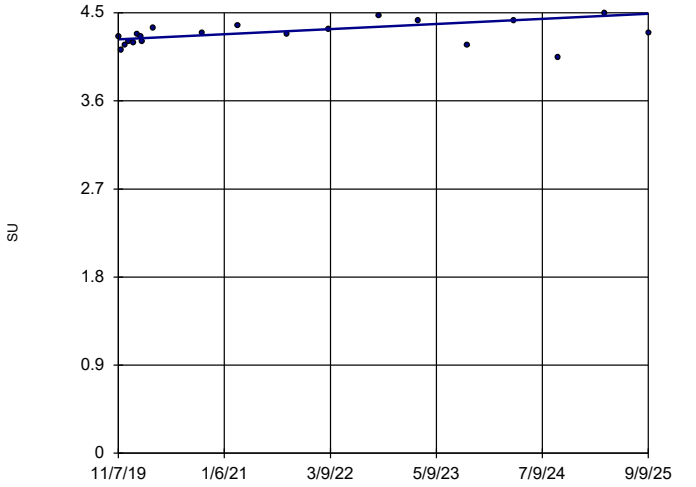
Sen's Slope Estimator

MCM-18 (bg)



n = 20

Slope = 0.0448 units per year.

Mann-Kendall statistic = 77 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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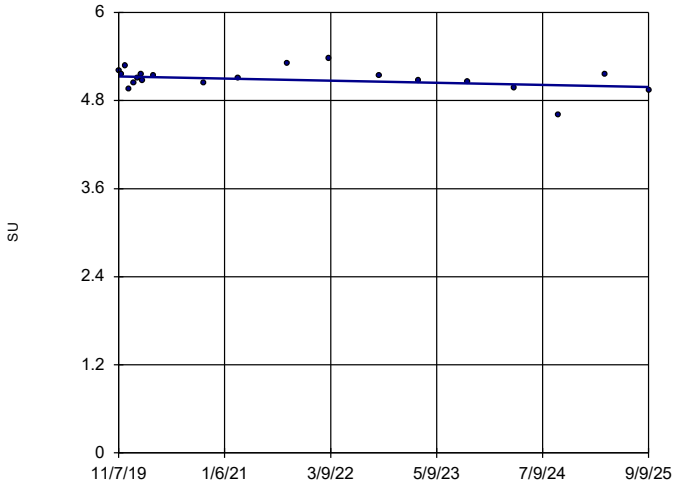
Sen's Slope Estimator

MCM-19 (bg)



n = 20

Slope = -0.02439 units per year.

Mann-Kendall statistic = -44 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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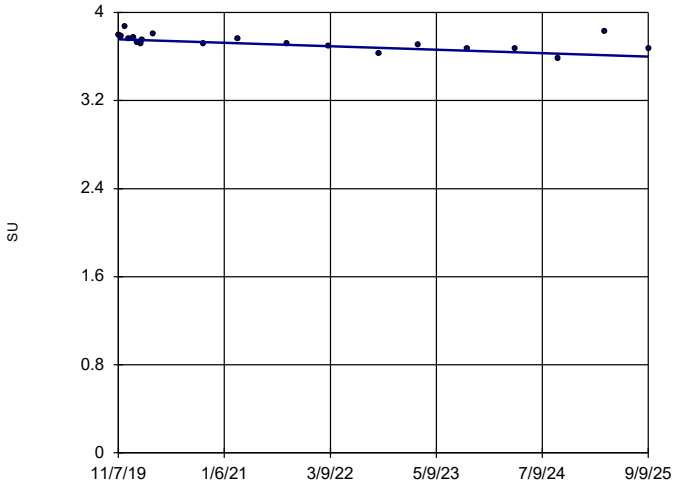
Sen's Slope Estimator

MCM-20 (bg)



n = 20

Slope = -0.02641 units per year.

Mann-Kendall statistic = -105 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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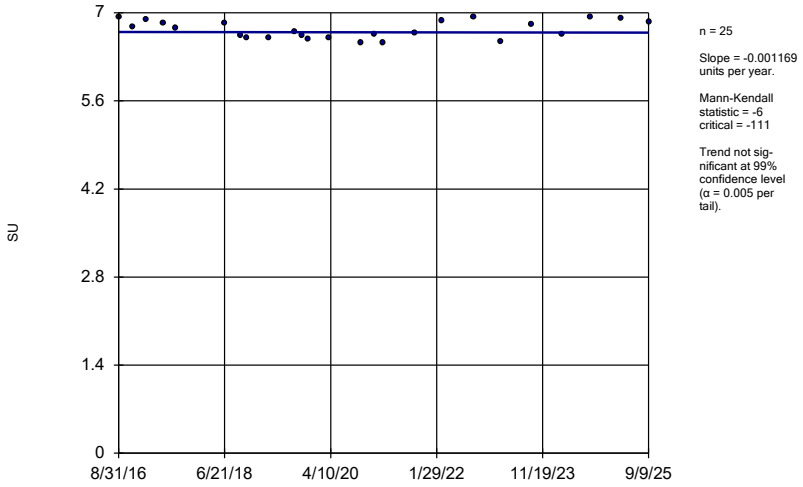
Sen's Slope Estimator

MCM-05



n = 25

Slope = -0.001169 units per year.

Mann-Kendall statistic = -6
critical = -111

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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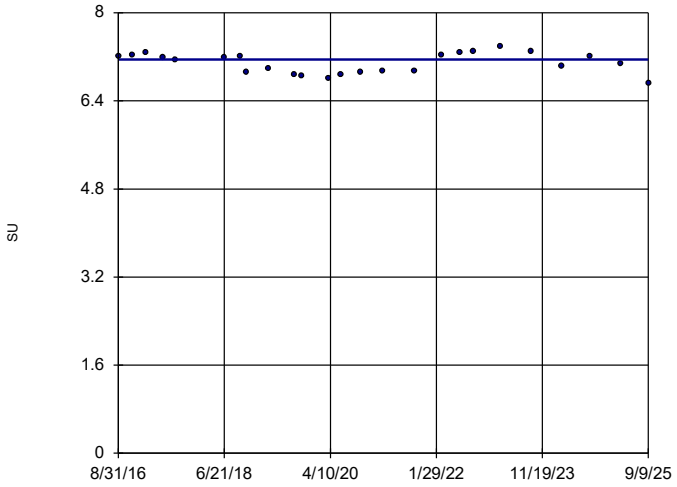
Sen's Slope Estimator

MCM-06



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = -1
critical = -111

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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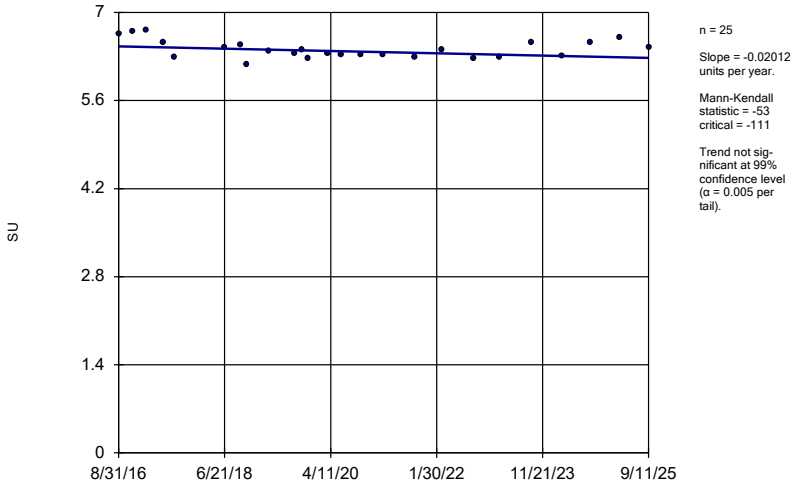
Sen's Slope Estimator

MCM-07



n = 25

Slope = -0.02012 units per year.

Mann-Kendall statistic = -53
critical = -111

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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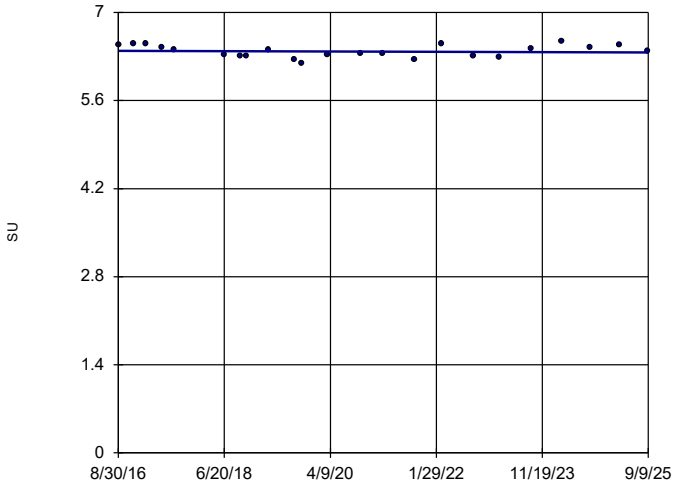
Sen's Slope Estimator

MCM-12



n = 23

Slope = -0.003181 units per year.

Mann-Kendall statistic = -15
critical = -98

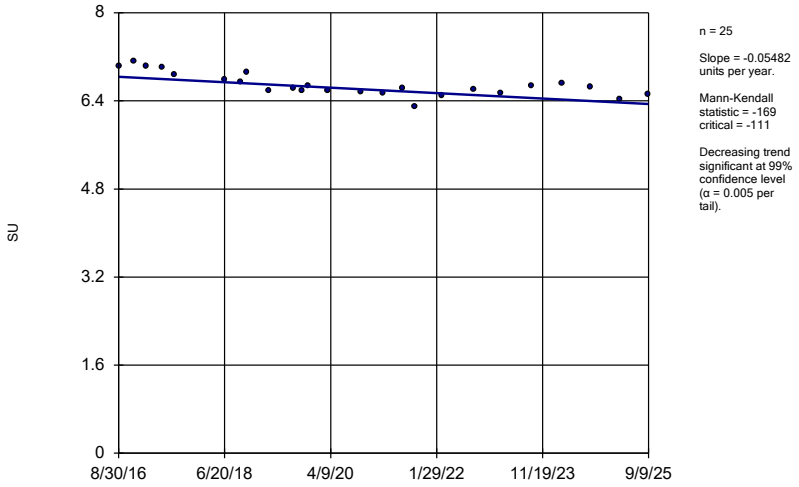
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MCM-14



n = 25

Slope = -0.05482 units per year.

Mann-Kendall statistic = -169
critical = -111

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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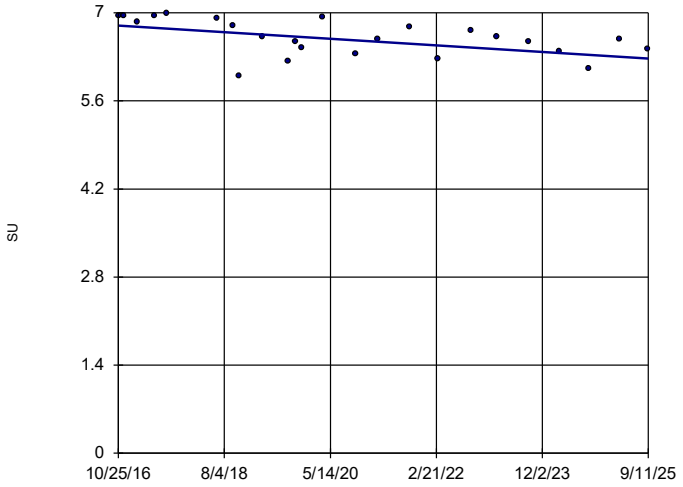
Sen's Slope Estimator

MCM-17



n = 24

Slope = -0.05885 units per year.

Mann-Kendall statistic = -114
critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 11/10/2025 3:08 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

FIGURE F.

Upper Tolerance Limits Summary Table

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:21 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.003	155	n/a	n/a	99.35	n/a	n/a	0.0003525	NP Inter(NDs)
Arsenic (mg/L)	0.032	173	n/a	n/a	19.08	n/a	n/a	NaN	NP Inter(normality)
Barium (mg/L)	0.22	171	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.021	170	n/a	n/a	31.76	n/a	n/a	0.0001633	NP Inter(normality)
Cadmium (mg/L)	0.0043	153	n/a	n/a	97.39	n/a	n/a	0.0003906	NP Inter(NDs)
Chromium (mg/L)	0.011	155	n/a	n/a	61.29	n/a	n/a	0.0003525	NP Inter(NDs)
Cobalt (mg/L)	0.036	170	n/a	n/a	77.65	n/a	n/a	0.0001633	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	34.9	161	n/a	n/a	0	n/a	n/a	0.0002591	NP Inter(normality)
Fluoride (mg/L)	3.98	174	n/a	n/a	46.55	n/a	n/a	NaN	NP Inter(normality)
Lead (mg/L)	0.002	170	n/a	n/a	89.41	n/a	n/a	0.0001633	NP Inter(NDs)
Lithium (mg/L)	0.0493	167	n/a	n/a	59.88	n/a	n/a	0.0001905	NP Inter(NDs)
Mercury (mg/L)	0.0007	154	n/a	n/a	97.4	n/a	n/a	0.0003711	NP Inter(NDs)
Molybdenum (mg/L)	0.002	154	n/a	n/a	88.96	n/a	n/a	0.0003711	NP Inter(NDs)
Selenium (mg/L)	0.0727	147	n/a	n/a	73.47	n/a	n/a	0.0005313	NP Inter(NDs)
Thallium (mg/L)	0.002	154	n/a	n/a	97.4	n/a	n/a	0.0003711	NP Inter(NDs)

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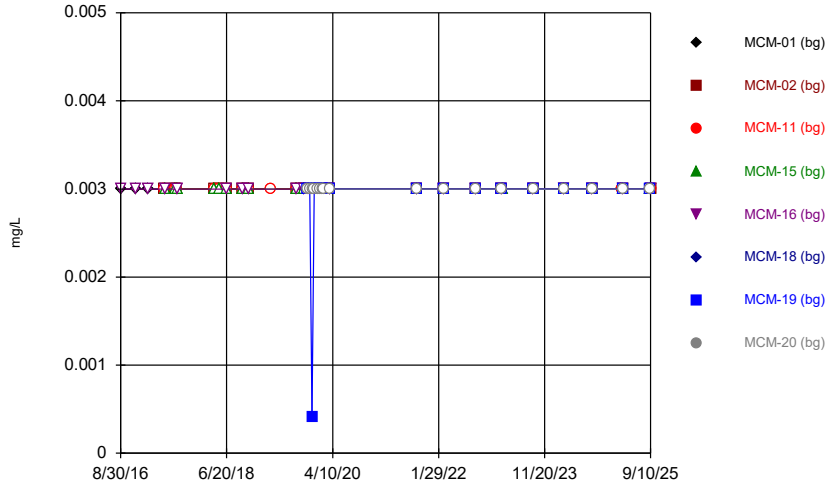
Hollow symbols indicate censored values.

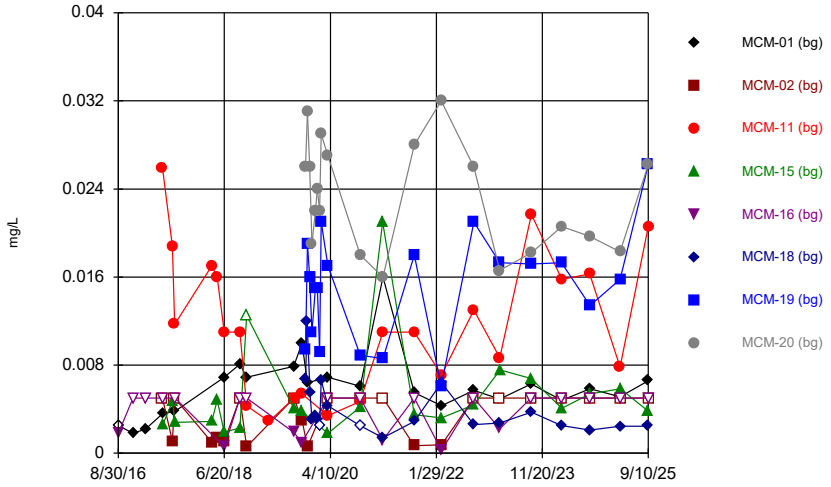
Time Series



Constituent: Antimony Analysis Run 11/10/2025 3:19 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

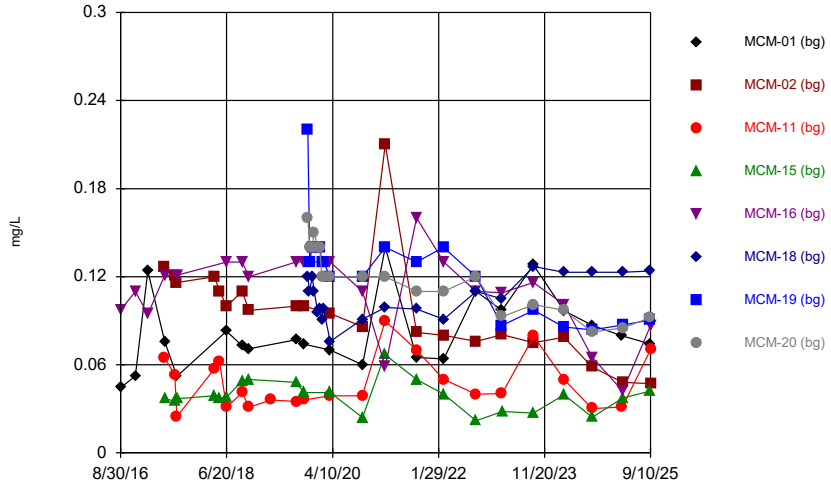
Time Series



Constituent: Arsenic Analysis Run 11/10/2025 3:19 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

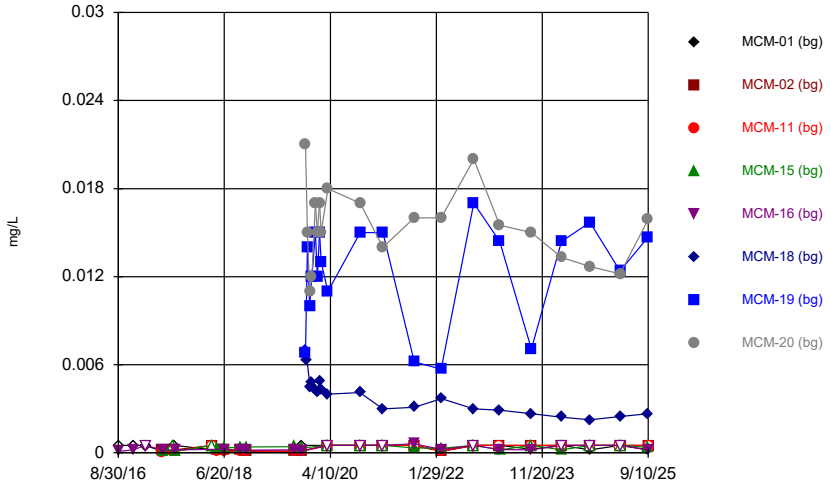
Time Series



Constituent: Barium Analysis Run 11/10/2025 3:19 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

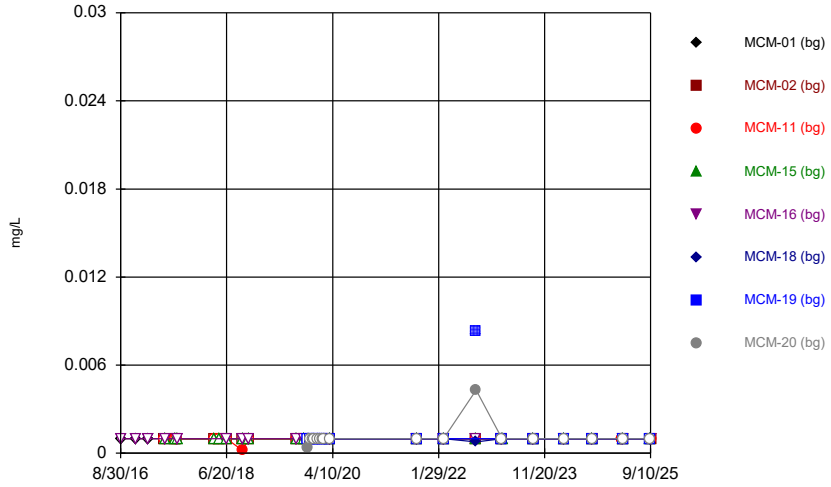
Time Series



Constituent: Beryllium Analysis Run 11/10/2025 3:19 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

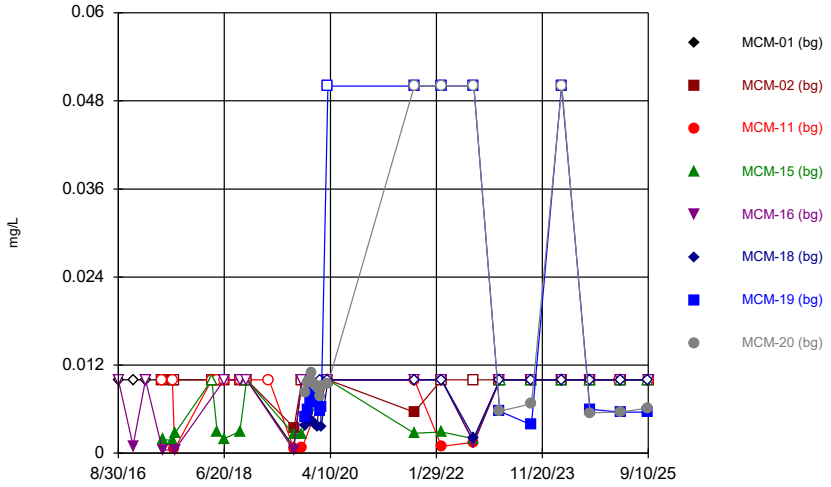
Time Series



Constituent: Cadmium Analysis Run 11/10/2025 3:19 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

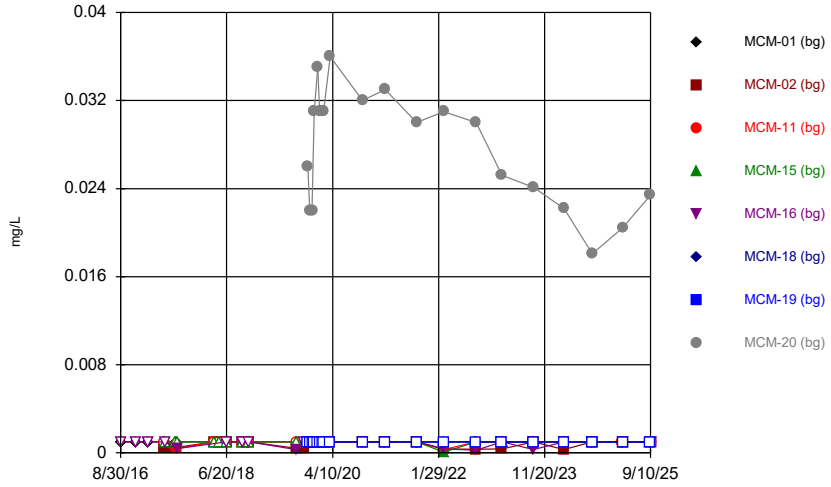
Time Series



Constituent: Chromium Analysis Run 11/10/2025 3:19 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 11/10/2025 3:19 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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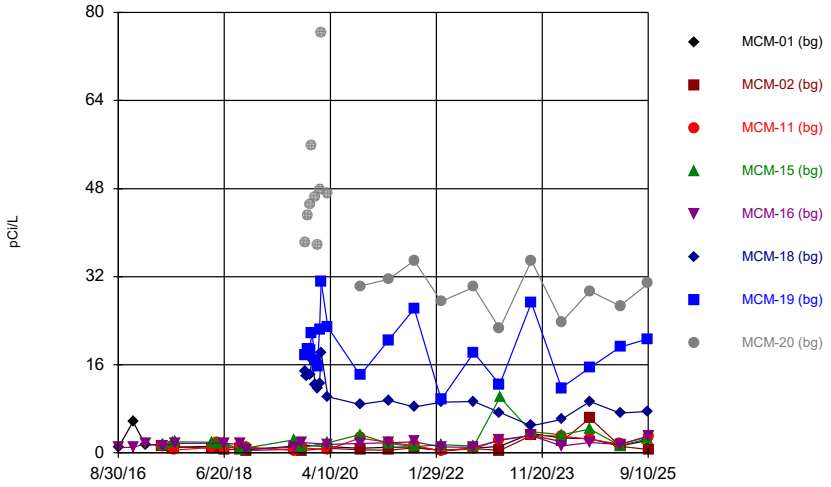
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/10/2025 3:19 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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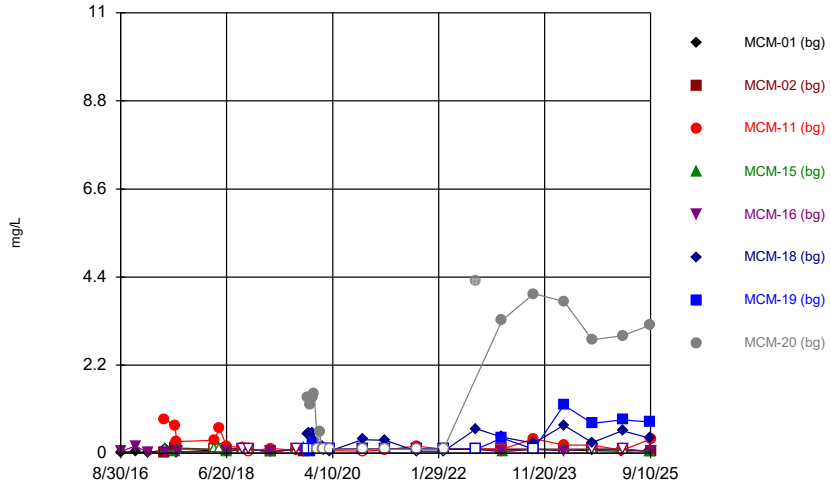
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 11/10/2025 3:19 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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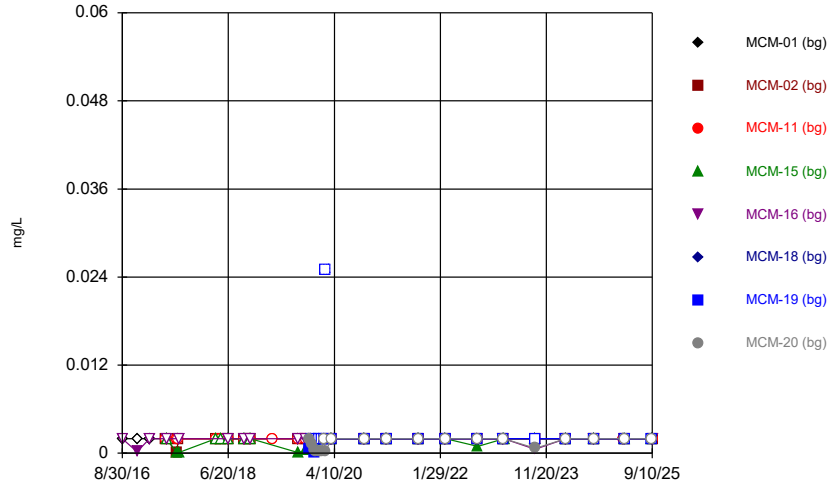
Hollow symbols indicate censored values.

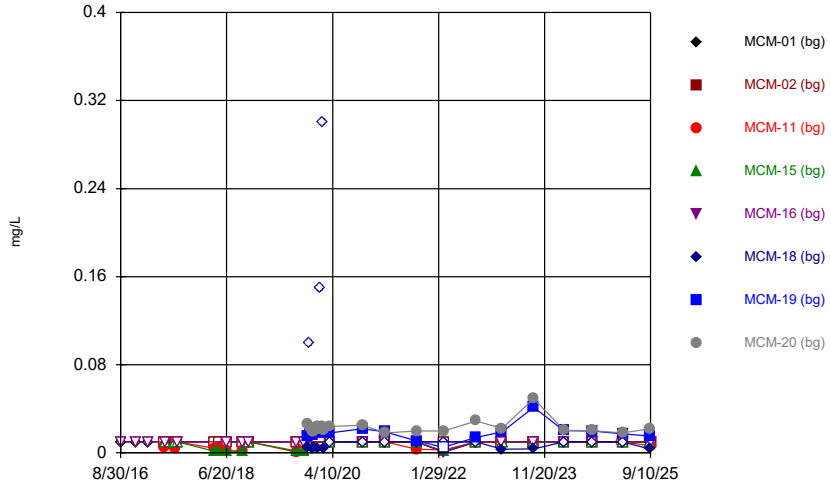
Time Series



Constituent: Lead Analysis Run 11/10/2025 3:19 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

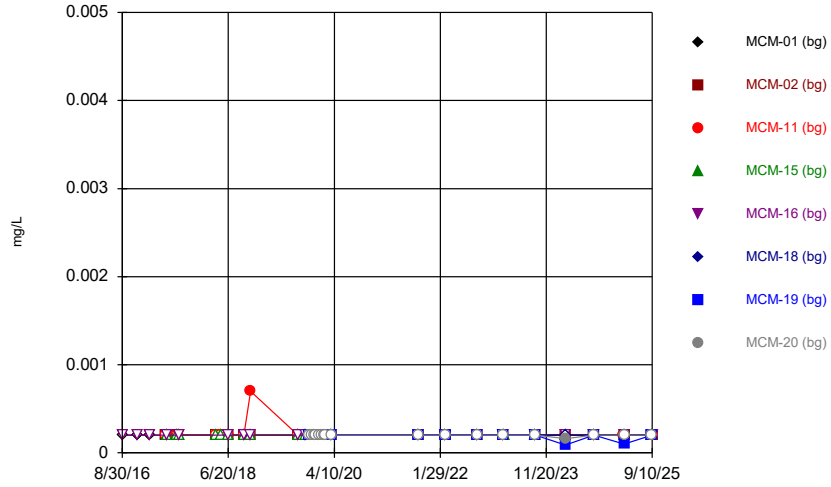
Time Series



Constituent: Lithium Analysis Run 11/10/2025 3:19 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

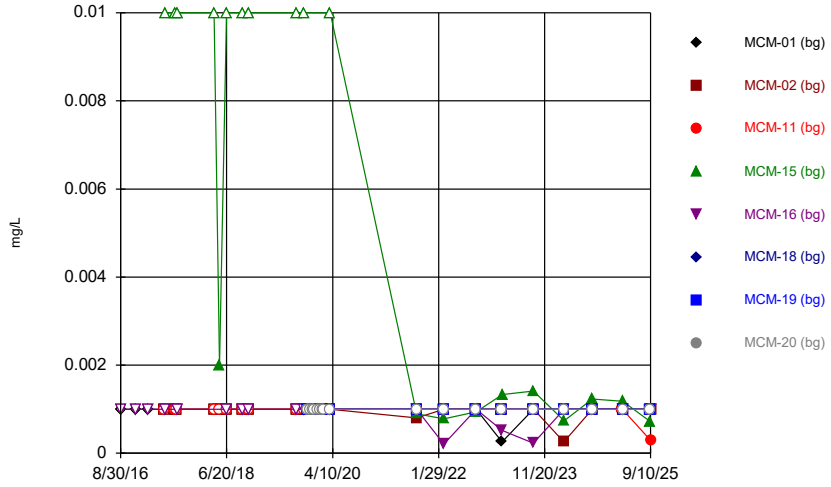
Time Series



Constituent: Mercury Analysis Run 11/10/2025 3:19 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Molybdenum Analysis Run 11/10/2025 3:19 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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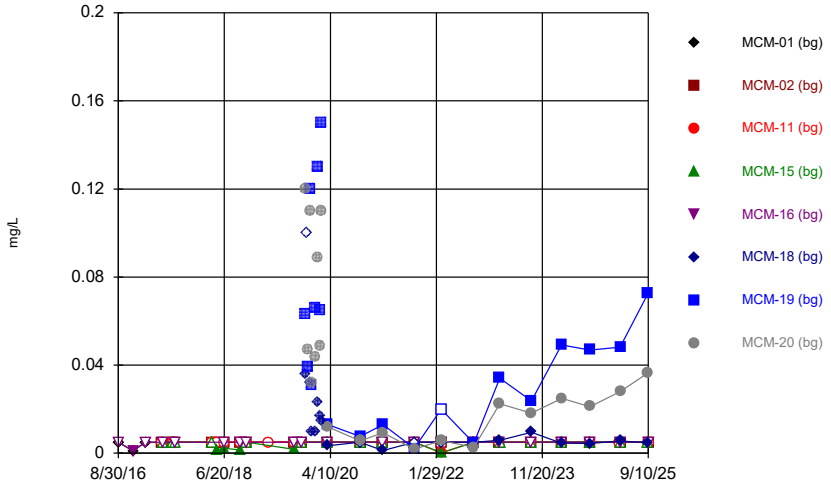
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 11/10/2025 3:19 PM View: UTLs
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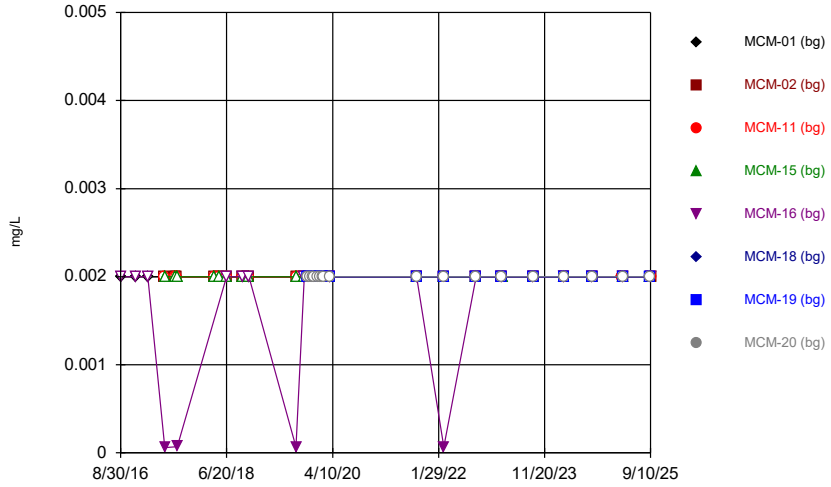
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 11/10/2025 3:19 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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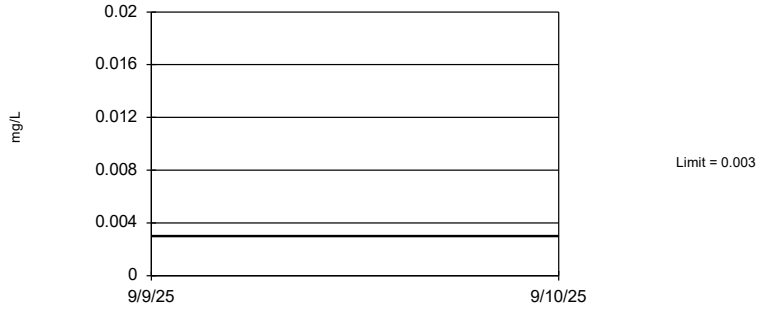
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 155 background values. 99.35% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003525.

Constituent: Antimony Analysis Run 11/10/2025 3:20 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 173 background values. 19.08% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Arsenic Analysis Run 11/10/2025 3:20 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 171 background values. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Barium Analysis Run 11/10/2025 3:20 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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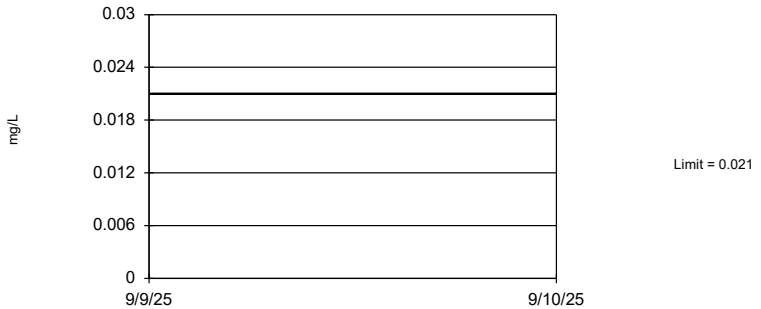
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 170 background values. 31.76% NDs. 97.46% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0001633.

Constituent: Beryllium Analysis Run 11/10/2025 3:20 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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Tolerance Limit

Interwell Non-parametric

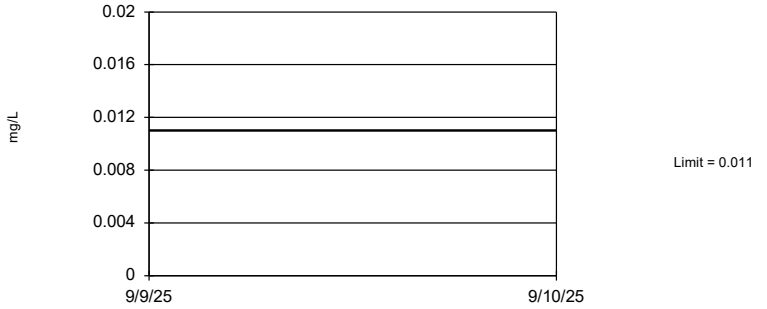
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 153 background values. 97.39% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003906.

Constituent: Cadmium Analysis Run 11/10/2025 3:20 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



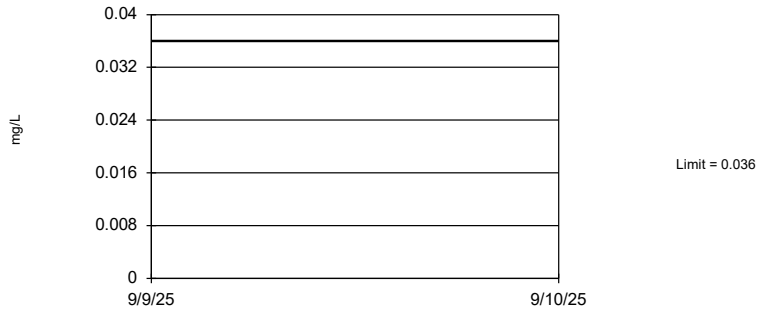
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 155 background values. 61.29% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003525.

Constituent: Chromium Analysis Run 11/10/2025 3:20 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



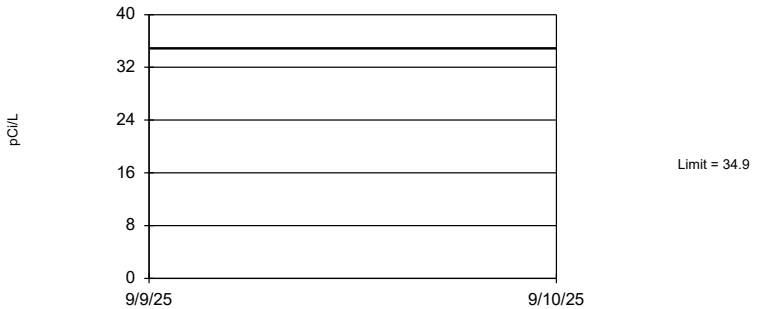
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 170 background values. 77.65% NDs. 97.46% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0001633.

Constituent: Cobalt Analysis Run 11/10/2025 3:20 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 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 161 background values. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002591.

Constituent: Combined Radium 226 + 228 Analysis Run 11/10/2025 3:20 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

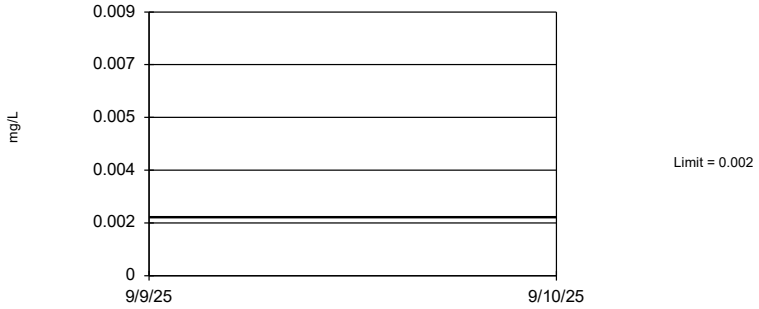
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 174 background values. 46.55% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Fluoride Analysis Run 11/10/2025 3:20 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 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 170 background values. 89.41% NDs. 97.46% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0001633.

Constituent: Lead Analysis Run 11/10/2025 3:20 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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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 167 background values. 59.88% NDs. 97.46% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0001905.

Constituent: Lithium Analysis Run 11/10/2025 3:20 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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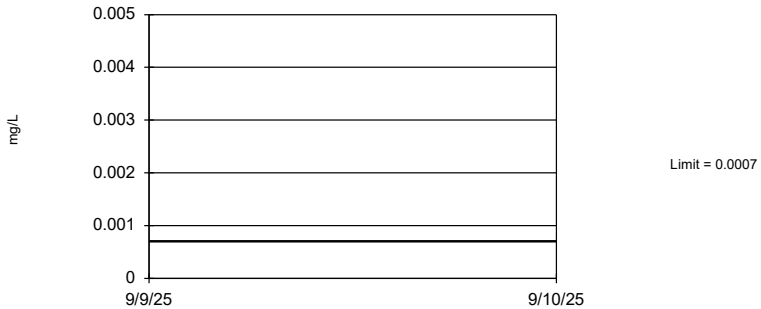
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 154 background values. 97.4% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003711.

Constituent: Mercury Analysis Run 11/10/2025 3:20 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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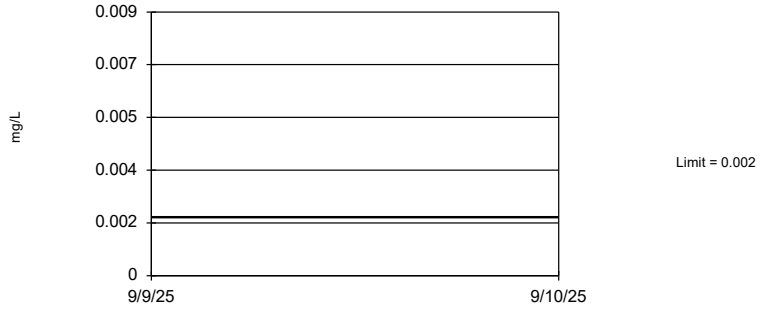
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 154 background values. 88.96% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003711.

Constituent: Molybdenum Analysis Run 11/10/2025 3:20 PM View: UTLs

Plant McManus Client: Southern Company Data: McManus AP1

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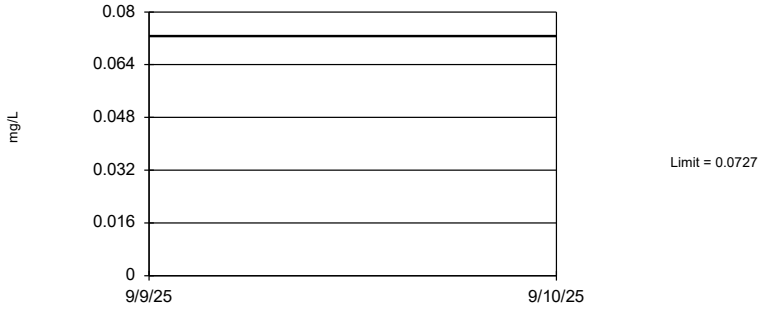
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 147 background values. 73.47% NDs. 97.07% coverage at alpha=0.01; 97.85% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0005313.

Constituent: Selenium Analysis Run 11/10/2025 3:20 PM View: UTLs

Plant McManus Client: Southern Company Data: McManus AP1

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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 154 background values. 97.4% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003711.

Constituent: Thallium Analysis Run 11/10/2025 3:20 PM View: UTLs

Plant McManus Client: Southern Company Data: McManus AP1

FIGURE G.

MCMANUS ASH POND GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.032	0.032
Barium, Total (mg/L)	2		0.22	2
Beryllium, Total (mg/L)	0.004		0.021	0.021
Cadmium, Total (mg/L)	0.005		0.0043	0.005
Chromium, Total (mg/L)	0.1		0.011	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.036	0.036
Combined Radium, Total (pCi/L)	5		34.9	34.9
Fluoride, Total (mg/L)	4		3.98	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.049	0.049
Mercury, Total (mg/L)	0.002		0.0007	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.002	0.1
Selenium, Total (mg/L)	0.05		0.073	0.073
Thallium, Total (mg/L)	0.002		0.002	0.002

**Gray cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE H.

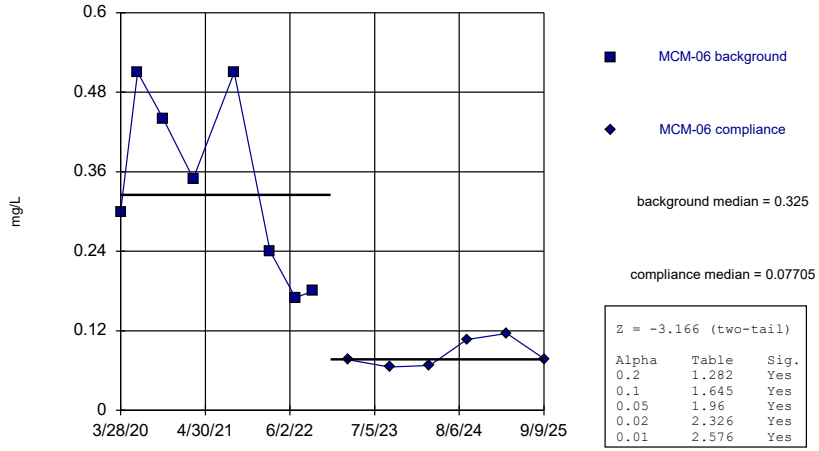
Mann-Whitney - Arsenic & Lithium MCM-06 - All/Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 4:02 PM

Constituent	Well	Calc.	0.01	Alpha	Sig.	Method
Arsenic (mg/L)	**MCM-06**	**-3.166**	**Yes**	**0.01**	**Yes**	**Mann-W**
Lithium (mg/L)	**MCM-06**	**-3.071**	**Yes**	**0.01**	**Yes**	**Mann-W**

Mann-Whitney (Wilcoxon Rank Sum)

MCM-06



Z = -3.166 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Arsenic Analysis Run 11/10/2025 4:01 PM View: Truncated View
Plant McManus Client: Southern Company Data: McManus AP1

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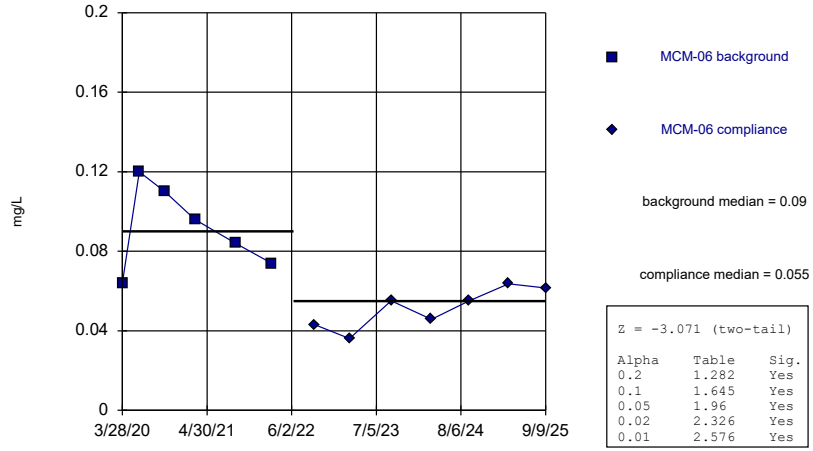
Mann-Whitney (Wilcoxon Rank Sum)

MCM-06



Z = -3.071 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Lithium Analysis Run 11/10/2025 4:01 PM View: Truncated View
Plant McManus Client: Southern Company Data: McManus AP1

Arsenic & Lithium MCM-06 Trend Test - Truncated Record - All Results (No Significant)

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:27 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	MCM-06	0.006933	7	12	No	6	0	n/a	0.05	NP
Lithium (mg/L)	MCM-06	0.008254	13	15	No	7	0	n/a	0.05	NP

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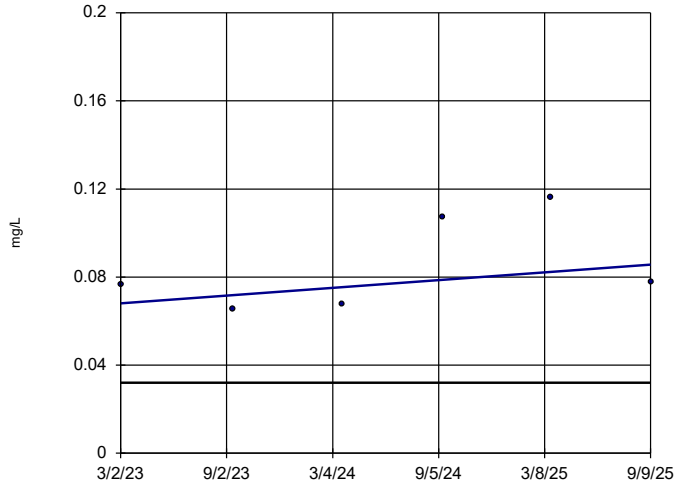
Sen's Slope Estimator

MCM-06



n = 6

Slope = 0.006933 units per year.

Mann-Kendall statistic = 7 critical = 12

Trend not significant at 95% confidence level (α = 0.025 per tail).

GWPS = 0.032.

Constituent: Arsenic Analysis Run 11/10/2025 3:25 PM View: Truncated View

Plant McManus Client: Southern Company Data: McManus AP1

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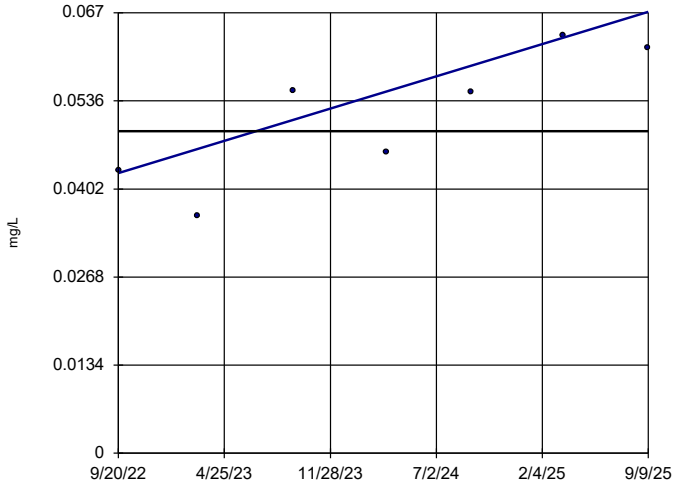
Sen's Slope Estimator

MCM-06



n = 7

Slope = 0.008254 units per year.

Mann-Kendall statistic = 13 critical = 15

Trend not significant at 95% confidence level (α = 0.025 per tail).

GWPS = 0.049.

Constituent: Lithium Analysis Run 11/10/2025 3:25 PM View: Truncated View

Plant McManus Client: Southern Company Data: McManus AP1

FIGURE I.

Appendix IV Confidence Intervals - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**MCM-06**	**0.1142**	**0.05573**	**0.032**	**Yes**	**6**	**0.08498**	**0.02129**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DPZ-02**	**0.09138**	**0.07093**	**0.049**	**Yes**	**13**	**0.07724**	**0.02433**	**7.692**	**None**	**x^3**	**0.01**	**Param.**

Appendix IV Confidence Intervals - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MCM-05	0.003	0.00159	0.006	No	20	0.002851	0.000461	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	MCM-06	0.003	0.0029	0.006	No	21	0.002799	0.0006186	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	MCM-14	0.003	0.0004	0.006	No	20	0.00287	0.0005814	95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-04	0.005379	0.002771	0.032	No	22	0.004436	0.003038	13.64	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	MCM-05	0.01406	0.005746	0.032	No	38	0.01335	0.01423	7.895	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	**MCM-06**	**0.1142**	**0.05573**	**0.032**	**Yes**	**6**	**0.08498**	**0.02129**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	MCM-07	0.01614	0.0106	0.032	No	37	0.01411	0.007271	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MCM-12	0.005	0.00234	0.032	No	22	0.003829	0.001799	68.18	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-14	0.025	0.0022	0.032	No	23	0.01534	0.01134	56.52	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-17	0.025	0.0024	0.032	No	23	0.01441	0.01136	52.17	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DPZ-02	0.025	0.01363	0.032	No	13	0.01932	0.007642	7.692	None	No	0.01	Param.
Barium (mg/L)	MCM-04	0.06605	0.03398	2	No	22	0.06044	0.06177	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MCM-05	0.03962	0.01387	2	No	23	0.04593	0.09089	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MCM-06	0.1307	0.06143	2	No	23	0.1042	0.07529	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	MCM-07	0.1612	0.08499	2	No	22	0.1333	0.08979	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	MCM-12	0.114	0.08428	2	No	22	0.09915	0.02771	0	None	No	0.01	Param.
Barium (mg/L)	MCM-14	0.111	0.05572	2	No	22	0.08337	0.05153	0	None	No	0.01	Param.
Barium (mg/L)	MCM-17	0.1166	0.06868	2	No	22	0.09262	0.0446	0	None	No	0.01	Param.
Barium (mg/L)	DPZ-02	0.07727	0.04818	2	No	11	0.06273	0.01745	0	None	No	0.01	Param.
Beryllium (mg/L)	MCM-04	0.0003618	0.0002106	0.021	No	22	0.0003824	0.0001554	40.91	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	MCM-05	0.0025	0.000054	0.021	No	23	0.002394	0.00051	95.65	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-07	0.0005	0.00012	0.021	No	22	0.0004442	0.000144	86.36	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-12	0.001401	0.000749	0.021	No	22	0.001075	0.0006074	9.091	None	No	0.01	Param.
Beryllium (mg/L)	MCM-14	0.0025	0.0002	0.021	No	22	0.001957	0.001026	77.27	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-17	0.0025	0.00024	0.021	No	22	0.001172	0.001132	40.91	None	No	0.01	NP (normality)
Cadmium (mg/L)	MCM-04	0.001	0.00043	0.005	No	20	0.0009715	0.0001275	95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MCM-07	0.001	0.0002	0.005	No	20	0.00096	0.0001789	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-04	0.01	0.0013	0.1	No	20	0.006241	0.004324	55	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-05	0.01	0.0012	0.1	No	20	0.006852	0.004408	65	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-06	0.01	0.0015	0.1	No	21	0.007864	0.003917	76.19	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-07	0.01	0.0023	0.1	No	20	0.006545	0.003924	55	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-12	0.0077	0.0054	0.1	No	20	0.009656	0.006198	25	None	No	0.01	NP (normality)
Chromium (mg/L)	MCM-14	0.01	0.0018	0.1	No	20	0.006638	0.004241	60	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-17	0.01054	0.006259	0.1	No	20	0.01101	0.005839	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MCM-04	0.004464	0.002007	0.036	No	23	0.003557	0.002585	30.43	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MCM-05	0.0019	0.00026	0.036	No	23	0.001007	0.0002483	91.3	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-06	0.001	0.0009	0.036	No	23	0.0009652	0.0001465	91.3	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-07	0.0011	0.00031	0.036	No	22	0.0009732	0.0001496	90.91	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-12	0.001	0.000481	0.036	No	22	0.0007264	0.0002613	45.45	None	No	0.01	NP (normality)
Cobalt (mg/L)	MCM-14	0.001	0.0006	0.036	No	22	0.0009818	0.00008528	95.45	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-17	0.001	0.0007	0.036	No	22	0.000925	0.0002057	86.36	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	MCM-04	4.894	2.935	34.9	No	22	4.059	2.062	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-05	3.731	1.843	34.9	No	23	3.082	2.203	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-06	7.08	3.518	34.9	No	22	5.299	3.318	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-07	8.605	5.821	34.9	No	23	7.213	2.662	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-12	3.199	2.332	34.9	No	22	2.765	0.8081	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-14	6.982	3.958	34.9	No	23	5.47	2.891	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-17	6.638	3.922	34.9	No	23	5.28	2.596	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DPZ-02	9.254	5.841	34.9	No	11	7.547	2.048	0	None	No	0.01	Param.
Fluoride (mg/L)	MCM-04	0.12	0.0941	4	No	23	0.1222	0.1057	52.17	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MCM-05	0.5353	0.307	4	No	25	0.4212	0.229	12	None	No	0.01	Param.
Fluoride (mg/L)	MCM-06	0.3127	0.1191	4	No	23	0.2762	0.2343	34.78	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MCM-07	0.692	0.1	4	No	24	0.3859	0.3228	33.33	None	No	0.01	NP (normality)
Fluoride (mg/L)	MCM-12	1.339	1.084	4	No	23	1.179	0.3147	4.348	None	x^2	0.01	Param.
Fluoride (mg/L)	MCM-14	0.273	0.1	4	No	25	0.2057	0.1682	52	None	No	0.01	NP (NDs)

Appendix IV Confidence Intervals - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	MCM-17	0.8666	0.3819	4	No	24	0.6941	0.5004	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	DPZ-02	0.37	0.1	4	No	11	0.1881	0.215	72.73	Kaplan-Meier	No	0.006	NP (NDs)
Lead (mg/L)	MCM-05	0.002	0.0002	0.015	No	23	0.001922	0.0003753	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-06	0.002	0.00012	0.015	No	23	0.001918	0.000392	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-07	0.002	0.0002	0.015	No	22	0.001745	0.0006583	86.36	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-12	0.002	0.00083	0.015	No	22	0.001547	0.0007766	72.73	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-14	0.002	0.00008	0.015	No	22	0.001913	0.0004093	95.45	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-17	0.002	0.00034	0.015	No	22	0.001758	0.0006237	86.36	None	No	0.01	NP (NDs)
Lithium (mg/L)	MCM-04	0.01	0.002	0.049	No	22	0.007068	0.003998	63.64	None	No	0.01	NP (NDs)
Lithium (mg/L)	MCM-05	0.0376	0.022	0.049	No	23	0.05373	0.113	0	None	No	0.01	NP (normality)
Lithium (mg/L)	MCM-06	0.06349	0.03943	0.049	No	7	0.05146	0.01013	0	None	No	0.01	Param.
Lithium (mg/L)	MCM-07	0.03892	0.01944	0.049	No	24	0.03557	0.03138	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	MCM-12	0.01132	0.009181	0.049	No	22	0.01005	0.00235	13.64	None	x^2	0.01	Param.
Lithium (mg/L)	MCM-14	0.04084	0.02325	0.049	No	24	0.03205	0.01723	8.333	None	No	0.01	Param.
Lithium (mg/L)	MCM-17	0.02548	0.01678	0.049	No	22	0.02113	0.008105	4.545	None	No	0.01	Param.
Lithium (mg/L)	**DPZ-02**	**0.09138**	**0.07093**	**0.049**	**Yes**	**13**	**0.07724**	**0.02433**	**7.692**	**None**	**x^3**	**0.01**	**Param.**
Mercury (mg/L)	MCM-04	0.00071	0.0002	0.002	No	20	0.0002255	0.000114	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-05	0.0002	0.000042	0.002	No	20	0.0001921	0.00003533	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-06	0.0002	0.00016	0.002	No	21	0.0001981	0.000008729	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-07	0.00067	0.0002	0.002	No	20	0.0002235	0.0001051	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-14	0.00066	0.0002	0.002	No	20	0.000223	0.0001029	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-17	0.00064	0.0002	0.002	No	20	0.000222	0.00009839	95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-04	0.001	0.000218	0.1	No	20	0.0009184	0.0002514	90	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-05	0.02	0.00113	0.1	No	20	0.01198	0.009287	55	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-06	0.02	0.000983	0.1	No	21	0.01024	0.009543	47.62	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MCM-07	0.02	0.00095	0.1	No	20	0.01331	0.009349	65	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-12	0.015	0.00044	0.1	No	20	0.01062	0.006858	70	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-17	0.00102	0.000313	0.1	No	20	0.0008551	0.0003003	75	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	DPZ-02	0.005	0.000217	0.1	No	9	0.002907	0.002482	55.56	None	No	0.002	NP (NDs)
Selenium (mg/L)	MCM-04	0.005	0.0025	0.05	No	22	0.004455	0.001462	86.36	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-05	0.025	0.0028	0.05	No	23	0.02105	0.008808	82.61	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-06	0.025	0.0054	0.05	No	23	0.01757	0.0105	65.22	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-07	0.025	0.0025	0.05	No	22	0.01594	0.01117	59.09	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-12	0.005	0.002	0.05	No	22	0.003853	0.001568	63.64	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-14	0.025	0.0057	0.05	No	22	0.01892	0.01019	72.73	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-17	0.025	0.003	0.05	No	22	0.01718	0.0107	63.64	None	No	0.01	NP (NDs)
Selenium (mg/L)	DPZ-02	0.025	0.00205	0.05	No	11	0.0208	0.009343	81.82	None	No	0.006	NP (NDs)
Thallium (mg/L)	MCM-06	0.002	0.000076	0.002	No	21	0.001908	0.0004199	95.24	None	No	0.01	NP (NDs)

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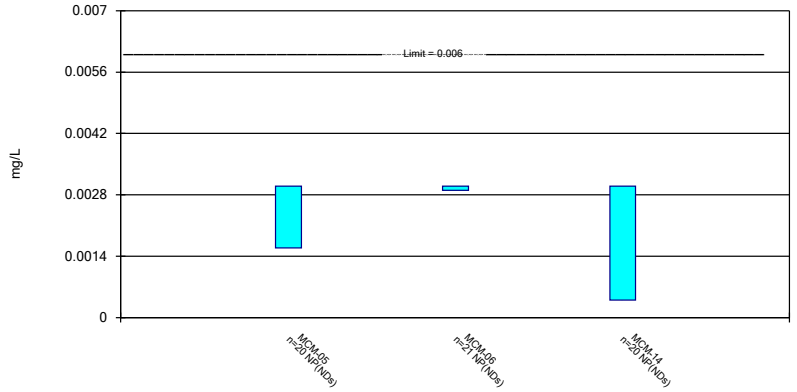
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 11/10/2025 3:41 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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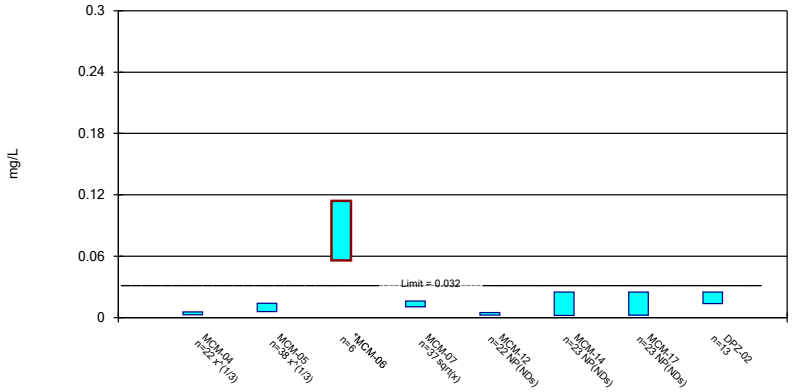
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/10/2025 3:41 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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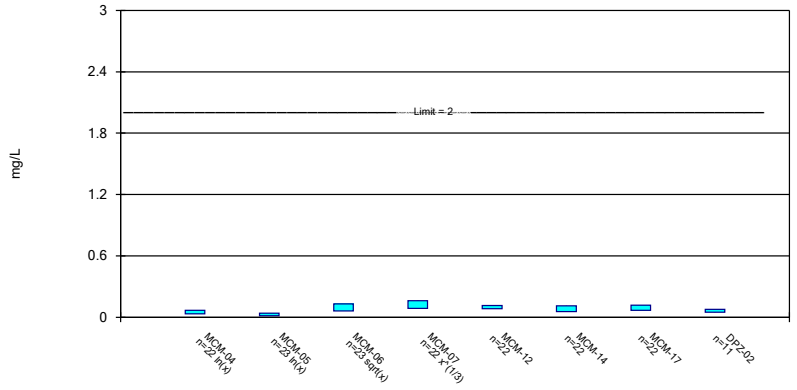
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/10/2025 3:41 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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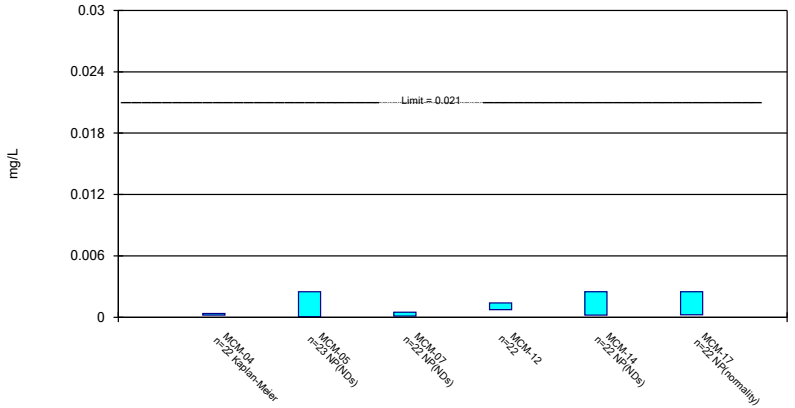
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/10/2025 3:41 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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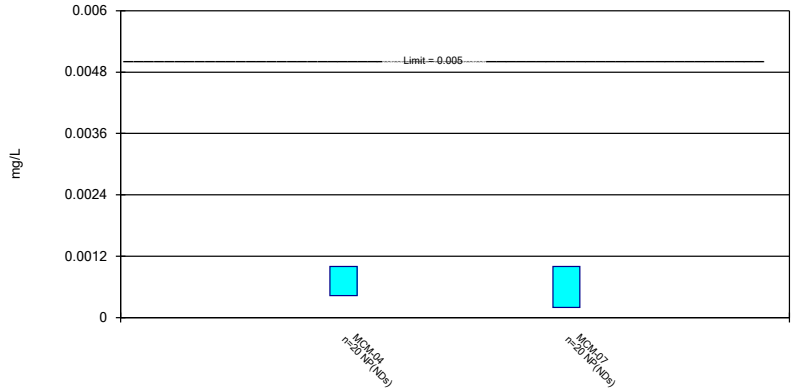
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 11/10/2025 3:41 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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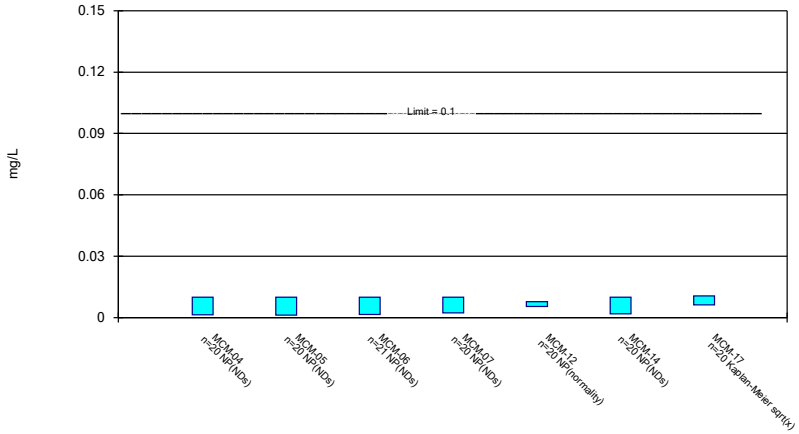
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/10/2025 3:41 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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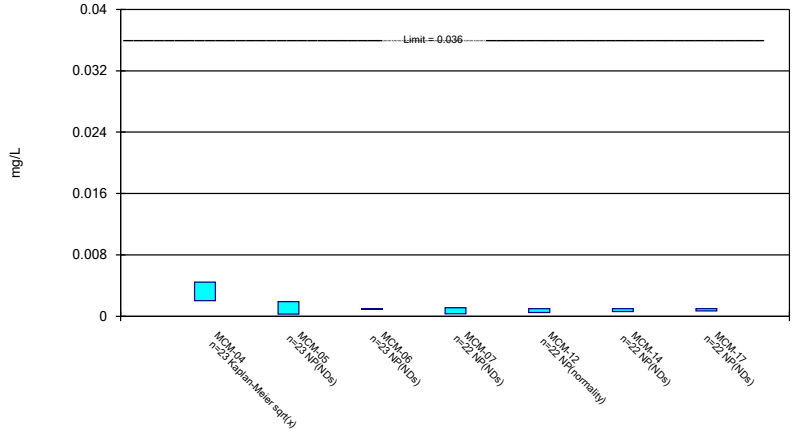
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/10/2025 3:41 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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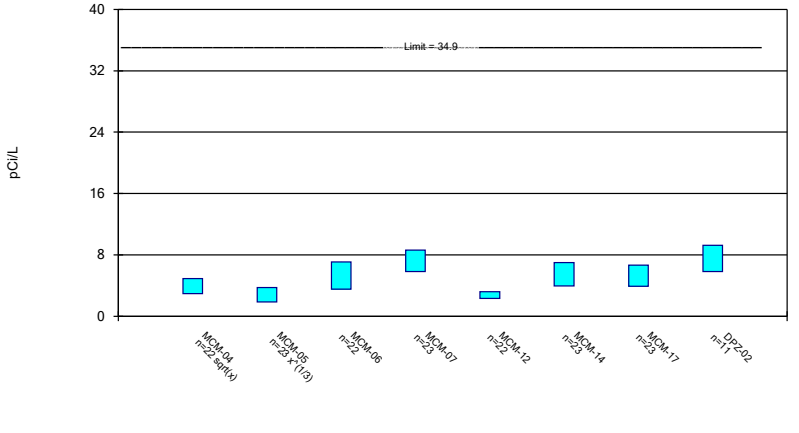
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/10/2025 3:41 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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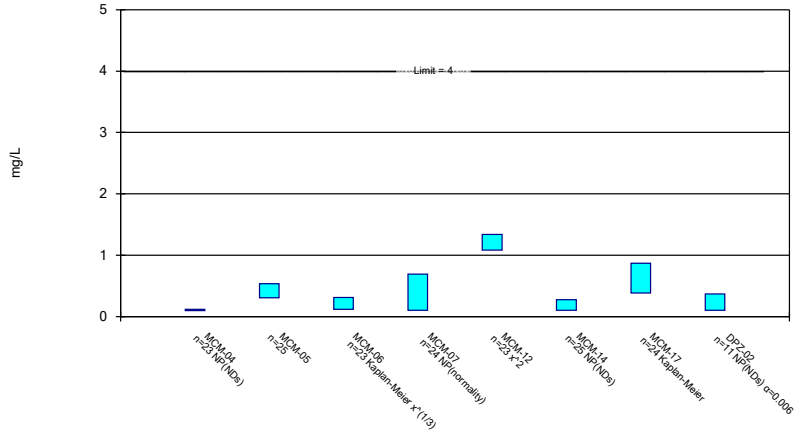
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/10/2025 3:41 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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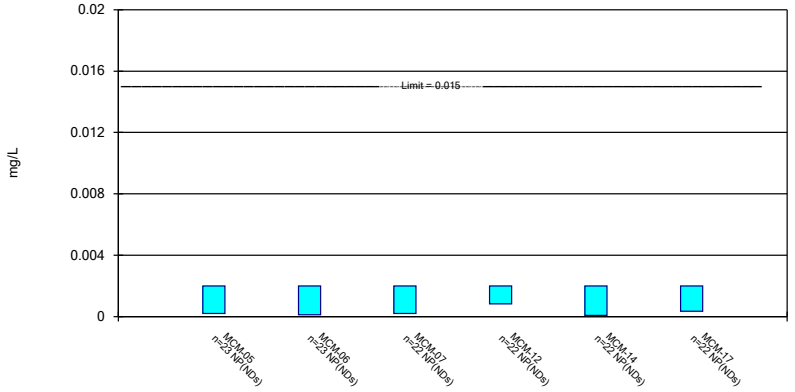
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/10/2025 3:41 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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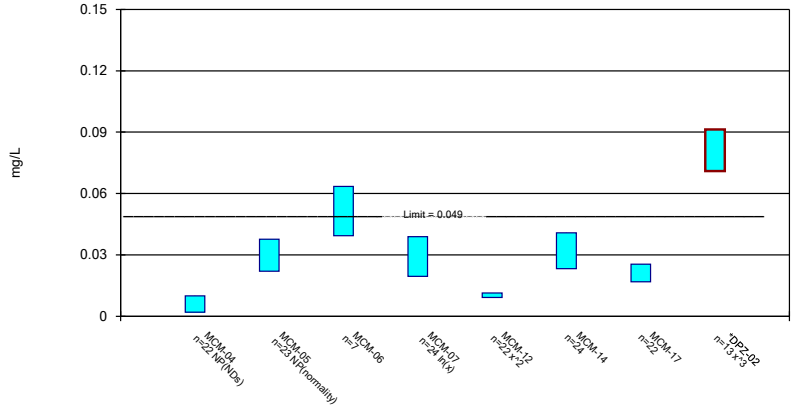
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/10/2025 3:41 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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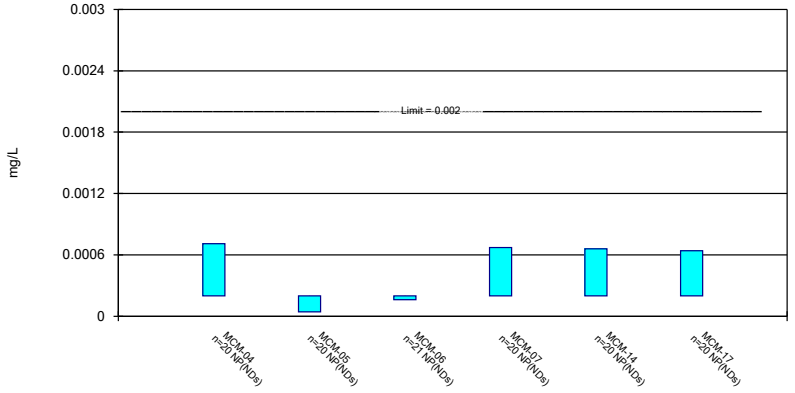
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 11/10/2025 3:41 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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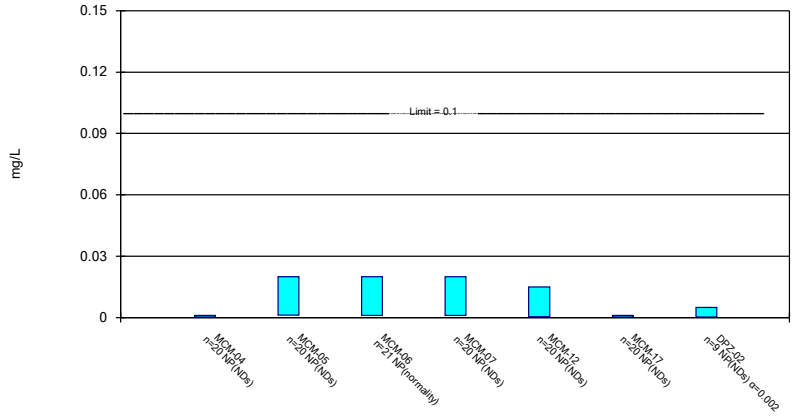
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

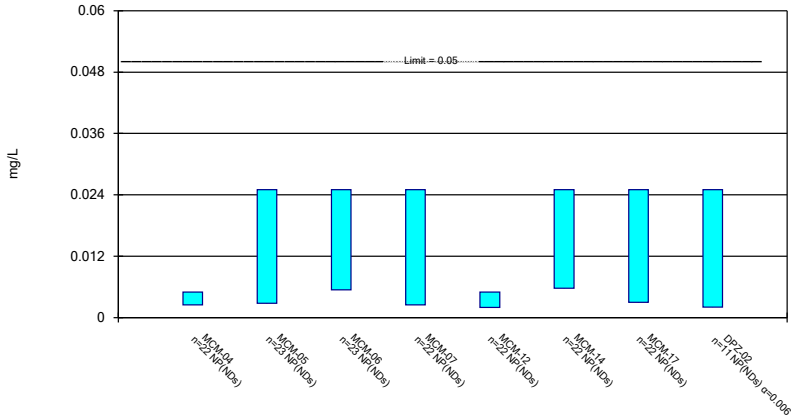


Constituent: Molybdenum Analysis Run 11/10/2025 3:41 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Selenium Analysis Run 11/10/2025 3:41 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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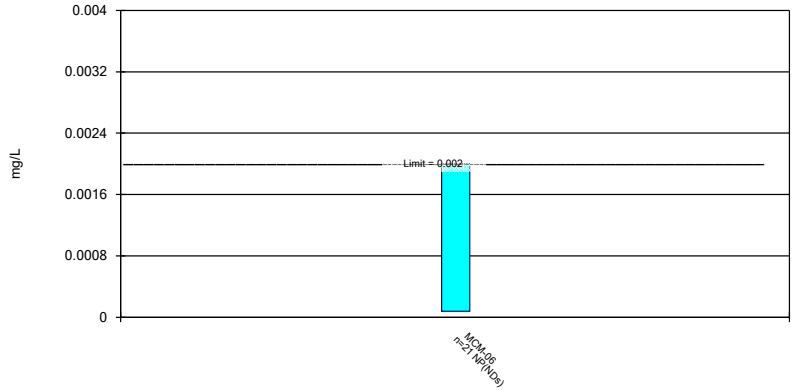
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/10/2025 3:41 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

	MCM-05	MCM-06	MCM-14
8/30/2016			<0.003
8/31/2016	<0.003	<0.003	
11/30/2016	<0.003	<0.003	<0.003
2/15/2017			<0.003
2/16/2017	<0.003	<0.003	
5/31/2017			<0.003
6/2/2017	<0.003	<0.003	
8/16/2017			<0.003
8/17/2017	<0.003	<0.003	
6/19/2018			<0.003
6/20/2018	<0.003	<0.003	
9/25/2018			<0.003
9/27/2018	<0.003	<0.003	
11/6/2018			<0.003
11/7/2018	<0.003	<0.003	
3/6/2019		<0.003	
8/26/2019			0.0004 (J)
8/28/2019	<0.003	0.00098 (J)	
10/15/2019			<0.003
10/16/2019	<0.003		
10/17/2019		0.0009 (J)	
3/27/2020			<0.003
3/28/2020	<0.003	0.0029 (J)	
9/13/2021			<0.003
9/14/2021	<0.003	<0.003	
3/1/2022	<0.003	<0.003	
3/3/2022			<0.003
9/20/2022		<0.003	
9/21/2022	<0.003		<0.003
3/2/2023	<0.003	<0.003	<0.003
9/12/2023	<0.003		<0.003
9/14/2023		<0.003	
3/20/2024			<0.003
3/21/2024	<0.003	<0.003	
9/11/2024	<0.003		<0.003
9/12/2024		<0.003	
3/17/2025			<0.003
3/19/2025	0.00142 (J)	<0.003	
9/9/2025	0.00159 (J)	<0.003	<0.003
Mean	0.002851	0.002799	0.00287
Std. Dev.	0.000461	0.0006186	0.0005814
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.00159	0.0029	0.0004

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.005	<0.025		
8/31/2016		<0.02	0.212	0.0066				
10/25/2016							<0.025	
11/30/2016		0.0132	0.129	0.0281	<0.005	<0.025	0.0072	
2/15/2017					<0.005	<0.025	0.0017 (J)	
2/16/2017		0.0372	0.257	0.0295				
5/31/2017					0.0007 (J)	0.0008 (J)	0.0018 (J)	
6/1/2017	0.004 (J)							
6/2/2017		0.0335	0.0559	0.0286				
8/2/2017	0.0028 (J)							
8/15/2017					0.0006 (J)		0.0015 (J)	
8/16/2017						0.0007 (J)		
8/17/2017	0.0021 (J)	0.0336	0.458	0.0211				
2/20/2018		0.0267	0.305	0.0271				
4/4/2018	0.0023 (J)							
4/30/2018		0.025 (J)	0.36	0.016 (J)				
5/8/2018	0.0048 (J)							
6/19/2018					0.001 (J)	0.0062 (J)	0.0029 (J)	
6/20/2018	0.0099	0.019	0.44					
6/21/2018				0.022 (J)				
7/24/2018		0.0079	0.45	0.014				
8/28/2018		0.0079	0.36	0.014				
9/25/2018					0.0011 (J)	0.0031 (J)		
9/26/2018							0.0015 (J)	
9/27/2018	0.01	0.0035 (J)	0.27	0.015				
10/30/2018		0.0029 (J)	0.42	0.0061				
11/6/2018	0.013			0.012		0.0014 (J)	<0.025	
11/7/2018		0.002 (J)	0.5		<0.005			
11/27/2018		0.0016 (J)	0.5	0.011				
12/18/2018		0.0043 (J)	0.6	0.018				
1/22/2019		0.0028 (J)	0.48	0.0097				
2/22/2019		0.00095 (J)	0.46	0.024 (J)				
3/6/2019			0.49					
3/26/2019		0.0018 (J)	0.3	0.0078				
6/4/2019		0.0019 (J)	0.41	0.017				
7/2/2019		0.0024 (J)	0.37	0.027				
7/29/2019		0.0021 (J)	0.45	0.0053				
8/26/2019		0.0021 (J)	0.46	0.0052		0.0022 (J)		
8/27/2019	0.0072				0.0011 (J)		0.0024 (J)	
8/28/2019		0.0019 (J)	0.5	0.011				
9/30/2019		0.002 (J)		0.0036 (J)				
10/2/2019			0.6					
10/15/2019	0.0038 (J)				0.0024 (J)	0.0067		
10/16/2019		0.0047 (J)					0.0043 (J)	
10/17/2019			0.34	0.0046 (J)				
11/21/2019							0.0031 (J)	
3/27/2020					<0.005	<0.025	<0.025	
3/28/2020	0.0034 (J)	<0.02	0.3	0.012				<0.005
6/16/2020			0.51					
10/12/2020					<0.005			
10/13/2020	0.0022 (J)					<0.025	<0.025	
10/14/2020			0.44 (D)	0.013		<0.025		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
10/15/2020		0.024						0.021
1/4/2021		0.0072						
3/2/2021					<0.005	<0.025		
3/3/2021							<0.025	
3/4/2021	0.0018 (J)	<0.02	0.35	0.015 (J)				0.017 (J)
9/13/2021					<0.005	<0.025		
9/14/2021	0.0047 (J)	0.02 (J)	0.51	0.013 (J)			<0.025	0.022
3/1/2022		0.011 (J)	0.24					0.015 (J)
3/2/2022				0.009 (J)				
3/3/2022	0.0041				<0.005	<0.025	<0.025	
6/28/2022			0.17					0.025
9/20/2022			0.18					0.021
9/21/2022	0.0017 (J)	0.0077		0.01	<0.005	<0.025	<0.025	
2/28/2023					<0.005		0.00226 (J)	
3/1/2023	0.00247 (J)							
3/2/2023		0.00578 (J)	0.0764	0.014		0.00201 (J)		0.0202
9/12/2023		0.0113			0.00234 (J)	0.00263 (J)		
9/13/2023	0.00601			0.0117			0.00283 (J)	
9/14/2023			0.0653					0.0254
3/19/2024					<0.005		<0.025	
3/20/2024	<0.005					<0.025		
3/21/2024		0.017	0.0675	0.0107 (J)				0.0163 (J)
9/10/2024	<0.005				<0.005		<0.025	
9/11/2024		0.0249		0.00833		0.00215 (J)		0.0121
9/12/2024			0.107					
3/17/2025					<0.005	<0.025		
3/18/2025							<0.025	0.0185
3/19/2025		0.0447	0.116	0.0106				
3/20/2025	<0.005							
9/9/2025		0.0629	0.0777		<0.005	<0.025		
9/10/2025	0.00382 (J)							0.0351
9/11/2025				0.0104 (J)			<0.025	
Mean	0.004436	0.01335	0.08498	0.01411	0.003829	0.01534	0.01441	0.01932
Std. Dev.	0.003038	0.01423	0.02129	0.007271	0.001799	0.01134	0.01136	0.007642
Upper Lim.	0.005379	0.01406	0.1142	0.01614	0.005	0.025	0.025	0.025
Lower Lim.	0.002771	0.005746	0.05573	0.0106	0.00234	0.0022	0.0024	0.01363

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.108	0.0131		
8/31/2016		0.0289	0.0498	0.0771				
10/25/2016							0.063	
11/30/2016		0.0168	0.0528	0.101	0.121	0.0105	0.0628	
2/15/2017					0.111	0.0786	0.0102	
2/16/2017		0.016	0.0555	0.0865				
5/31/2017					0.131	0.0199	0.061	
6/1/2017	0.0195							
6/2/2017		0.0393 (J)	0.0508	0.123				
8/2/2017	0.053							
8/15/2017					0.126		0.0579	
8/16/2017						0.033		
8/17/2017	0.0475	0.0188	0.0596	0.124				
4/4/2018	0.035							
5/8/2018	0.027							
6/19/2018					0.13	0.092	0.076	
6/20/2018	0.027	0.014	0.06					
6/21/2018				0.1				
9/25/2018					0.12	0.098		
9/26/2018							0.099	
9/27/2018	0.14	0.0097 (J)	0.06	0.12				
11/6/2018	0.31			0.12		0.1	0.052	
11/7/2018		0.0085 (J)	0.19		0.11			
3/6/2019			0.16					
8/26/2019						0.12		
8/27/2019	0.083				0.14		0.11	
8/28/2019		0.011	0.13	0.4				
10/15/2019	0.082				0.14	0.12		
10/16/2019		0.012					0.14	
10/17/2019			0.13	0.35				
3/27/2020					0.12	0.13	0.16	
3/28/2020	0.039	0.0041 (J)	0.12	0.11				
10/12/2020					0.1			
10/13/2020	0.055					0.14	0.14	
10/14/2020			0.14	0.19				
10/15/2020		0.45						0.071
1/4/2021		0.051						
3/2/2021					0.1	0.16		
3/3/2021							0.17	
3/4/2021	0.062	0.0082 (J)	0.14	0.2				0.096
9/13/2021					0.086	0.16		
9/14/2021	0.043	0.08	0.22	0.2			0.2	0.082
3/1/2022		0.035	0.084					0.074
3/2/2022				0.12				
3/3/2022	0.031				0.069	0.15	0.1	
9/20/2022			0.027					0.069
9/21/2022	0.029	0.014		0.12	0.068	0.059	0.089	
2/28/2023					0.071 (J)		0.0828 (J)	
3/1/2023	0.031 (J)							
3/2/2023		0.0133 (J)	0.0195 (J)	0.0982 (J)		0.0356 (J)		0.0601 (J)
9/12/2023		0.0257			0.074	0.0306		
9/13/2023	0.0358			0.0745			0.0706	

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/14/2023			0.0456					0.0583
3/19/2024					0.0661		0.0776	
3/20/2024	0.0501					0.026		
3/21/2024		0.0287	0.0352	0.0493				0.0473
9/10/2024	0.063				0.0633		0.0724	
9/11/2024		0.023		0.0454		0.0279		0.0398
9/12/2024			0.0727					
3/17/2025					0.0658	0.109		
3/18/2025							0.0751	0.0462
3/19/2025		0.065	0.155	0.0492				
3/20/2025	0.0383							
9/9/2025		0.0834	0.338		0.0611	0.121		
9/10/2025	0.0285							0.0463
9/11/2025				0.0733			0.0682	
Mean	0.06044	0.04593	0.1042	0.1333	0.09915	0.08337	0.09262	0.06273
Std. Dev.	0.06177	0.09089	0.07529	0.08979	0.02771	0.05153	0.0446	0.01745
Upper Lim.	0.06605	0.03962	0.1307	0.1612	0.114	0.111	0.1166	0.07727
Lower Lim.	0.03398	0.01387	0.06143	0.08499	0.08428	0.05572	0.06868	0.04818

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016				0.0003 (J)	<0.0025	
8/31/2016		<0.0025	<0.0005			
10/25/2016						0.0004 (J)
11/30/2016		<0.0025	<0.0005	0.0004 (J)	<0.0025	0.0003 (J)
2/15/2017				0.0004 (J)	<0.0025	<0.0025
2/16/2017		<0.0025	<0.0005			
5/31/2017				0.0005 (J)	0.0001 (J)	0.0002 (J)
6/1/2017	0.0001 (J)					
6/2/2017		<0.0025	<0.0005			
8/2/2017	0.0003 (J)					
8/15/2017				0.0005 (J)		0.0002 (J)
8/16/2017					0.0002 (J)	
8/17/2017	0.0002 (J)	<0.0025	<0.0005			
4/4/2018	<0.0005					
5/8/2018	0.00025 (J)					
6/19/2018				0.00065 (J)	<0.0025	0.00032 (J)
6/20/2018	0.00021 (J)	<0.0025				
6/21/2018			<0.0005			
9/25/2018				0.00066 (J)	5E-05 (J)	
9/26/2018						0.00024 (J)
9/27/2018	0.00031 (J)	<0.0025	7.4E-05 (J)			
11/6/2018	0.00077 (J)		0.00012 (J)		9.7E-05 (J)	0.00026 (J)
11/7/2018		5.4E-05 (J)		0.00058 (J)		
8/26/2019					0.0001 (J)	
8/27/2019	0.00032 (J)			0.0009 (J)		0.00018 (J)
8/28/2019		<0.0025	<0.0005			
10/15/2019	0.00035 (J)			0.00079 (J)	<0.0025	
10/16/2019		<0.0025				0.00014 (J)
10/17/2019			7.8E-05 (J)			
3/27/2020				<0.005	<0.0025	<0.0025
3/28/2020	<0.0005	<0.0025	<0.0005			
10/12/2020				0.001 (J)		
10/13/2020	<0.0005				<0.0025	<0.0025
10/14/2020			<0.0005			
10/15/2020		<0.0025				
1/4/2021		<0.0025				
3/2/2021				<0.005	<0.0025	
3/3/2021						<0.0025
3/4/2021	<0.0005	<0.0025	<0.0005			
9/13/2021				0.0011	<0.0025	
9/14/2021	<0.0005	<0.0025	<0.0005			<0.0025
3/1/2022		<0.0025				
3/2/2022			<0.0005			
3/3/2022	0.00025			0.0012 (J)	<0.0025	<0.0025
9/21/2022	<0.0005	<0.0025	<0.0005	0.0011 (J)	<0.0025	0.00029 (J)
2/28/2023				0.00135 (J)		0.000279 (J)
3/1/2023	<0.0005					
3/2/2023		<0.0025	<0.0005		<0.0025	
9/12/2023		<0.0025		0.00137	<0.0025	
9/13/2023	<0.0005		<0.0005			0.000249 (J)
3/19/2024				0.00145		<0.0025
3/20/2024	0.000208 (J)				<0.0025	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-07	MCM-12	MCM-14	MCM-17
3/21/2024		<0.0025	<0.0005			
9/10/2024	0.000321 (J)			0.00137		<0.0025
9/11/2024		<0.0025	<0.0005		<0.0025	
3/17/2025				0.00148	<0.0025	
3/18/2025						0.000228 (J)
3/19/2025		<0.0025	<0.0005			
3/20/2025	0.000323 (J)					
9/9/2025		<0.0025		0.00155	<0.0025	
9/10/2025	<0.0005					
9/11/2025			<0.0005			<0.0025
Mean	0.0003824	0.002394	0.0004442	0.001075	0.001957	0.001172
Std. Dev.	0.0001554	0.00051	0.000144	0.0006074	0.001026	0.001132
Upper Lim.	0.0003618	0.0025	0.0005	0.001401	0.0025	0.0025
Lower Lim.	0.0002106	5.4E-05	0.00012	0.000749	0.0002	0.00024

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-07
8/31/2016		<0.001
11/30/2016		<0.001
2/16/2017		<0.001
6/1/2017	<0.001	
6/2/2017		<0.001
8/2/2017	<0.001	
8/17/2017	<0.001	<0.001
4/4/2018	<0.001	
5/8/2018	<0.001	
6/20/2018	<0.001	
6/21/2018		<0.001
9/27/2018	<0.001	<0.001
11/6/2018	<0.001	<0.001
8/27/2019	<0.001	
8/28/2019		<0.001
10/15/2019	<0.001	
10/17/2019		<0.001
3/28/2020	<0.001	<0.001
9/14/2021	<0.001	<0.001
3/2/2022		<0.001
3/3/2022	0.00043	
9/21/2022	<0.001	0.0002 (J)
3/1/2023	<0.001	
3/2/2023		<0.001
9/13/2023	<0.001	<0.001
3/20/2024	<0.001	
3/21/2024		<0.001
9/10/2024	<0.001	
9/11/2024		<0.001
3/19/2025		<0.001
3/20/2025	<0.001	
9/10/2025	<0.001	
9/11/2025		<0.001
Mean	0.0009715	0.00096
Std. Dev.	0.0001275	0.0001789
Upper Lim.	0.001	0.001
Lower Lim.	0.00043	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016					0.0054 (J)	0.0026 (J)	
8/31/2016		0.0013 (J)	0.001 (J)	0.0022 (J)			
10/25/2016							0.016
11/30/2016		0.0012 (J)	<0.01	<0.01	0.0073 (J)	0.0016 (J)	0.0151 (J)
2/15/2017					0.0045 (J)	0.0018 (J)	0.0137
2/16/2017		0.0012 (J)	0.0011 (J)	0.0028 (J)			
5/31/2017					0.0052 (J)	0.0019 (J)	0.0109
6/1/2017	0.0008 (J)						
6/2/2017		<0.01	<0.01	0.0023 (J)			
8/2/2017	0.0012 (J)						
8/15/2017					0.005 (J)		0.0117
8/16/2017						0.0019 (J)	
8/17/2017	0.0013 (J)	0.0007 (J)	0.0007 (J)	0.0022 (J)			
4/4/2018	<0.01						
5/8/2018	<0.01						
6/19/2018					0.0047 (J)	<0.01	0.013 (J)
6/20/2018	<0.01	<0.01	<0.01				
6/21/2018				<0.01			
9/25/2018					<0.02	<0.01	
9/26/2018							0.0092 (J)
9/27/2018	<0.01	<0.01	<0.01	0.0024 (J)			
11/6/2018	0.0017 (J)			0.002 (J)		<0.01	<0.02
11/7/2018		<0.01	<0.01		<0.02		
3/6/2019			<0.01				
8/26/2019						0.00071 (J)	
8/27/2019	0.0018 (J)				0.0056 (J)		0.0066 (J)
8/28/2019		0.00047 (J)	0.00085 (J)	0.0024 (J)			
10/15/2019	0.0012 (J)				0.0057 (J)	0.00076 (J)	
10/16/2019		0.00057 (J)					0.0063 (J)
10/17/2019			0.0015 (J)	0.0019 (J)			
3/27/2020					<0.02	<0.01	<0.02
3/28/2020	<0.01	<0.01	<0.01	<0.01			
9/13/2021					<0.02	<0.01	
9/14/2021	<0.01	<0.01	<0.01	<0.01			<0.02
3/1/2022		<0.01	<0.01				
3/2/2022				<0.01			
3/3/2022	0.00085 (J)				<0.02	<0.01	<0.02
9/20/2022			<0.01				
9/21/2022	0.0015 (J)	0.0016 (J)		0.0027 (J)	0.0077 (J)	0.0015 (J)	0.0063 (J)
2/28/2023					0.00663 (J)		0.00623 (J)
3/1/2023	<0.01						
3/2/2023		<0.01	<0.01	<0.01		<0.01	
9/12/2023		<0.01			0.00703 (J)	<0.01	
9/13/2023	<0.01			<0.01			0.00608 (J)
9/14/2023			<0.01				
3/19/2024					0.00689 (J)		0.00466 (J)
3/20/2024	<0.01					<0.01	
3/21/2024		<0.01	<0.01	<0.01			
9/10/2024	<0.01				0.00672 (J)		0.00441 (J)
9/11/2024		<0.01		<0.01		<0.01	
9/12/2024			<0.01				
3/17/2025					0.00739 (J)	<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
3/18/2025							0.00481 (J)
3/19/2025		<0.01	<0.01	<0.01			
3/20/2025	<0.01						
9/9/2025		<0.01	<0.01		0.00736 (J)	<0.01	
9/10/2025	0.00448 (J)						
9/11/2025				<0.01			0.00513 (J)
Mean	0.006241	0.006852	0.007864	0.006545	0.009656	0.006638	0.01101
Std. Dev.	0.004324	0.004408	0.003917	0.003924	0.006198	0.004241	0.005839
Upper Lim.	0.01	0.01	0.01	0.01	0.0077	0.01	0.01054
Lower Lim.	0.0013	0.0012	0.0015	0.0023	0.0054	0.0018	0.006259

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016					<0.001	0.0006 (J)	
8/31/2016		<0.001	<0.001	<0.001			
10/25/2016							<0.001
11/30/2016		<0.001	0.0009 (J)	0.0011 (J)	<0.001	<0.001	0.0007 (J)
2/15/2017					<0.001	<0.001	<0.001
2/16/2017		<0.001	<0.001	<0.001			
5/31/2017					0.0005 (J)	<0.001	<0.001
6/1/2017	<0.001						
6/2/2017		<0.001	<0.001	<0.001			
8/2/2017	<0.001						
8/15/2017					0.0005 (J)		0.0004 (J)
8/16/2017						<0.001	
8/17/2017	<0.001	<0.001	0.0003 (J)	<0.001			
4/4/2018	<0.001						
5/8/2018	<0.001						
6/19/2018					0.00053 (J)	<0.001	<0.001
6/20/2018	<0.001	<0.001	<0.001				
6/21/2018				<0.001			
9/25/2018					<0.001	<0.001	
9/26/2018							<0.001
9/27/2018	<0.001	<0.001	<0.001	<0.001			
11/6/2018	0.0048 (J)			<0.001		<0.001	<0.001
11/7/2018		<0.001	<0.001		<0.001		
3/6/2019			<0.001				
8/26/2019						<0.001	
8/27/2019	0.0078				0.0007 (J)		<0.001
8/28/2019		<0.001	<0.001	<0.001			
10/15/2019	0.0085				0.00054 (J)	<0.001	
10/16/2019		<0.001					<0.001
10/17/2019			<0.001	<0.001			
11/20/2019	0.009						
3/27/2020					<0.001	<0.001	<0.001
3/28/2020	0.0041 (J)	<0.001	<0.001	<0.001			
10/12/2020					<0.001		
10/13/2020	0.0063					<0.001	<0.001
10/14/2020			<0.001	<0.001			
10/15/2020		0.0019 (J)					
1/4/2021		<0.001					
3/2/2021					<0.001	<0.001	
3/3/2021							<0.001
3/4/2021	0.006	<0.001	<0.001	<0.001			
9/13/2021					<0.001	<0.001	
9/14/2021	0.0054	<0.001	<0.001	<0.001			<0.001
3/1/2022		<0.001	<0.001				
3/2/2022				<0.001			
3/3/2022	0.0049				<0.001	<0.001	<0.001
9/20/2022			<0.001				
9/21/2022	0.0025	0.00026 (J)		0.00031 (J)	0.00042 (J)	<0.001	0.00025 (J)
2/28/2023					0.00052 (J)		<0.001
3/1/2023	0.00256 (J)						
3/2/2023		<0.001	<0.001	<0.001		<0.001	
9/12/2023		<0.001			0.000429 (J)	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
9/13/2023	0.00341			<0.001			<0.001
9/14/2023			<0.001				
3/19/2024					0.000452 (J)		<0.001
3/20/2024	0.00291					<0.001	
3/21/2024		<0.001	<0.001	<0.001			
9/10/2024	0.00238				0.000453 (J)		<0.001
9/11/2024		<0.001		<0.001		<0.001	
9/12/2024			<0.001				
3/17/2025					0.000481 (J)	<0.001	
3/18/2025							<0.001
3/19/2025		<0.001	<0.001	<0.001			
3/20/2025	0.00268						
9/9/2025		<0.001	<0.001		0.000456 (J)	<0.001	
9/10/2025	0.00158						
9/11/2025				<0.001			<0.001
Mean	0.003557	0.001007	0.0009652	0.0009732	0.0007264	0.0009818	0.000925
Std. Dev.	0.002585	0.0002483	0.0001465	0.0001496	0.0002613	8.528E-05	0.0002057
Upper Lim.	0.004464	0.0019	0.001	0.0011	0.001	0.001	0.001
Lower Lim.	0.002007	0.00026	0.0009	0.00031	0.000481	0.0006	0.0007

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					1.4	1.31		
8/31/2016		2.39	2.47	5.4				
10/25/2016							2.22	
11/30/2016		1.66	1.6	3.13	4.37	0.438	2.01	
2/15/2017					2.21	0.3	1.56	
2/16/2017		2.71	1.83	3.09				
5/31/2017					2.62	1.77	1.92	
6/1/2017	1.9							
6/2/2017		1.99	2.45	7.56				
8/2/2017	5.01							
8/15/2017					2.69		2.47	
8/16/2017						2.26		
8/17/2017	5.35	1.87	3.33	6.38				
4/4/2018	5.05							
5/8/2018	3.25							
6/19/2018					2.96	5.39	2.82	
6/20/2018	3.53	1.95	2.84					
6/21/2018				5.24				
9/25/2018					2.23	6.22		
9/26/2018							3.15 (D)	
9/27/2018	7.07	0.629 (U)	1.94	6.11				
11/6/2018	11			6.1		5.38	2.95	
11/7/2018		1.41 (U)	8.58		2.14			
8/26/2019						7.68		
8/27/2019	4.4				2.91		5.82	
8/28/2019		1.67	6.86	8.73				
10/15/2019	4.92				3.28	8.7		
10/16/2019		1.92					7.5	
10/17/2019			7.85	7.97				
11/20/2019				9.8				
11/21/2019						7.34	8.89	
3/27/2020					2.33	9.63	9.54	
3/28/2020	4.16	1.44 (U)	11	11.7				
10/12/2020					2.66			
10/13/2020	3.71					7.43	7.75	
10/14/2020			8.97	13.1				
10/15/2020		2.56						6.65
1/4/2021		5.84						
4/6/2021	2.83	1.43 (U)	7.89	9.66	2.2	7.02	7.8	7.33
9/13/2021					2.54	8.38		
9/14/2021	2.69	7.15	8.11	10.3			8.82	6.97
3/1/2022		8.16 (U)	5.83					9.03
3/2/2022				5.66				
3/3/2022	2.51				3.56 (U)	8	9.1	
9/20/2022			1.51					8.2
9/21/2022	1.67	1.42		8.23	1.54	4.52	5.26	
2/28/2023					2.29		5.48	
3/1/2023	5.05							
3/2/2023		2.22	1.79	4.5		8.08		9.42
9/12/2023		4.42			3.43	5.46		
9/13/2023	2.05			10.3			4.44	
9/14/2023			3.61					11.7

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/19/2024					2.79		5.64	
3/20/2024	2.61					2.14		
3/21/2024		2.48	2.73	6.37				4.89
9/10/2024	4.33				4.8		4.29	
9/11/2024		2.55		5.35		3.4		7.95
9/12/2024			5.25					
3/17/2025					3.37	6.6		
3/18/2025							6.41	4.64
3/19/2025		5.29	8.33	4.55				
3/20/2025	3.92							
9/9/2025		7.73	11.8		2.52	8.36		
9/10/2025	2.28							6.24
9/11/2025				6.67			5.59	
Mean	4.059	3.082	5.299	7.213	2.765	5.47	5.28	7.547
Std. Dev.	2.062	2.203	3.318	2.662	0.8081	2.891	2.596	2.048
Upper Lim.	4.894	3.731	7.08	8.605	3.199	6.982	6.638	9.254
Lower Lim.	2.935	1.843	3.518	5.821	2.332	3.958	3.922	5.841

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					1.5	0.5		
8/31/2016		0.93	0.41	0.92				
10/25/2016							1.1	
11/30/2016		0.93	0.61	0.99	1.4	0.49	1.3	
2/15/2017					1.3	0.58	1.3	
2/16/2017		0.6	0.3 (J)	0.54				
5/31/2017					1.2	0.56	1.3	
6/1/2017	<0.1							
6/2/2017		0.34	0.19 (J)	0.42				
8/2/2017	0.27 (J)							
8/15/2017					1.2		1.2	
8/16/2017						0.45		
8/17/2017	0.18 (J)	0.52	0.26 (J)	0.27 (J)				
4/4/2018	<0.1							
5/8/2018	0.56							
6/19/2018					0.91	<0.1	0.6	
6/20/2018	0.033 (J)	0.5	0.22 (J)					
6/21/2018				0.28 (J)				
9/25/2018					1.1	<0.1		
9/26/2018							0.44 (D)	
9/27/2018	0.12 (J)	0.32	0.068 (J)	0.32				
11/6/2018	<0.1			0.086 (J)		0.084 (J)	0.4	
11/7/2018		0.35	10.3 (O)		<0.1			
3/6/2019			<0.1					
3/24/2019		0.32	0.19 (J)	0.14 (J)	0.99	0.14 (J)	0.31	
3/25/2019	0.055 (J)							
8/26/2019						<0.1		
8/27/2019	<0.1				1.1		<0.1	
8/28/2019		0.36	<0.1	<0.1				
10/15/2019	0.095 (J)				1	<0.1		
10/16/2019		0.41					0.083 (J)	
10/17/2019			<0.1	<0.1				
11/20/2019		0.34		<0.1				
11/21/2019						<0.1	<0.1	
3/27/2020					1.1	<0.1	<0.1	
3/28/2020	<0.1	0.34	<0.1	<0.1				
10/12/2020					1.2			
10/13/2020	<0.1					<0.1	<0.1	
10/14/2020			<0.1	<0.1				
10/15/2020		0.22						0.11
1/4/2021		<0.1						
3/2/2021					1	<0.1		
3/3/2021							0.58 (J)	
3/4/2021	<0.1	0.45	<0.1	<0.1				<0.1
7/1/2021						<0.1		
9/13/2021					1.4	<0.1		
9/14/2021	<0.1	<0.1	<0.1	<0.1			<0.1	<0.1
3/1/2022		<0.1	<0.1					<0.1
3/2/2022				<0.1				
3/3/2022	<0.1				0.95	<0.1	<0.1	
9/20/2022			1.1 (J)					<0.1
9/21/2022	<0.1	0.48		0.18	1.3	0.12	0.78	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
2/28/2023					1.21		0.815	
3/1/2023	<0.1							
3/2/2023		0.388	0.419 (J)	0.44 (J)		0.188 (J)		<0.1
9/12/2023		0.374			1.32	<0.1		
9/13/2023	0.0941 (J)			0.982			1.46	
9/14/2023			0.246 (J)					<0.1
3/19/2024					1.34		0.959 (J)	
3/20/2024	0.0744 (J)					0.294 (J)		
3/21/2024		0.277	0.469 (J)	0.814 (J)				<0.1
9/10/2024	0.0749 (J)				1.67		0.986 (J)	
9/11/2024		0.654		0.692		0.164 (J)		<0.1
9/12/2024			0.392 (J)					
3/17/2025					1.36	0.273 (J)		
3/18/2025							1.45	0.789 (J)
3/19/2025		0.557	0.407 (J)	0.798 (J)				
3/20/2025	0.0536 (J)							
9/9/2025		0.719	0.272 (J)		1.51	<0.1		
9/10/2025	<0.1							0.37 (J)
9/11/2025				0.589			0.995	
Mean	0.1222	0.4212	0.2762	0.3859	1.179	0.2057	0.6941	0.1881
Std. Dev.	0.1057	0.229	0.2343	0.3228	0.3147	0.1682	0.5004	0.215
Upper Lim.	0.12	0.5353	0.3127	0.692	1.339	0.273	0.8666	0.37
Lower Lim.	0.0941	0.307	0.1191	0.1	1.084	0.1	0.3819	0.1

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016				0.0001 (J)	<0.002	
8/31/2016	<0.002	<0.002	<0.002			
10/25/2016						<0.002
11/30/2016	0.0002 (J)	<0.002	<0.002	<0.002	<0.002	<0.002
2/15/2017				<0.002	<0.002	<0.002
2/16/2017	<0.002	<0.002	0.0002 (J)			
5/31/2017				9E-05 (J)	<0.002	<0.002
6/2/2017	<0.002	<0.002	<0.002			
8/15/2017				<0.002		0.0002 (J)
8/16/2017					8E-05 (J)	
8/17/2017	<0.002	<0.002	8E-05 (J)			
6/19/2018				<0.002	<0.002	<0.002
6/20/2018	<0.002	<0.002				
6/21/2018			<0.002			
9/25/2018				<0.002	<0.002	
9/26/2018						<0.002
9/27/2018	<0.002	<0.002	<0.002			
11/6/2018			<0.002		<0.002	<0.002
11/7/2018	<0.002	<0.002		<0.002		
3/6/2019		<0.002				
8/26/2019					<0.002	
8/27/2019				0.00022 (J)		0.00014 (J)
8/28/2019	<0.002	<0.002	0.0001 (J)			
10/15/2019				5.6E-05 (J)	<0.002	
10/16/2019	<0.002					0.00034 (J)
10/17/2019		0.00012 (J)	<0.002			
3/27/2020				<0.002	<0.002	<0.002
3/28/2020	<0.002	<0.002	<0.002			
10/12/2020				<0.002		
10/13/2020					<0.002	<0.002
10/14/2020		<0.002	<0.002			
10/15/2020	<0.002					
1/4/2021	<0.002					
3/2/2021				<0.002	<0.002	
3/3/2021						<0.002
3/4/2021	<0.002	<0.002	<0.002			
9/13/2021				<0.002	<0.002	
9/14/2021	<0.002	<0.002	<0.002			<0.002
3/1/2022	<0.002	<0.002				
3/2/2022			<0.002			
3/3/2022				<0.002	<0.002	<0.002
9/20/2022		<0.002				
9/21/2022	<0.002		<0.002	0.00083 (J)	<0.002	<0.002
2/28/2023				<0.002		<0.002
3/2/2023	<0.002	<0.002	<0.002		<0.002	
9/12/2023	<0.002			<0.002	<0.002	
9/13/2023			<0.002			<0.002
9/14/2023		<0.002				
3/19/2024				<0.002		<0.002
3/20/2024					<0.002	
3/21/2024	<0.002	<0.002	<0.002			
9/10/2024				<0.002		<0.002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
9/11/2024	<0.002		<0.002		<0.002	
9/12/2024		<0.002				
3/17/2025				<0.002	<0.002	
3/18/2025						<0.002
3/19/2025	<0.002	<0.002	<0.002			
9/9/2025	<0.002	<0.002		0.00073 (J)	<0.002	
9/11/2025			<0.002			<0.002
Mean	0.001922	0.001918	0.001745	0.001547	0.001913	0.001758
Std. Dev.	0.0003753	0.000392	0.0006583	0.0007766	0.0004093	0.0006237
Upper Lim.	0.002	0.002	0.002	0.002	0.002	0.002
Lower Lim.	0.0002	0.00012	0.0002	0.00083	8E-05	0.00034

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0102 (J)	0.0112 (J)		
8/31/2016		0.0219 (J)	0.0389 (J)	0.0122 (J)				
10/25/2016							0.007 (J)	
11/30/2016		0.0333 (J)	0.0303 (J)	0.011 (J)	0.0106 (J)	<0.01	0.0086 (J)	
2/15/2017					0.0115 (J)	0.0105 (J)	0.0149 (J)	
2/16/2017		0.0376 (J)	0.05 (J)	0.0142 (J)				
5/31/2017					0.011 (J)	0.0106 (J)	0.019 (J)	
6/1/2017	<0.01							
6/2/2017		0.0346 (J)	0.0477 (J)	0.0229 (J)				
8/2/2017	<0.01							
8/15/2017					0.0123 (J)		0.016 (J)	
8/16/2017						0.0145 (J)		
8/17/2017	<0.01	0.0367 (J)	0.0645	0.0241 (J)				
4/4/2018	0.0013 (J)							
5/8/2018	0.0012 (J)							
6/19/2018					0.012 (J)	0.044 (J)	0.021 (J)	
6/20/2018	0.0015 (J)	0.034 (J)	0.066 (J)					
6/21/2018				0.03 (J)				
9/25/2018					0.011 (J)	0.041 (J)		
9/26/2018							0.02 (J)	
9/27/2018	0.0021 (J)	0.023 (J)	0.045 (J)	0.034 (J)				
11/6/2018	0.0038 (J)			0.037 (J)		0.047 (J)	0.017 (J)	
11/7/2018		0.022 (J)	0.11		0.013 (J)			
3/6/2019			0.12					
8/26/2019						0.059		
8/27/2019	0.002 (J)				0.012 (J)		0.023 (J)	
8/28/2019		0.023 (J)	0.13	0.12				
10/15/2019	0.0019 (J)				0.012 (J)	0.056 (J)		
10/16/2019		0.021 (J)					0.024 (J)	
10/17/2019			0.12	0.096				
11/20/2019				0.12				
11/21/2019						0.052		
3/27/2020					<0.01	0.052	0.033 (J)	
3/28/2020	<0.01	0.014 (J)	0.064	0.027 (J)				0.078
6/16/2020			0.12 (J)	0.049 (J)				0.096 (J)
10/12/2020					0.011 (J)			
10/13/2020	<0.01					0.046 (J)	0.028 (J)	
10/14/2020			0.11	0.039 (J)				
10/15/2020		0.57						0.093
1/4/2021		0.043 (J)						
3/2/2021					<0.01	0.046 (J)		
3/3/2021							<0.01	
3/4/2021	<0.01	0.017 (J)	0.096 (J)	0.035 (J)				0.094 (J)
7/1/2021						<0.01		
9/13/2021					0.01 (J)	0.047		
9/14/2021	<0.01	0.042 (J)	0.084	0.035 (J)			0.035 (J)	0.092
3/1/2022		0.028 (J)	0.074					0.088 (J)
3/2/2022				0.022 (J)				
3/3/2022	0.0017 (J)				<0.01	0.037 (J)	0.02 (J)	
9/20/2022			0.043					<0.01
9/21/2022	<0.01	0.018 (J)		0.02 (J)	0.0075 (J)	0.028	0.023 (J)	
2/28/2023					0.0104 (J)		0.0257 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/1/2023	<0.01							
3/2/2023		0.0237 (J)	0.0361 (J)	0.0217 (J)		0.0218 (J)		0.0919
9/12/2023		0.0301			0.0115	0.0222		
9/13/2023	<0.01			0.027			0.037	
9/14/2023			0.0551					0.087
3/19/2024					0.0104		0.0223	
3/20/2024	<0.01					0.0208		
3/21/2024		0.0329	0.0458	0.0135				0.08
9/10/2024	<0.01				0.00967 (J)		0.0211	
9/11/2024		0.029		0.0147		0.0204		0.0667
9/12/2024			0.055					
3/17/2025					0.00974 (J)	0.0373		
3/18/2025							0.023	0.0665
3/19/2025		0.0476	0.0636	0.0123				
3/20/2025	<0.01							
9/9/2025		0.0533	0.0616		0.0102	0.0348 (J)		
9/10/2025	<0.01							0.066
9/11/2025				0.0161			0.0213 (J)	
Mean	0.007068	0.05373	0.05146	0.03557	0.01005	0.03205	0.02113	0.07724
Std. Dev.	0.003998	0.113	0.01013	0.03138	0.00235	0.01723	0.008105	0.02433
Upper Lim.	0.01	0.0376	0.06349	0.03892	0.01132	0.04084	0.02548	0.09138
Lower Lim.	0.002	0.022	0.03943	0.01944	0.009181	0.02325	0.01678	0.07093

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-14	MCM-17
8/30/2016					<0.0002	
8/31/2016		<0.0002	<0.0002	<0.0002		
10/25/2016						<0.0002
11/30/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/15/2017					<0.0002	<0.0002
2/16/2017		<0.0002	<0.0002	<0.0002		
5/31/2017					<0.0002	<0.0002
6/1/2017	<0.0002					
6/2/2017		4.2E-05 (J)	<0.0002	<0.0002		
8/2/2017	<0.0002					
8/15/2017						<0.0002
8/16/2017					<0.0002	
8/17/2017	<0.0002	<0.0002	<0.0002	<0.0002		
4/4/2018	<0.0002					
5/8/2018	<0.0002					
6/19/2018					<0.0002	<0.0002
6/20/2018	<0.0002	<0.0002	<0.0002			
6/21/2018				<0.0002		
9/25/2018					<0.0002	
9/26/2018						<0.0002
9/27/2018	<0.0002	<0.0002	<0.0002	<0.0002		
11/6/2018	0.00071			0.00067	0.00066	0.00064
11/7/2018		<0.0002	<0.0002			
3/6/2019			<0.0002			
8/26/2019					<0.0002	
8/27/2019	<0.0002					<0.0002
8/28/2019		<0.0002	<0.0002	<0.0002		
10/15/2019	<0.0002				<0.0002	
10/16/2019		<0.0002				<0.0002
10/17/2019			<0.0002	<0.0002		
3/27/2020					<0.0002	<0.0002
3/28/2020	<0.0002	<0.0002	<0.0002	<0.0002		
9/13/2021					<0.0002	
9/14/2021	<0.0002	<0.0002	0.00016 (J)	<0.0002		<0.0002
3/1/2022		<0.0002	<0.0002			
3/2/2022				<0.0002		
3/3/2022	<0.0002				<0.0002	<0.0002
9/20/2022			<0.0002			
9/21/2022	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
2/28/2023						<0.0002
3/1/2023	<0.0002					
3/2/2023		<0.0002	<0.0002	<0.0002	<0.0002	
9/12/2023		<0.0002			<0.0002	
9/13/2023	<0.0002			<0.0002		<0.0002
9/14/2023			<0.0002			
3/19/2024						<0.0002
3/20/2024	<0.0002				<0.0002	
3/21/2024		<0.0002	<0.0002	<0.0002		
9/10/2024	<0.0002					<0.0002
9/11/2024		<0.0002		<0.0002	<0.0002	
9/12/2024			<0.0002			
3/17/2025					<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-14	MCM-17
3/18/2025						<0.0002
3/19/2025		<0.0002	<0.0002	<0.0002		
3/20/2025	<0.0002					
9/9/2025		<0.0002	<0.0002		<0.0002	
9/10/2025	<0.0002					
9/11/2025				<0.0002		<0.0002
Mean	0.0002255	0.0001921	0.0001981	0.0002235	0.000223	0.000222
Std. Dev.	0.000114	3.533E-05	8.729E-06	0.0001051	0.0001029	9.839E-05
Upper Lim.	0.00071	0.0002	0.0002	0.00067	0.00066	0.00064
Lower Lim.	0.0002	4.2E-05	0.00016	0.0002	0.0002	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-17	DPZ-02
8/30/2016					<0.015		
8/31/2016		<0.02	<0.02	<0.02			
10/25/2016						<0.001	
11/30/2016		<0.02	<0.02	<0.02	<0.015	<0.001	
2/15/2017					<0.015	<0.001	
2/16/2017		<0.02	<0.02	<0.02			
5/31/2017					<0.015	<0.001	
6/1/2017	<0.001						
6/2/2017		<0.02	<0.02	<0.02			
8/2/2017	<0.001						
8/15/2017					<0.015	<0.001	
8/17/2017	<0.001	0.0012 (J)	0.0025 (J)	<0.02			
4/4/2018	<0.001						
5/8/2018	<0.001						
6/19/2018					<0.015	<0.001	
6/20/2018	<0.001	<0.02	<0.02				
6/21/2018				<0.02			
9/25/2018					<0.015		
9/26/2018						<0.001	
9/27/2018	<0.001	<0.02	<0.02	<0.02			
11/6/2018	<0.001			<0.02		<0.001	
11/7/2018		<0.02	0.0024 (J)		<0.015		
3/6/2019			<0.02				
8/27/2019	<0.001				<0.015	<0.001	
8/28/2019		<0.02	0.0017 (J)	<0.02			
10/15/2019	<0.001				<0.015		
10/16/2019		<0.02				<0.001	
10/17/2019			0.0017 (J)	<0.02			
3/27/2020					<0.015	<0.001	
3/28/2020	<0.001	<0.02	<0.02	<0.02			
9/13/2021					<0.015		
9/14/2021	<0.001	0.0099 (J)	<0.02	<0.02		<0.001	<0.005
3/1/2022		<0.02	<0.02				<0.005
3/2/2022				<0.02			
3/3/2022	0.00015 (J)				<0.015	<0.001	
9/20/2022			0.0013 (J)				<0.005
9/21/2022	<0.001	0.00095 (J)		0.00095 (J)	<0.015	<0.001	
2/28/2023					0.000362 (J)	0.000313 (J)	
3/1/2023	<0.001						
3/2/2023		0.000852 (J)	0.00131 (J)	0.000963 (J)			0.000245 (J)
9/12/2023		0.000809 (J)			0.000423 (J)		
9/13/2023	<0.001			0.000847 (J)		0.000217 (J)	
9/14/2023			0.000839 (J)				<0.005
3/19/2024					0.00055 (J)	0.00102 (J)	
3/20/2024	<0.001						
3/21/2024		0.000936 (J)	0.000983 (J)	0.00146 (J)			<0.005
9/10/2024	<0.001				0.000276 (J)	<0.001	
9/11/2024		0.00113		0.000949 (J)			0.000217 (J)
9/12/2024			0.000895 (J)				
3/17/2025					0.00044 (J)		
3/18/2025						0.00028 (J)	0.00031 (J)
3/19/2025		0.0018	0.000896 (J)	0.000592 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-17	DPZ-02
3/20/2025	<0.001						
9/9/2025		0.00212	0.000587 (J)		0.000438 (J)		
9/10/2025	0.000218 (J)						0.000393 (J)
9/11/2025				0.000526 (J)		0.000272 (J)	
Mean	0.0009184	0.01198	0.01024	0.01331	0.01062	0.0008551	0.002907
Std. Dev.	0.0002514	0.009287	0.009543	0.009349	0.006858	0.0003003	0.002482
Upper Lim.	0.001	0.02	0.02	0.02	0.015	0.00102	0.005
Lower Lim.	0.000218	0.00113	0.000983	0.00095	0.00044	0.000313	0.000217

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0011 (J)	<0.025		
8/31/2016		0.002 (J)	0.0015 (J)	0.0021 (J)				
10/25/2016							0.003 (J)	
11/30/2016		0.0023 (J)	0.0054 (J)	<0.025	0.0023 (J)	<0.025	0.0087 (J)	
2/15/2017					0.0021 (J)	0.0014 (J)	0.0067 (J)	
2/16/2017		0.002 (J)	0.0022 (J)	0.0025 (J)				
5/31/2017					<0.005	<0.025	0.0018 (J)	
6/1/2017	<0.005							
6/2/2017		<0.025	<0.025	<0.025				
8/2/2017	<0.005							
8/15/2017					0.0021 (J)		0.0025 (J)	
8/16/2017						0.0018 (J)		
8/17/2017	<0.005	<0.025	0.002 (J)	0.0033 (J)				
4/4/2018	<0.005							
5/8/2018	<0.005							
6/19/2018					0.0017 (J)	<0.025	<0.025	
6/20/2018	<0.005	<0.025	<0.025					
6/21/2018				<0.025				
9/25/2018					0.002 (J)	0.0019 (J)		
9/26/2018							0.0016 (J)	
9/27/2018	<0.005	<0.025	<0.025	0.0023 (J)				
11/6/2018	0.0025 (J)			0.0048 (J)		0.0057 (J)	<0.025	
11/7/2018		<0.025	0.0075 (J)		<0.005			
3/6/2019			0.0024 (J)					
8/26/2019						0.0025 (J)		
8/27/2019	<0.005				0.0019 (J)		0.0018 (J)	
8/28/2019		<0.025	0.0014 (J)	0.0019 (J)				
10/15/2019	<0.005				<0.005	0.003 (J)		
10/16/2019		<0.025					<0.025	
10/17/2019			0.0066 (J)	0.0049 (J)				
3/27/2020					<0.005	<0.025	<0.025	
3/28/2020	<0.005	<0.025	<0.025	<0.025				
10/12/2020					<0.005			
10/13/2020	<0.005					<0.025	<0.025	
10/14/2020			<0.025	<0.025				
10/15/2020		0.0028 (J)						<0.025
1/4/2021		<0.025						
3/2/2021					<0.005	<0.025		
3/3/2021							<0.025	
3/4/2021	0.00038 (J)	<0.025	<0.025	<0.025				<0.025
9/13/2021					<0.005	<0.025		
9/14/2021	<0.005	<0.025	<0.025	<0.025			<0.025	<0.025
3/1/2022		<0.025	<0.025					<0.025
3/2/2022				<0.025				
3/3/2022	0.00012 (J)				<0.005	<0.025	<0.025	
9/20/2022			<0.025					<0.025
9/21/2022	<0.005	<0.025		<0.025	<0.005	<0.025	<0.025	
2/28/2023					0.00157 (J)		0.00184 (J)	
3/1/2023	<0.005							
3/2/2023		<0.025	<0.025	0.00238 (J)		<0.025		0.00205 (J)
9/12/2023		<0.025			<0.005	<0.025		
9/13/2023	<0.005			<0.025			<0.025	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/14/2023			<0.025					<0.025
3/19/2024					<0.005		<0.025	
3/20/2024	<0.005					<0.025		
3/21/2024		<0.025	<0.025	<0.025				<0.025
9/10/2024	<0.005				<0.005		<0.025	
9/11/2024		<0.025		<0.025		<0.025		0.00176 (J)
9/12/2024			<0.025					
3/17/2025					<0.005	<0.025		
3/18/2025							<0.025	<0.025
3/19/2025		<0.025	<0.025	0.00157 (J)				
3/20/2025	<0.005							
9/9/2025		<0.025	<0.025		<0.005	<0.025		
9/10/2025	<0.005							<0.025
9/11/2025				<0.025			<0.025	
Mean	0.004455	0.02105	0.01757	0.01594	0.003853	0.01892	0.01718	0.0208
Std. Dev.	0.001462	0.008808	0.0105	0.01117	0.001568	0.01019	0.0107	0.009343
Upper Lim.	0.005	0.025	0.025	0.025	0.005	0.025	0.025	0.025
Lower Lim.	0.0025	0.0028	0.0054	0.0025	0.002	0.0057	0.003	0.00205

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/10/2025 3:44 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-06
8/31/2016	<0.002
11/30/2016	<0.002
2/16/2017	<0.002
6/2/2017	<0.002
8/17/2017	<0.002
6/20/2018	<0.002
9/27/2018	<0.002
11/7/2018	<0.002
3/6/2019	<0.002
8/28/2019	<0.002
10/17/2019	7.6E-05 (J)
3/28/2020	<0.002
9/14/2021	<0.002
3/1/2022	<0.002
9/20/2022	<0.002
3/2/2023	<0.002
9/14/2023	<0.002
3/21/2024	<0.002
9/12/2024	<0.002
3/19/2025	<0.002
9/9/2025	<0.002
Mean	0.001908
Std. Dev.	0.0004199
Upper Lim.	0.002
Lower Lim.	7.6E-05

ND substitution: RL or RL/2 if <15% NDs.

FIGURE J.

Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:48 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	**MCM-11 (bg)**	**0.002042**	**35**	**30**	**Yes**	**12**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	**MCM-18 (bg)**	**-0.0001513**	**-57**	**-53**	**Yes**	**18**	**11.11**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	**MCM-06**	**-0.07493**	**-54**	**-37**	**Yes**	**14**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DPZ-02**	**-0.004421**	**-46**	**-34**	**Yes**	**13**	**7.692**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 11/10/2025, 3:48 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	MCM-01 (bg)	-0.0001926	-10	-30	No	12	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-02 (bg)	0	9	30	No	12	83.33	n/a	0.05	NP
Arsenic (mg/L)	**MCM-11 (bg)**	**0.002042**	**35**	**30**	**Yes**	**12**	**0**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	MCM-15 (bg)	0.0003348	10	30	No	12	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-16 (bg)	0	10	30	No	12	75	n/a	0.05	NP
Arsenic (mg/L)	**MCM-18 (bg)**	**-0.0001513**	**-57**	**-53**	**Yes**	**18**	**11.11**	**n/a**	**0.05**	**NP**
Arsenic (mg/L)	MCM-19 (bg)	0.0005527	26	53	No	18	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-20 (bg)	-0.0004024	-13	-53	No	18	0	n/a	0.05	NP
Arsenic (mg/L)	**MCM-06**	**-0.07493**	**-54**	**-37**	**Yes**	**14**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	MCM-01 (bg)	0	3	30	No	12	91.67	n/a	0.05	NP
Lithium (mg/L)	MCM-02 (bg)	0	0	30	No	12	100	n/a	0.05	NP
Lithium (mg/L)	MCM-11 (bg)	0	-4	-30	No	12	66.67	n/a	0.05	NP
Lithium (mg/L)	MCM-15 (bg)	0	3	30	No	12	91.67	n/a	0.05	NP
Lithium (mg/L)	MCM-16 (bg)	0	3	30	No	12	91.67	n/a	0.05	NP
Lithium (mg/L)	MCM-18 (bg)	0	6	45	No	16	56.25	n/a	0.05	NP
Lithium (mg/L)	MCM-19 (bg)	0	-2	-53	No	18	5.556	n/a	0.05	NP
Lithium (mg/L)	MCM-20 (bg)	0	6	53	No	18	0	n/a	0.05	NP
Lithium (mg/L)	**DPZ-02**	**-0.004421**	**-46**	**-34**	**Yes**	**13**	**7.692**	**n/a**	**0.05**	**NP**

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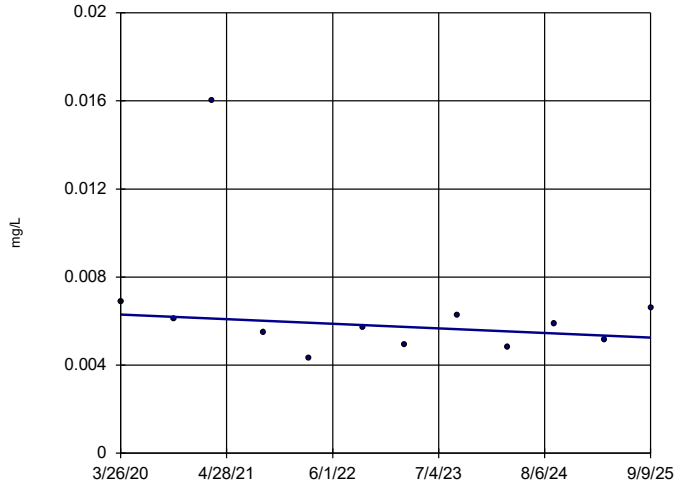
Sen's Slope Estimator

MCM-01 (bg)



n = 12

Slope = -0.0001926 units per year.

Mann-Kendall statistic = -10
critical = -30

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/10/2025 3:47 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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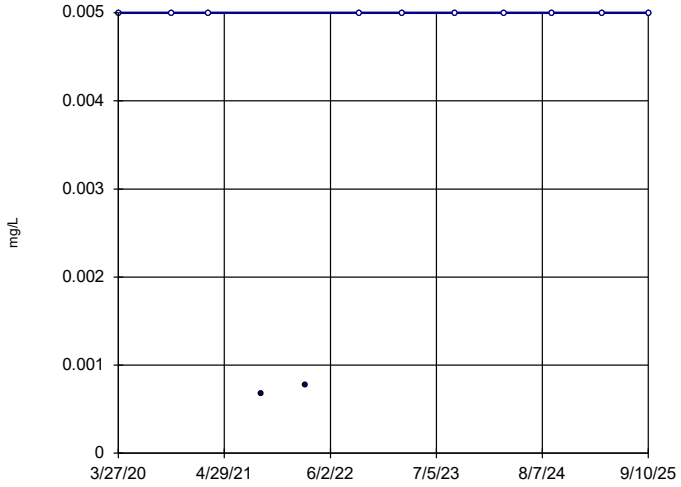
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-02 (bg)



n = 12

Slope = 0 units per year.

Mann-Kendall statistic = 9
critical = 30

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/10/2025 3:47 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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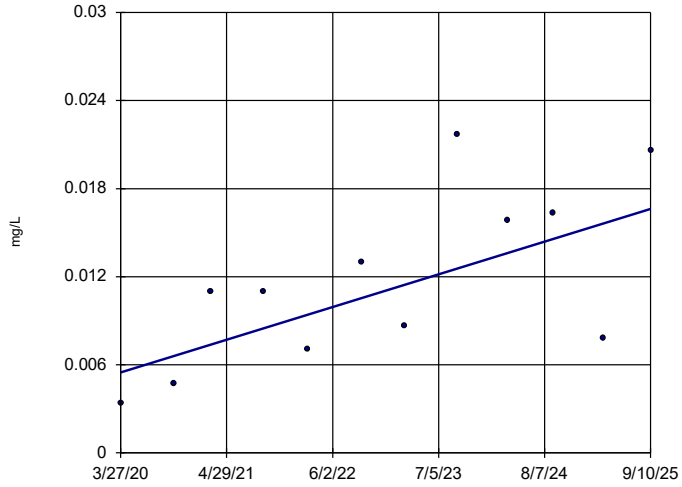
Sen's Slope Estimator

MCM-11 (bg)



n = 12

Slope = 0.002042 units per year.

Mann-Kendall statistic = 35
critical = 30

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/10/2025 3:47 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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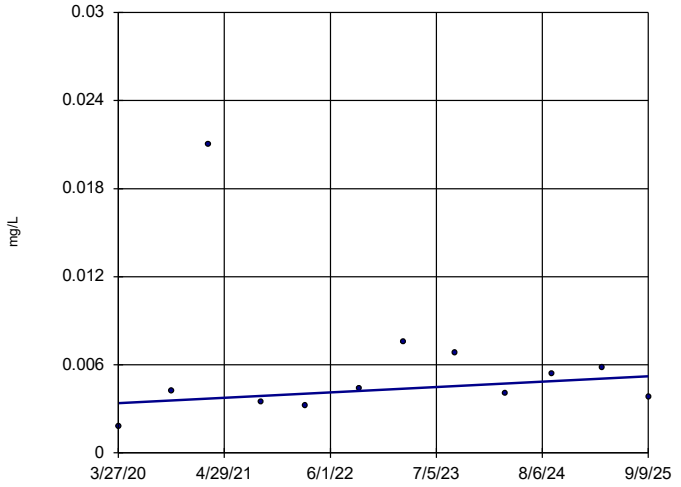
Sen's Slope Estimator

MCM-15 (bg)



n = 12

Slope = 0.0003348 units per year.

Mann-Kendall statistic = 10
critical = 30

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/10/2025 3:47 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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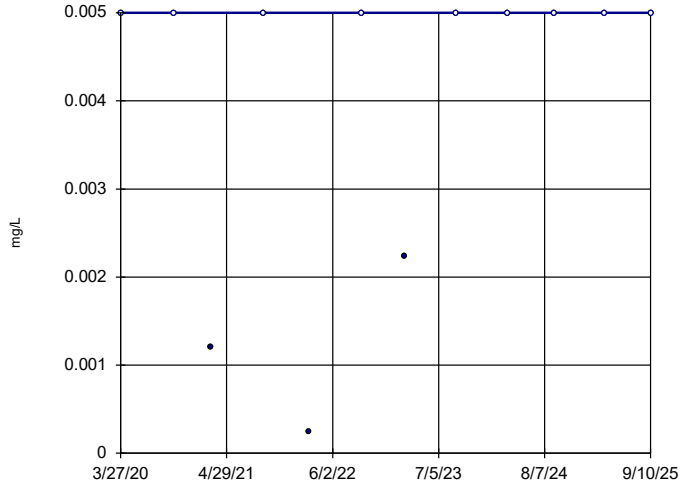
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-16 (bg)



n = 12

Slope = 0 units per year.

Mann-Kendall statistic = 10
critical = 30

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/10/2025 3:47 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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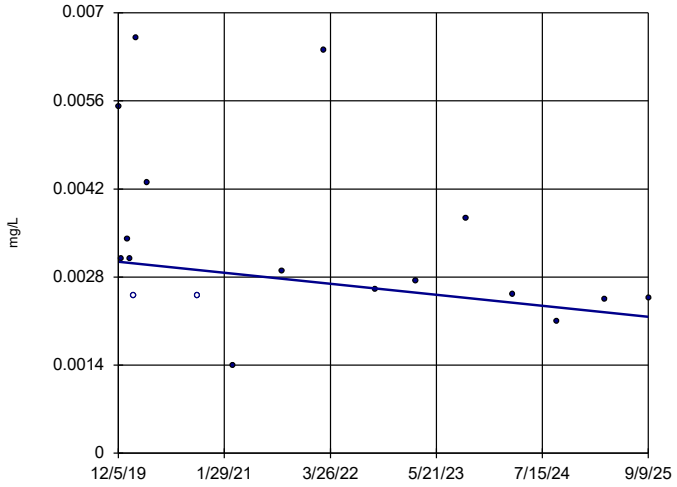
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-18 (bg)



n = 18

Slope = -0.0001513 units per year.

Mann-Kendall statistic = -57
critical = -53

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/10/2025 3:47 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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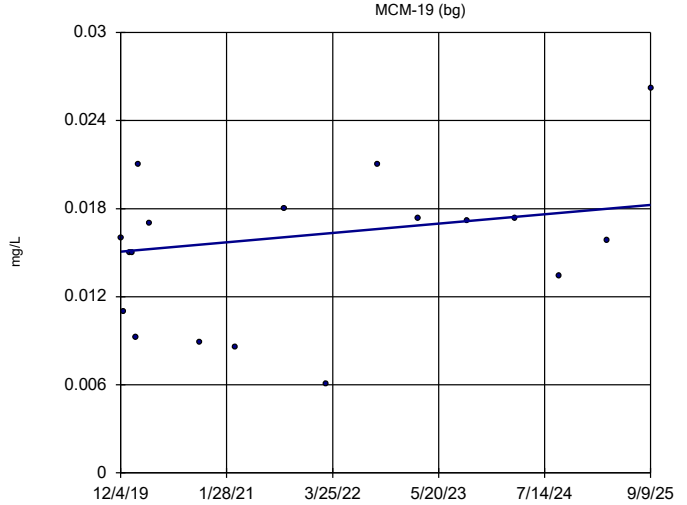
Sen's Slope Estimator

MCM-19 (bg)



n = 18

Slope = 0.0005527 units per year.

Mann-Kendall statistic = 26
critical = 53

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/10/2025 3:47 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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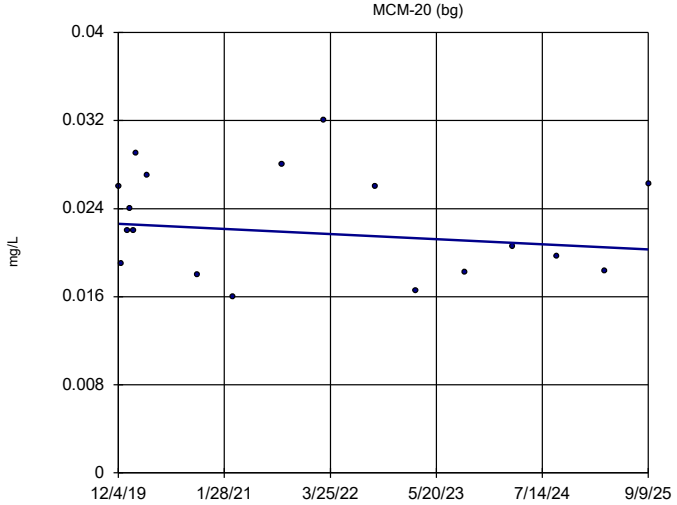
Sen's Slope Estimator

MCM-20 (bg)



n = 18

Slope = -0.0004024 units per year.

Mann-Kendall statistic = -13
critical = -53

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/10/2025 3:47 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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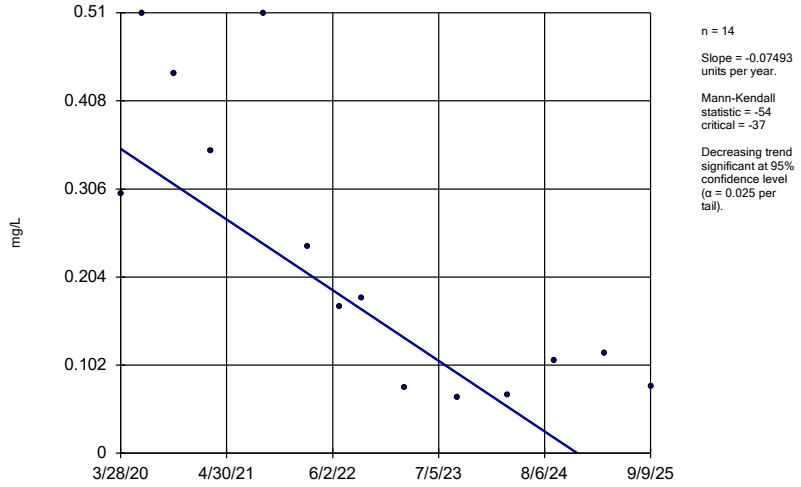
Sen's Slope Estimator

MCM-06



n = 14

Slope = -0.07493 units per year.

Mann-Kendall statistic = -54
critical = -37

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 11/10/2025 3:47 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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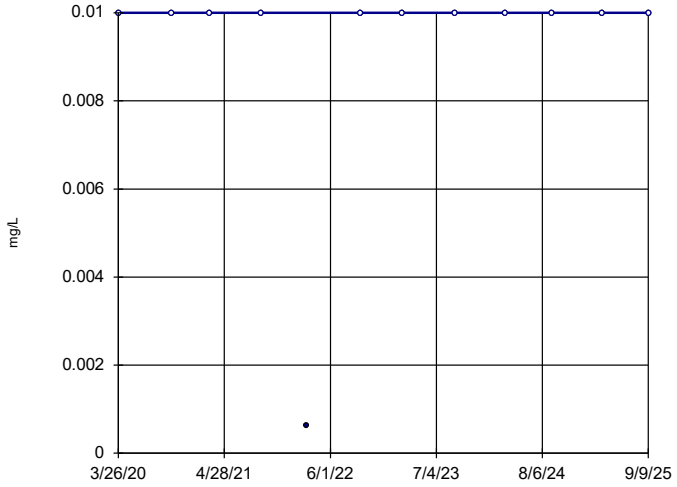
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-01 (bg)



n = 12

Slope = 0 units per year.

Mann-Kendall statistic = 3
critical = 30

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/10/2025 3:47 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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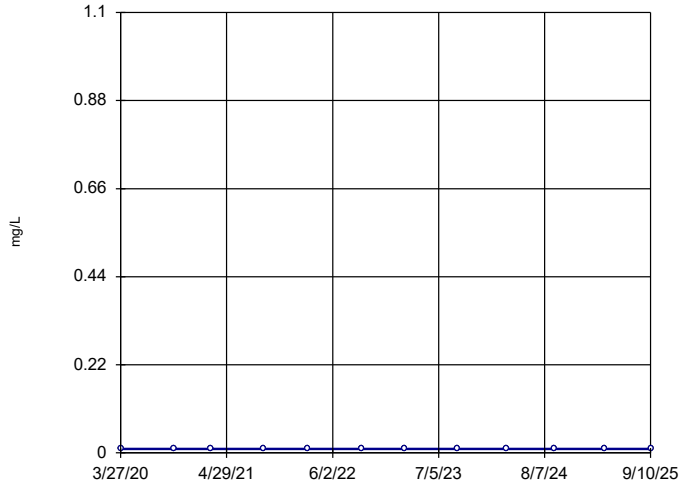
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-02 (bg)



n = 12

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 30

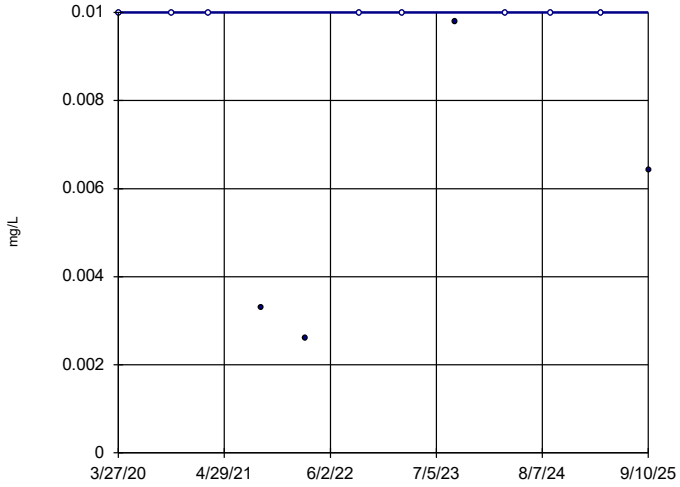
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/10/2025 3:47 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-11 (bg)



n = 12

Slope = 0 units per year.

Mann-Kendall statistic = -4
critical = -30

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/10/2025 3:47 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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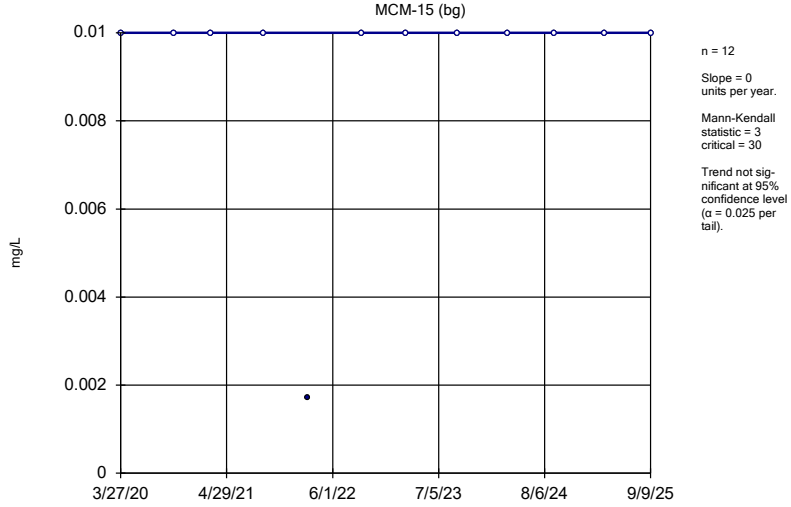
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-15 (bg)



n = 12

Slope = 0 units per year.

Mann-Kendall statistic = 3 critical = 30

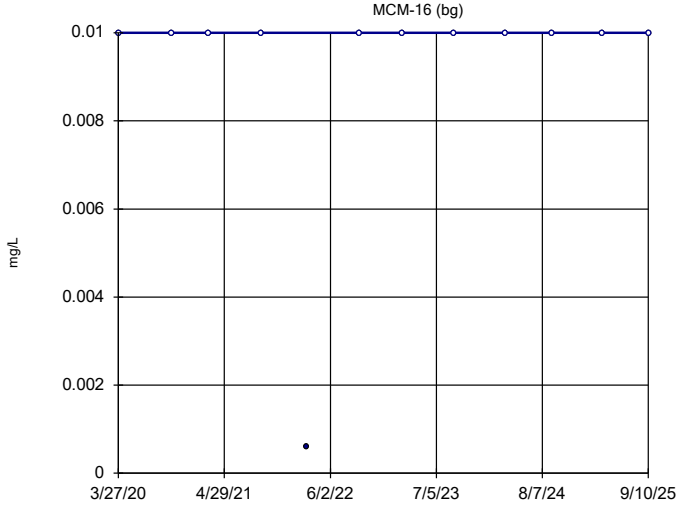
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/10/2025 3:47 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-16 (bg)



n = 12

Slope = 0 units per year.

Mann-Kendall statistic = 3 critical = 30

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/10/2025 3:47 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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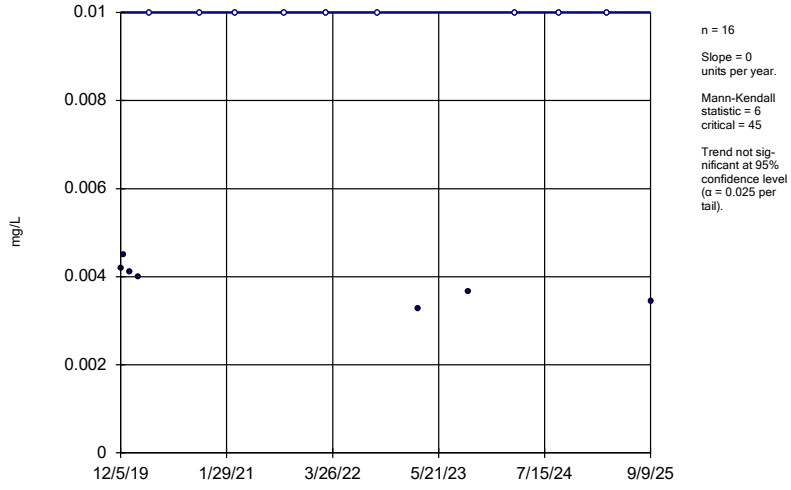
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-18 (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = 6 critical = 45

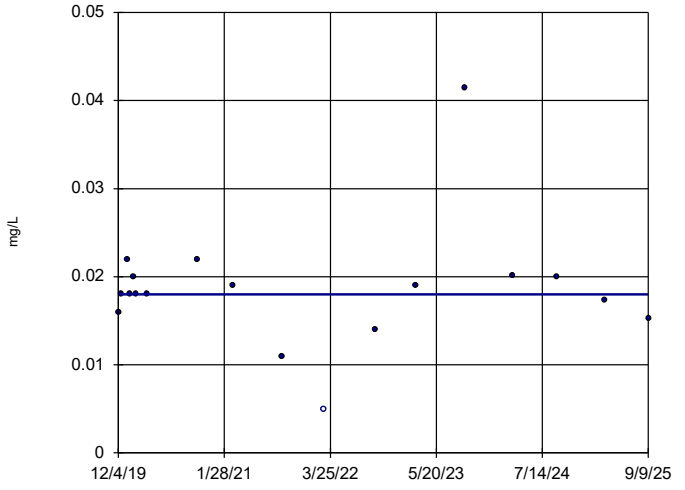
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/10/2025 3:47 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-19 (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = -2 critical = -53

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/10/2025 3:47 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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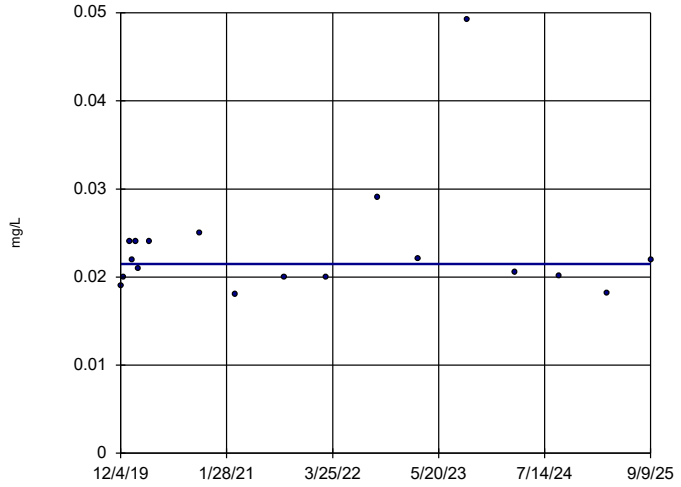
Sen's Slope Estimator

MCM-20 (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 6
critical = 53

Trend not significant at 95% confidence level (α = 0.025 per tail).

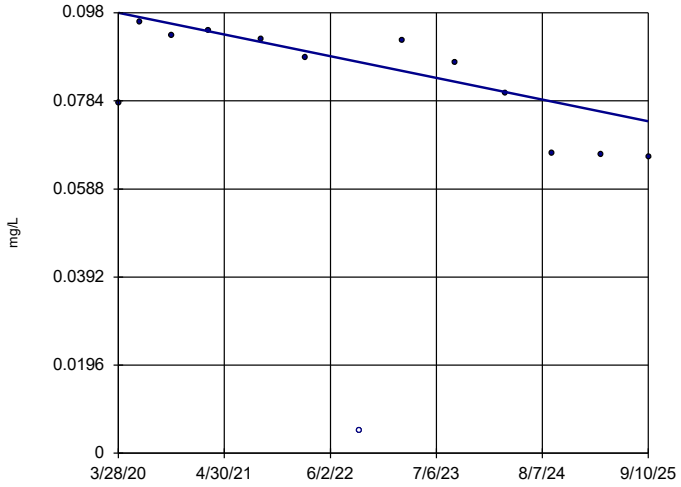
Constituent: Lithium Analysis Run 11/10/2025 3:47 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.02 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

DPZ-02



n = 13

Slope = -0.004421 units per year.

Mann-Kendall statistic = -46
critical = -34

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/10/2025 3:47 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

GROUNDWATER STATS CONSULTING

July 31, 2026

Southern Company Services
Attn: Mr. Christopher Tidwell
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, GA 30308

Re: Plant McManus Ash Pond (AP)
Statistical Analysis – March 2026 Sample Event

Dear Mr. Tidwell,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the March 2026 sample event for Georgia Power Company's Plant McManus Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division Rules (EPD) for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

The groundwater monitoring well network consists of the following:

- **Upgradient Wells:** MCM-01, MCM-02, MCM-11, MCM-15, MCM-16, MCM-18, MCM-19, and MCM-20
- **Downgradient Wells:** MCM-04, MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, and MCM-17
- **Assessment Well:** DPZ-02

Sampling began in 2016 for the majority of wells. Upgradient wells MCM-18, MCM-19, and MCM-20, however, were installed late in 2019. Assessment well DPZ-02 is evaluated with confidence intervals for Appendix IV constituents which require a minimum of four samples. A minimum of 8 samples has been collected at each upgradient and downgradient well and data from these wells are included in this analysis.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of GSC.

The statistical analysis provided in this report was performed according to the background screening conducted by MacStat Consulting in April 2019. Interwell prediction limits, combined with a 1-of-2 resample plan, for Appendix III parameters were recommended as the primary statistical method.

The CCR program monitors the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **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 list of Appendix IV downgradient and assessment well/constituent pairs containing 100% non-detects follow this letter.

For all constituents, a replacement of the most recent reporting limit is used for non-detect data. However, the reporting limits for some constituents during recent events were at or above the MCL or CCR-Rule Specified Levels. In order maintain conservative limits, the most recent reporting limits were substituted for the following constituents:

- Antimony: 0.003 mg/L
- Cadmium: 0.001 mg/L
- Cobalt: 0.001 mg/L
- Fluoride: 0.1 mg/L
- Lithium: 0.01 mg/L
- Thallium: 0.002 mg/L

Some constituents exist in higher concentrations in upgradient wells compared to those reported in one or more downgradient wells which is reflective of spatial variation in groundwater quality. In other cases, concentrations exist higher in downgradient wells relative to observations reported upgradient of the facility, as seen in the majority of the Appendix III parameters. This may be reflective of spatial variation or a result of practices at the facility. A separate study and hydrogeological investigation would be required to fully understand the geochemical conditions and expected groundwater quality for the

region. That study and assessment is beyond the scope of services provided by Groundwater Stats Consulting.

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.

Based on the 2019 screening, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods were recommended. Power curves were provided with the 2019 screening to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia EPD Rules for Solid Waste Management Chapter 391-3-4-.10. 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.

Summary of Statistical Methods:

Based on the evaluation for state and federal regulatory requirements, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals on downgradient well data compared against Groundwater Protection Standards (GWPS) for each detected Appendix IV constituent

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) 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 following approaches are used for handling non-detects (USEPA, 2009):

- 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 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.

For Appendix III detection monitoring parameters, compliance is determined by comparing the most recent observation to a background prediction limit. The corresponding trend tests for evaluating prediction limit exceedances of Appendix III parameters are performed at the 99% confidence level to provide a high level of confidence against false positives. For Appendix IV assessment monitoring parameters, however, compliance is assessed by comparing a full (or truncated) period of record to a GWPS using a confidence interval. The corresponding trend tests for evaluating confidence interval exceedances of Appendix IV constituents are performed at the 95% confidence level to provide greater capability of identifying potential trends than the 99% confidence level. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells.

Summary of Background Update Conducted in Spring 2025

Outlier Analysis

Time series plots were used to identify suspected outliers, or values that would result in limits that are not representative of the current background data population. Suspected outliers at upgradient wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits. When the most recent value is identified as an outlier, values are often not flagged in the database at this time as the measurements may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected.

Previously flagged values were confirmed using the Tukey's box plot method to evaluate pooled upgradient well data and visual screening with time series plots to assess both upgradient and downgradient wells. Any values identified by Tukey's but not flagged in the database appeared similar to surrounding concentrations among pooled upgradient well data, resulted in statistical limits representative of near-term and potentially future background, or in some cases for Appendix IV parameters, were below their respective regulatory standard (such as a Maximum Contaminant Level (MCL)). When any values are flagged in the database as outliers, the measurements are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends can be identified by visual inspection, a quantification of the trend and its statistical significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each upgradient well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in

background. When statistically significant trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits. The following statistically significant trends were identified at upgradient wells:

Appendix III

Increasing:

- None

Decreasing:

- Boron: MCM-16 and MCM-18
- Calcium: MCM-18 and MCM-20
- Chloride: MCM-02, MCM-16, MCM-18, and MCM-20
- pH: MCM-15 and MCM-20
- Sulfate: MCM-02 and MCM-18
- TDS: MCM-01, MCM-02, MCM-16, MCM-18, and MCM-20

Appendix IV

Increasing:

- Beryllium: MCM-11 and MCM-16
- Chromium: MCM-15
- Combined Radium 226 + 228: MCM-16
- Lead: MCM-20
- Selenium: MCM-19

Decreasing:

- Arsenic: MCM-18
- Barium: MCM-02, MCM-19, and MCM-20
- Beryllium: MCM-18
- Combined Radium 226 +228: MCM-18 and MCM-20
- Selenium: MCM-18 and MCM-20

Although several statistically significant trends were identified among individual wells, observations early in the record fell within the range of more recent concentrations among the respective wells or within the range of observations among pooled upgradient well data, and truncating the earlier measurements from these records to reduce the influence of the trend would not impact resulting interwell prediction limits and interwell tolerance limits. In some cases for Appendix IV parameters, the significant trends did not

adversely affect GWPS as concentrations were below established MCLs. If the observed decreasing or increasing trends persist over a longer time frame and influence resulting statistical limits, some records may require truncation.

Exceptions include the trends for combined radium 226 + 228 at upgradient well MCM-20 and selenium at upgradient wells MCM-18, MCM-19, and MCM-20, as these well/constituent pairs had portions of their baseline sampling periods truncated during a previous update. Trend tests using both the full and truncated records were included with the update, and a list of well/constituent pairs that use a truncated portion of their record follows this letter.

Statistical Analysis of Appendix III Parameters – March 2026

All Appendix III parameters were analyzed using interwell prediction limits. No additional outliers were flagged at this time. 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).

Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through March 2026 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The March 2026 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: MCM-12 and MCM-17
- Calcium: MCM-05, MCM-06, and MCM-14

- pH (upper limit): MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, and MCM-17

Trend Tests

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). Upgradient well data are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Trends identified in upgradient wells are an indication of variability in groundwater quality unrelated to practices at the site. A summary of trend test results follows this letter including a list of statistically significant trends. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:
- pH: MCM-02 and MCM-18 (both upgradient)

Decreasing:
- Boron: MCM-02, MCM-16, and MCM-18 (all upgradient)
- Calcium: MCM-18 and MCM-20 (both upgradient)
- pH: MCM-20 (upgradient), MCM-14, and MCM-17

Statistical Analysis of Appendix IV Parameters – March 2026

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding GWPS. GWPS were developed as described below. Any downgradient and assessment well/constituent pairs containing 100% non-detects do not require analysis.

Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No additional individual observations were flagged as outliers during this analysis. As a result of the previous background screening, the following non-detect values were flagged at that time due to elevated reporting limits: 0.025 mg/L for lead in upgradient well MCM-19; and 0.1 mg/L, 0.15 mg/L and 0.3 mg/L for lithium in upgradient well MCM-18. Additionally, elevated concentrations for fluoride in downgradient well MCM-06 and upgradient well MCM-20, and for cadmium in upgradient well MCM-19 were flagged as outliers. This step results in construction of statistical limits that are conservative from a regulatory perspective.

During previous analyses, elevated historic concentrations collected during the baseline sampling period for combined radium 226 + 228 in upgradient well MCM-20 and for

selenium at upgradient wells MCM-18, MCM-19, and MCM-20 were truncated from the record in order to maintain more conservative (i.e., lower) limits and construct statistical limits that are more representative of current groundwater quality conditions. A summary of all flagged outliers (Figure C) and a list of any truncated records follow this report.

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through March 2026 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. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

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 and

assessment well. These intervals were constructed as either parametric or nonparametric confidence intervals 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 appropriate 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 achievable confidence level associated with nonparametric confidence intervals is dependent upon the number of samples available.

Note the concentrations for arsenic and lithium in downgradient well MCM-06 have statistically significantly decreased since November 2019 and recent concentrations appear to have stabilized. Therefore, confidence intervals for arsenic and lithium at well MCM-06 were constructed using only the most recent and stable data (USEPA Unified Guidance, 2009, Chapter 7). A Mann-Whitney test comparing the median of historic data to the median of more recent data is included to illustrate the statistically significant decrease in medians at the 99% confidence level. Additionally, trend tests using 95% confidence follow this report to demonstrate that the more recent portions of the records used in the confidence interval comparison are relatively stable (Figure H). A list of well/constituent pairs that use a truncated portion of their record follows this letter.

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. Summaries of the confidence intervals follow this letter (Figure I), and exceedances were identified for the following well/constituent pairs:

- Arsenic: MCM-06
- Lithium: DPZ-02

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). 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.

Note that closure measures have been implemented; therefore, the trend tests were used to evaluate all available data beyond November 21, 2019 to the present. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- None

Decreasing:

- Arsenic: MCM-06
- Lithium: DPZ-02

Summary

Observations from the March 2026 sample event at McManus AP-1 were compared to established interwell prediction limits for all Appendix III constituents. Exceedances were identified for the following well/constituent pairs:

- Boron: MCM-12 and MCM-17
- Calcium: MCM-05, MCM-06, and MCM-14
- pH (upper limit): MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, and MCM-17

When confidence intervals were constructed on downgradient wells for Appendix IV constituents and compared to respective GWPS, exceedances were identified for the following well/constituent pairs:

- Arsenic: MCM-06
- Lithium: DPZ-02

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for the Plant McManus Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Abdul Diane
Groundwater Analyst

Andrew T. Collins
Project Manager

Table of Contents

Summary Tables	13
Figure A. Time Series	29
Figure B. Box Plots	125
Figure C. Outlier Summary	137
Figure D. Appendix III Interwell Prediction Limits	139
Figure E. Appendix III Trend Tests - Prediction Limit Exceedances	172
Figure F. Upper Tolerance Limits	184
Figure G. Groundwater Protection Standards	194
Figure H. Arsenic & Lithium MCM-06 Mann Whitney & Trend Tests	196
Figure I. Confidence Intervals	201
Figure J. Appendix IV Trend Tests - Confidence Interval Exceedances	236

Summary Tables

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Date Ranges

Date: 4/16/2026 3:31 PM

Plant McManus Client: Southern Company Data: McManus AP1

Arsenic (mg/L)
- MCM-06 overall:3/2/2023-3/10/2026

Combined Radium 226 + 228 (pCi/L)
- MCM-20 overall:10/13/2020-3/12/2026

Lithium (mg/L)
- MCM-06 overall:9/20/2022-3/10/2026

Selenium (mg/L)
- MCM-18 overall:3/26/2020-3/10/2026
- MCM-19 overall:3/26/2020-3/11/2026
- MCM-20 overall:3/26/2020-3/12/2026

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100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 4/16/2026 5:58 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

Antimony (mg/L)
MCM-04, MCM-07, MCM-12, MCM-17, DPZ-02

Beryllium (mg/L)
MCM-06, DPZ-02

Cadmium (mg/L)
MCM-05, MCM-06, MCM-12, MCM-14, MCM-17, DPZ-02

Chromium (mg/L)
DPZ-02

Cobalt (mg/L)
DPZ-02

Lead (mg/L)
MCM-04, DPZ-02

Mercury (mg/L)
MCM-12, DPZ-02

Molybdenum (mg/L)
MCM-14

Thallium (mg/L)
MCM-04, MCM-05, MCM-07, MCM-12, MCM-14, MCM-17, DPZ-02

Appendix III Interwell Prediction Limits - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 4/16/2026, 3:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**MCM-12**	**1.3**	**n/a**	**3/11/2026**	**1.31**	**Yes**	**178**	**n/a**	**n/a**	**5.618**	**n/a**	**n/a**	**0.00006218**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**MCM-17**	**1.3**	**n/a**	**3/10/2026**	**1.72**	**Yes**	**178**	**n/a**	**n/a**	**5.618**	**n/a**	**n/a**	**0.00006218**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**MCM-05**	**202**	**n/a**	**3/10/2026**	**240**	**Yes**	**179**	**n/a**	**n/a**	**0.5587**	**n/a**	**n/a**	**0.00006139**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**MCM-06**	**202**	**n/a**	**3/10/2026**	**245**	**Yes**	**179**	**n/a**	**n/a**	**0.5587**	**n/a**	**n/a**	**0.00006139**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**MCM-14**	**202**	**n/a**	**3/10/2026**	**206**	**Yes**	**179**	**n/a**	**n/a**	**0.5587**	**n/a**	**n/a**	**0.00006139**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-05**	**5.81**	**3.51**	**3/10/2026**	**6.72**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-06**	**5.81**	**3.51**	**3/10/2026**	**6.5**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-07**	**5.81**	**3.51**	**3/11/2026**	**6.55**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-12**	**5.81**	**3.51**	**3/11/2026**	**6.29**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-14**	**5.81**	**3.51**	**3/10/2026**	**6.26**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-17**	**5.81**	**3.51**	**3/10/2026**	**6.06**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 4/16/2026, 3:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	MCM-04	1.3	n/a	3/10/2026	0.0411	No	178	n/a	n/a	5.618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-05	1.3	n/a	3/10/2026	1.06	No	178	n/a	n/a	5.618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-06	1.3	n/a	3/10/2026	1.15	No	178	n/a	n/a	5.618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-07	1.3	n/a	3/11/2026	0.88	No	178	n/a	n/a	5.618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Boron (mg/L)	**MCM-12**	**1.3**	**n/a**	**3/11/2026**	**1.31**	**Yes**	**178**	**n/a**	**n/a**	**5.618**	**n/a**	**n/a**	**0.00006218**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	MCM-14	1.3	n/a	3/10/2026	0.81	No	178	n/a	n/a	5.618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Boron (mg/L)	**MCM-17**	**1.3**	**n/a**	**3/10/2026**	**1.72**	**Yes**	**178**	**n/a**	**n/a**	**5.618**	**n/a**	**n/a**	**0.00006218**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	MCM-04	202	n/a	3/10/2026	4.03	No	179	n/a	n/a	0.5587	n/a	n/a	0.00006139	NP Inter (normality) 1 of 2
Calcium (mg/L)	**MCM-05**	**202**	**n/a**	**3/10/2026**	**240**	**Yes**	**179**	**n/a**	**n/a**	**0.5587**	**n/a**	**n/a**	**0.00006139**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**MCM-06**	**202**	**n/a**	**3/10/2026**	**245**	**Yes**	**179**	**n/a**	**n/a**	**0.5587**	**n/a**	**n/a**	**0.00006139**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	MCM-07	202	n/a	3/11/2026	168	No	179	n/a	n/a	0.5587	n/a	n/a	0.00006139	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-12	202	n/a	3/11/2026	4.55	No	179	n/a	n/a	0.5587	n/a	n/a	0.00006139	NP Inter (normality) 1 of 2
Calcium (mg/L)	**MCM-14**	**202**	**n/a**	**3/10/2026**	**206**	**Yes**	**179**	**n/a**	**n/a**	**0.5587**	**n/a**	**n/a**	**0.00006139**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	MCM-17	202	n/a	3/10/2026	46.2	No	179	n/a	n/a	0.5587	n/a	n/a	0.00006139	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-04	8600	n/a	3/10/2026	10	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-05	8600	n/a	3/10/2026	6240	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-06	8600	n/a	3/10/2026	6820	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-07	8600	n/a	3/11/2026	3760	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-12	8600	n/a	3/11/2026	285	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-14	8600	n/a	3/10/2026	5360	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-17	8600	n/a	3/10/2026	2450	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-04	3.98	n/a	3/10/2026	0.0536J	No	182	n/a	n/a	45.05	n/a	n/a	0.00005945	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-05	3.98	n/a	3/10/2026	0.486J	No	182	n/a	n/a	45.05	n/a	n/a	0.00005945	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-06	3.98	n/a	3/10/2026	0.28J	No	182	n/a	n/a	45.05	n/a	n/a	0.00005945	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-07	3.98	n/a	3/11/2026	0.603	No	182	n/a	n/a	45.05	n/a	n/a	0.00005945	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-12	3.98	n/a	3/11/2026	1.58	No	182	n/a	n/a	45.05	n/a	n/a	0.00005945	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-14	3.98	n/a	3/10/2026	0.224J	No	182	n/a	n/a	45.05	n/a	n/a	0.00005945	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-17	3.98	n/a	3/10/2026	0.858	No	182	n/a	n/a	45.05	n/a	n/a	0.00005945	NP Inter (normality) 1 of 2
pH, Field (SU)	MCM-04	5.81	3.51	3/10/2026	5.07	No	186	n/a	n/a	0	n/a	n/a	0.0001143	NP Inter (normality) 1 of 2
pH, Field (SU)	**MCM-05**	**5.81**	**3.51**	**3/10/2026**	**6.72**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-06**	**5.81**	**3.51**	**3/10/2026**	**6.5**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-07**	**5.81**	**3.51**	**3/11/2026**	**6.55**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-12**	**5.81**	**3.51**	**3/11/2026**	**6.29**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-14**	**5.81**	**3.51**	**3/10/2026**	**6.26**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-17**	**5.81**	**3.51**	**3/10/2026**	**6.06**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	MCM-04	1300	n/a	3/10/2026	17.6	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-05	1300	n/a	3/10/2026	644	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-06	1300	n/a	3/10/2026	868	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-07	1300	n/a	3/11/2026	566	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-12	1300	n/a	3/11/2026	1.28	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-14	1300	n/a	3/10/2026	733	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-17	1300	n/a	3/10/2026	226	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-04	15500	n/a	3/10/2026	54	No	178	n/a	n/a	0.5618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-05	15500	n/a	3/10/2026	9900	No	178	n/a	n/a	0.5618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-06	15500	n/a	3/10/2026	12500	No	178	n/a	n/a	0.5618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-07	15500	n/a	3/11/2026	8120	No	178	n/a	n/a	0.5618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-12	15500	n/a	3/11/2026	1150	No	178	n/a	n/a	0.5618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-14	15500	n/a	3/10/2026	10700	No	178	n/a	n/a	0.5618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-17	15500	n/a	3/10/2026	4830	No	178	n/a	n/a	0.5618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 4/16/2026, 4:18 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**MCM-02 (bg)**	**-0.006468**	**-102**	**-98**	**Yes**	**23**	**8.696**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MCM-16 (bg)**	**-0.004331**	**-134**	**-98**	**Yes**	**23**	**8.696**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MCM-18 (bg)**	**-0.01023**	**-109**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**MCM-18 (bg)**	**-4.614**	**-150**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**MCM-20 (bg)**	**-11.47**	**-148**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-02 (bg)**	**0.02177**	**118**	**111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-18 (bg)**	**0.04743**	**97**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-20 (bg)**	**-0.03078**	**-125**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-14**	**-0.05803**	**-194**	**-118**	**Yes**	**26**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-17**	**-0.0634**	**-136**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 4/16/2026, 4:18 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	MCM-01 (bg)	0.002645	56	98	No	23	8.696	n/a	n/a	0.01	NP
Boron (mg/L)	**MCM-02 (bg)**	**-0.006468**	**-102**	**-98**	**Yes**	**23**	**8.696**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	MCM-11 (bg)	0.001236	44	98	No	23	8.696	n/a	n/a	0.01	NP
Boron (mg/L)	MCM-15 (bg)	0.0001738	4	98	No	23	8.696	n/a	n/a	0.01	NP
Boron (mg/L)	**MCM-16 (bg)**	**-0.004331**	**-134**	**-98**	**Yes**	**23**	**8.696**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MCM-18 (bg)**	**-0.01023**	**-109**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	MCM-19 (bg)	-0.01284	-33	-87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	MCM-20 (bg)	-0.01665	-68	-87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	MCM-12	0.00964	52	98	No	23	0	n/a	n/a	0.01	NP
Boron (mg/L)	MCM-17	-0.00881	-30	-105	No	24	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MCM-01 (bg)	-0.3938	-92	-105	No	24	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MCM-02 (bg)	0.08407	42	98	No	23	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MCM-11 (bg)	0	0	98	No	23	4.348	n/a	n/a	0.01	NP
Calcium (mg/L)	MCM-15 (bg)	-0.1766	-39	-98	No	23	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MCM-16 (bg)	-0.0484	-42	-98	No	23	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**MCM-18 (bg)**	**-4.614**	**-150**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	MCM-19 (bg)	-3.399	-48	-87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**MCM-20 (bg)**	**-11.47**	**-148**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	MCM-05	1.646	34	111	No	25	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MCM-06	-1.398	-3	-124	No	27	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MCM-14	-4.447	-27	-124	No	27	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-01 (bg)	-0.06127	-108	-111	No	25	0	n/a	n/a	0.01	NP
pH, Field (SU)	**MCM-02 (bg)**	**0.02177**	**118**	**111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-11 (bg)	-0.04402	-96	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-15 (bg)	-0.03016	-88	-111	No	25	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-16 (bg)	0.008741	15	105	No	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	**MCM-18 (bg)**	**0.04743**	**97**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-19 (bg)	-0.02201	-50	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	**MCM-20 (bg)**	**-0.03078**	**-125**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-05	0	-5	-118	No	26	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-06	-0.01613	-26	-118	No	26	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-07	-0.01087	-36	-118	No	26	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-12	-0.005458	-30	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	**MCM-14**	**-0.05803**	**-194**	**-118**	**Yes**	**26**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-17**	**-0.0634**	**-136**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits

Plant McManus Client: Southern Company Data: McManus AP1 Printed 4/20/2026, 12:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	163	99.39	n/a	0.0002339	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.032	n/a	n/a	n/a	n/a	181	19.34	n/a	NaN	NP Inter(normality)
Barium (mg/L)	n/a	0.22	n/a	n/a	n/a	n/a	179	0	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.021	n/a	n/a	n/a	n/a	178	32.58	n/a	NaN	NP Inter(normality)
Cadmium (mg/L)	n/a	0.0043	n/a	n/a	n/a	n/a	161	97.52	n/a	0.0002591	NP Inter(NDs)
Chromium (mg/L)	n/a	0.05	n/a	n/a	n/a	n/a	163	63.19	n/a	0.0002339	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.036	n/a	n/a	n/a	n/a	178	78.09	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	34.9	n/a	n/a	n/a	n/a	169	0	n/a	0.0001719	NP Inter(normality)
Fluoride (mg/L)	n/a	3.98	n/a	n/a	n/a	n/a	182	45.05	n/a	NaN	NP Inter(normality)
Lead (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	178	89.89	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.0493	n/a	n/a	n/a	n/a	175	60.57	n/a	NaN	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0007	n/a	n/a	n/a	n/a	162	97.53	n/a	0.0002462	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	162	88.89	n/a	0.0002462	NP Inter(NDs)
Selenium (mg/L)	n/a	0.0727	n/a	n/a	n/a	n/a	155	72.26	n/a	0.0003525	NP Inter(NDs)
Thallium (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a	162	97.53	n/a	0.0002462	NP Inter(NDs)

MCMANUS ASH POND GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.032	0.032
Barium, Total (mg/L)	2		0.22	2
Beryllium, Total (mg/L)	0.004		0.021	0.021
Cadmium, Total (mg/L)	0.005		0.0043	0.005
Chromium, Total (mg/L)	0.1		0.05	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.036	0.036
Combined Radium, Total (pCi/L)	5		34.9	34.9
Fluoride, Total (mg/L)	4		3.98	4
Lead, Total (mg/L)	n/a	0.015	0.01	0.015
Lithium, Total (mg/L)	n/a	0.04	0.049	0.049
Mercury, Total (mg/L)	0.002		0.0007	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.005	0.1
Selenium, Total (mg/L)	0.05		0.073	0.073
Thallium, Total (mg/L)	0.002		0.002	0.002

**Gray cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

Mann-Whitney Test - Arsenic & Lithium MCM-06 - All/Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 4/23/2026, 11:59 AM

Constituent	Well	Calc.	0.01	Alpha	Sig.	Method
Arsenic (mg/L)	**MCM-06**	**-3.301**	**Yes**	**0.01**	**Yes**	**Mann-W**
Lithium (mg/L)	**MCM-06**	**-3.163**	**Yes**	**0.01**	**Yes**	**Mann-W**

Arsenic & Lithium MCM-06 Trend Tests - Truncated Record - All Results (No Significant)

Plant McManus Client: Southern Company Data: McManus AP1 Printed 4/23/2026, 12:04 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	MCM-06	0.006753	9	15	No	7	0	n/a	0.05	NP
Lithium (mg/L)	MCM-06	0.006158	16	17	No	8	0	n/a	0.05	NP

Appendix IV Confidence Intervals - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 7/14/2026, 3:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**MCM-06**	**0.1077**	**0.06145**	**0.032**	**Yes**	**7**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DPZ-02**	**0.09061**	**0.06764**	**0.049**	**Yes**	**14**	**7.143**	**None**	**x^2**	**0.01**	**Param.**

Appendix IV Confidence Intervals - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 7/14/2026, 3:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MCM-05	0.003	0.00159	0.015	No	21	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	MCM-06	0.003	0.0029	0.015	No	22	86.36	None	No	0.01	NP (NDs)
Antimony (mg/L)	MCM-14	0.003	0.0004	0.015	No	21	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-04	0.005307	0.002824	0.032	No	23	13.04	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	MCM-05	0.01559	0.006091	0.032	No	39	7.692	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	**MCM-06**	**0.1077**	**0.06145**	**0.032**	**Yes**	**7**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	MCM-07	0.01592	0.01052	0.032	No	38	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MCM-12	0.005	0.00234	0.032	No	23	69.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-14	0.025	0.0022	0.032	No	24	58.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-17	0.005	0.0024	0.032	No	24	54.17	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DPZ-02	0.03024	0.01279	0.032	No	14	7.143	None	sqrt(x)	0.01	Param.
Barium (mg/L)	MCM-04	0.062	0.031	2	No	23	0	None	No	0.01	NP (normality)
Barium (mg/L)	MCM-05	0.0423	0.01478	2	No	24	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MCM-06	0.1445	0.0648	2	No	24	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	MCM-07	0.1573	0.08501	2	No	23	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	MCM-12	0.1122	0.0827	2	No	23	0	None	No	0.01	Param.
Barium (mg/L)	MCM-14	0.1131	0.05884	2	No	23	0	None	No	0.01	Param.
Barium (mg/L)	MCM-17	0.1142	0.06806	2	No	23	0	None	No	0.01	Param.
Barium (mg/L)	DPZ-02	0.07518	0.04873	2	No	12	0	None	No	0.01	Param.
Beryllium (mg/L)	MCM-04	0.0003568	0.0002123	0.021	No	23	43.48	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	MCM-05	0.0005	0.000054	0.021	No	24	95.83	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-07	0.0005	0.00012	0.021	No	23	86.96	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-12	0.001397	0.0007738	0.021	No	23	8.696	None	No	0.01	Param.
Beryllium (mg/L)	MCM-14	0.0005	0.0002	0.021	No	23	78.26	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-17	0.0005	0.00024	0.021	No	23	43.48	None	No	0.01	NP (normality)
Cadmium (mg/L)	MCM-04	0.001	0.00043	0.005	No	21	95.24	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MCM-07	0.001	0.0002	0.005	No	21	95.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-04	0.01	0.0013	0.1	No	21	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-05	0.01	0.0012	0.1	No	21	66.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-06	0.01	0.0015	0.1	No	22	77.27	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-07	0.01	0.0023	0.1	No	21	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-12	0.0077	0.0054	0.1	No	21	23.81	None	No	0.01	NP (normality)
Chromium (mg/L)	MCM-14	0.01	0.0018	0.1	No	21	61.9	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-17	0.01022	0.00613	0.1	No	21	19.05	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MCM-04	0.004364	0.002024	0.036	No	24	29.17	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MCM-05	0.0019	0.00026	0.036	No	24	91.67	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-06	0.001	0.0009	0.036	No	24	91.67	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-07	0.0011	0.00031	0.036	No	23	91.3	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-12	0.001	0.000456	0.036	No	23	43.48	None	No	0.01	NP (normality)
Cobalt (mg/L)	MCM-14	0.001	0.0006	0.036	No	23	95.65	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-17	0.001	0.0007	0.036	No	23	86.96	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	MCM-04	4.787	2.911	34.9	No	23	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-05	3.719	1.861	34.9	No	24	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-06	7.361	3.741	34.9	No	23	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-07	8.436	5.632	34.9	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-12	3.168	2.339	34.9	No	23	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-14	6.984	4.081	34.9	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-17	6.643	4.035	34.9	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DPZ-02	8.976	5.579	34.9	No	12	0	None	No	0.01	Param.
Fluoride (mg/L)	MCM-04	0.12	0.0749	4	No	24	50	None	No	0.01	NP (normality)
Fluoride (mg/L)	MCM-05	0.5332	0.3141	4	No	26	11.54	None	No	0.01	Param.
Fluoride (mg/L)	MCM-06	0.3112	0.1241	4	No	24	33.33	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MCM-07	0.603	0.1	4	No	25	32	None	No	0.01	NP (normality)
Fluoride (mg/L)	MCM-12	1.356	1.101	4	No	24	4.167	None	x^2	0.01	Param.
Fluoride (mg/L)	MCM-14	0.273	0.1	4	No	26	50	None	No	0.01	NP (normality)
Fluoride (mg/L)	MCM-17	0.8678	0.4022	4	No	25	24	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	DPZ-02	0.789	0.1	4	No	12	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	MCM-05	0.01	0.0002	0.015	No	24	95.83	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-06	0.01	0.00012	0.015	No	24	95.83	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-07	0.01	0.0002	0.015	No	23	86.96	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-12	0.002	0.00083	0.015	No	23	73.91	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-14	0.01	0.00008	0.015	No	23	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-17	0.002	0.00034	0.015	No	23	86.96	None	No	0.01	NP (NDs)
Lithium (mg/L)	MCM-04	0.01	0.002	0.049	No	23	65.22	None	No	0.01	NP (NDs)
Lithium (mg/L)	MCM-05	0.042	0.022	0.049	No	24	0	None	No	0.01	NP (normality)

Appendix IV Confidence Intervals - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 7/14/2026, 3:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	MCM-06	0.06211	0.04194	0.049	No	8	0	None	No	0.01	Param.
Lithium (mg/L)	MCM-07	0.03748	0.01893	0.049	No	25	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	MCM-12	0.01123	0.009165	0.049	No	23	13.04	None	x^2	0.01	Param.
Lithium (mg/L)	MCM-14	0.04057	0.02375	0.049	No	25	8	None	No	0.01	Param.
Lithium (mg/L)	MCM-17	0.02518	0.01688	0.049	No	23	4.348	None	No	0.01	Param.
Lithium (mg/L)	**DPZ-02**	**0.09061**	**0.06764**	**0.049**	**Yes**	**14**	**7.143**	**None**	**x^2**	**0.01**	**Param.**
Mercury (mg/L)	MCM-04	0.00071	0.0002	0.002	No	21	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-05	0.0002	0.000042	0.002	No	21	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-06	0.0002	0.00016	0.002	No	22	95.45	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-07	0.00067	0.0002	0.002	No	21	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-14	0.00066	0.0002	0.002	No	21	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-17	0.00064	0.0002	0.002	No	21	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-04	0.001	0.000218	0.1	No	21	90.48	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-05	0.02	0.00113	0.1	No	21	52.38	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-06	0.005	0.0013	0.1	No	22	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MCM-07	0.005	0.00095	0.1	No	21	66.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-12	0.015	0.00044	0.1	No	21	66.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-17	0.001	0.000374	0.1	No	21	71.43	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	DPZ-02	0.005	0.000245	0.1	No	10	60	None	No	0.011	NP (NDs)
Selenium (mg/L)	MCM-04	0.005	0.0025	0.05	No	23	86.96	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-05	0.025	0.0028	0.05	No	24	83.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-06	0.025	0.0054	0.05	No	24	66.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-07	0.025	0.00238	0.05	No	23	56.52	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-12	0.005	0.0021	0.05	No	23	65.22	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-14	0.025	0.0057	0.05	No	23	73.91	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-17	0.025	0.0025	0.05	No	23	60.87	None	No	0.01	NP (NDs)
Selenium (mg/L)	DPZ-02	0.025	0.00205	0.05	No	12	83.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	MCM-06	0.002	0.000076	0.002	No	22	95.45	None	No	0.01	NP (NDs)

Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 4/23/2026, 12:19 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	**MCM-06**	**-0.06621**	**-60**	**-41**	**Yes**	**15**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DPZ-02**	**-0.004569**	**-51**	**-37**	**Yes**	**14**	**7.143**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

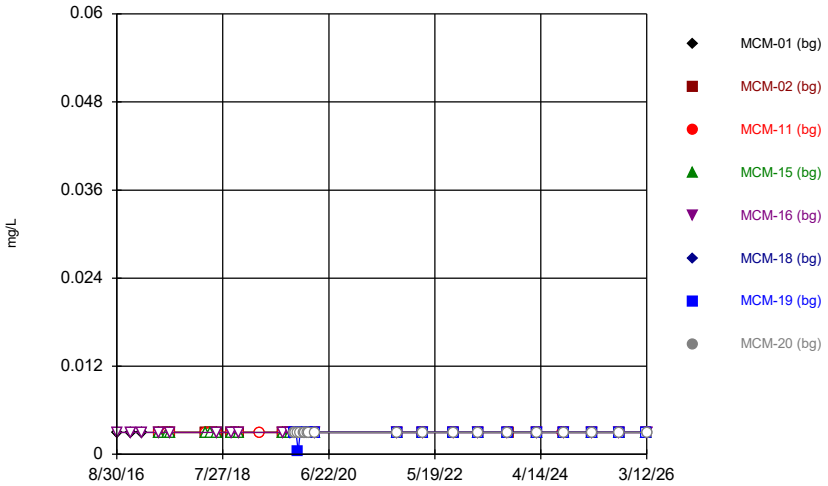
Plant McManus Client: Southern Company Data: McManus AP1 Printed 4/23/2026, 12:19 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	MCM-01 (bg)	-0.000225	-20	-34	No	13	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-02 (bg)	0	11	34	No	13	84.62	n/a	0.05	NP
Arsenic (mg/L)	MCM-11 (bg)	0.001787	33	34	No	13	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-15 (bg)	0.0000142	0	34	No	13	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-16 (bg)	0	13	34	No	13	76.92	n/a	0.05	NP
Arsenic (mg/L)	MCM-18 (bg)	-0.0001281	-55	-58	No	19	10.53	n/a	0.05	NP
Arsenic (mg/L)	MCM-19 (bg)	0.0001025	8	58	No	19	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-20 (bg)	-0.0003331	-11	-58	No	19	0	n/a	0.05	NP
Arsenic (mg/L)	**MCM-06**	**-0.06621**	**-60**	**-41**	**Yes**	**15**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	MCM-01 (bg)	0	4	34	No	13	92.31	n/a	0.05	NP
Lithium (mg/L)	MCM-02 (bg)	0	0	34	No	13	100	n/a	0.05	NP
Lithium (mg/L)	MCM-11 (bg)	0	0	34	No	13	69.23	n/a	0.05	NP
Lithium (mg/L)	MCM-15 (bg)	0	4	34	No	13	92.31	n/a	0.05	NP
Lithium (mg/L)	MCM-16 (bg)	0	4	34	No	13	92.31	n/a	0.05	NP
Lithium (mg/L)	MCM-18 (bg)	0	13	49	No	17	58.82	n/a	0.05	NP
Lithium (mg/L)	MCM-19 (bg)	-0.0001213	-12	-58	No	19	5.263	n/a	0.05	NP
Lithium (mg/L)	MCM-20 (bg)	-0.00003188	-8	-58	No	19	0	n/a	0.05	NP
Lithium (mg/L)	**DPZ-02**	**-0.004569**	**-51**	**-37**	**Yes**	**14**	**7.143**	**n/a**	**0.05**	**NP**

FIGURE A.

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 4/20/2026 12:42 PM
Plant McManus Client: Southern Company Data: McManus AP1

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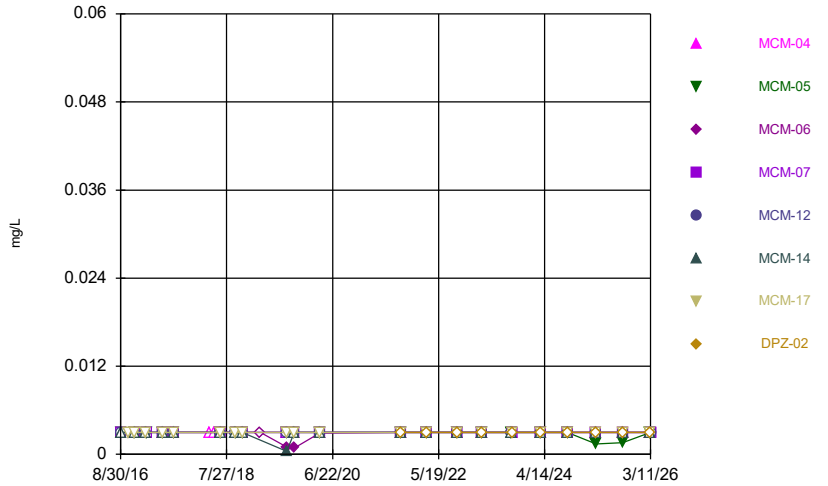
Hollow symbols indicate censored values.

Time Series



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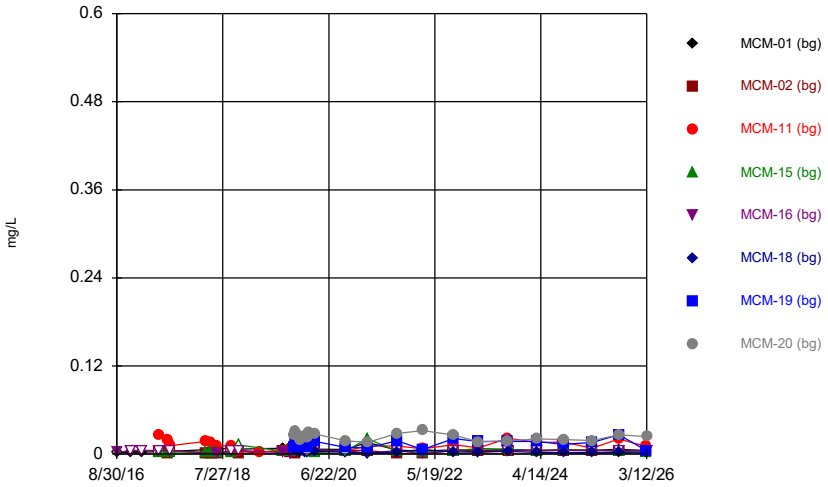
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

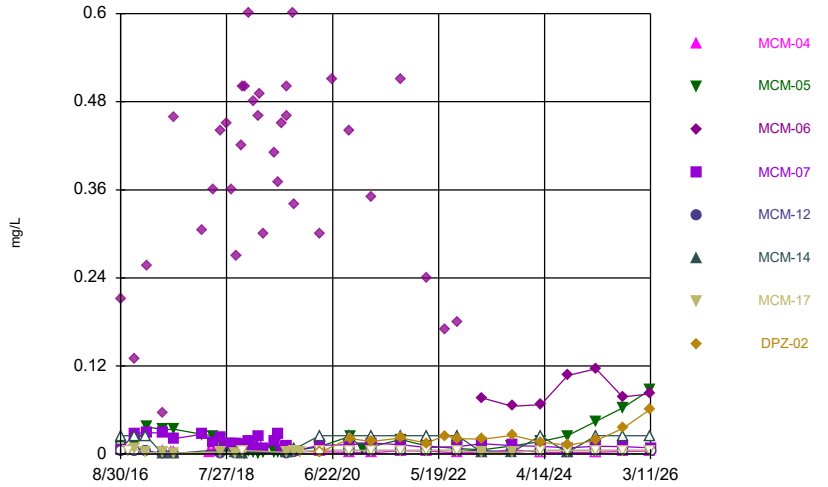
Time Series



Constituent: Arsenic Analysis Run 4/20/2026 12:42 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

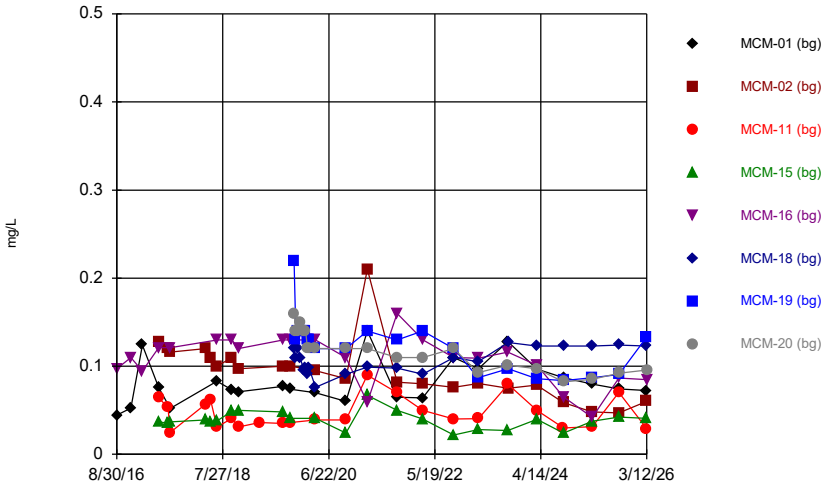
Time Series



Constituent: Arsenic Analysis Run 4/20/2026 12:42 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Time Series

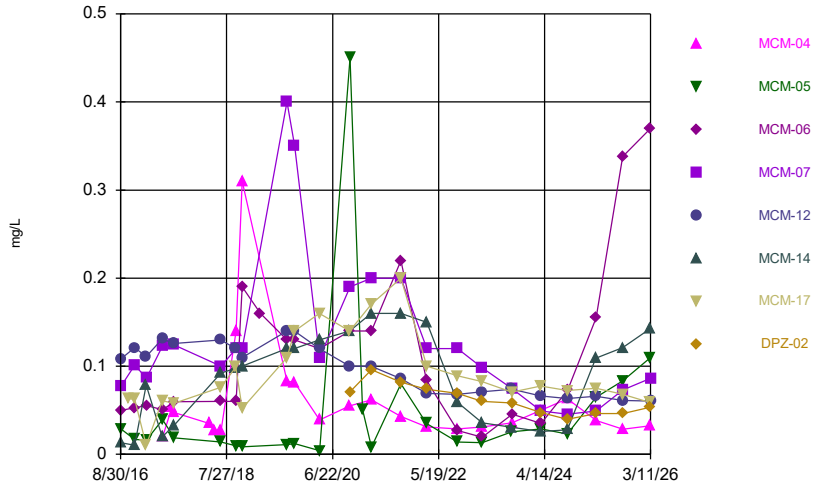


Constituent: Barium Analysis Run 4/20/2026 12:42 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Time Series

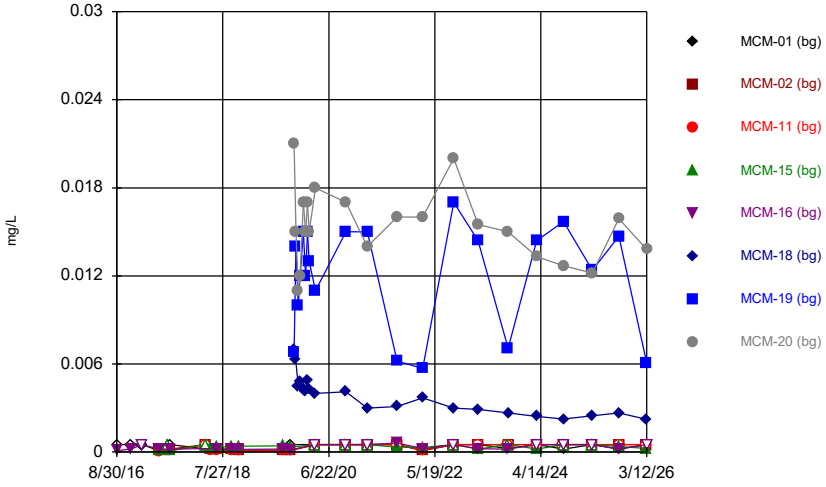


Constituent: Barium Analysis Run 4/20/2026 12:42 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

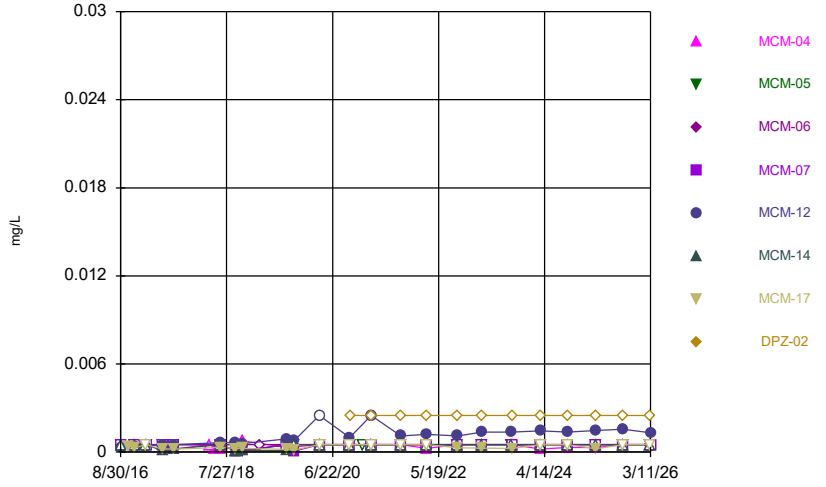


Constituent: Beryllium Analysis Run 4/20/2026 12:42 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

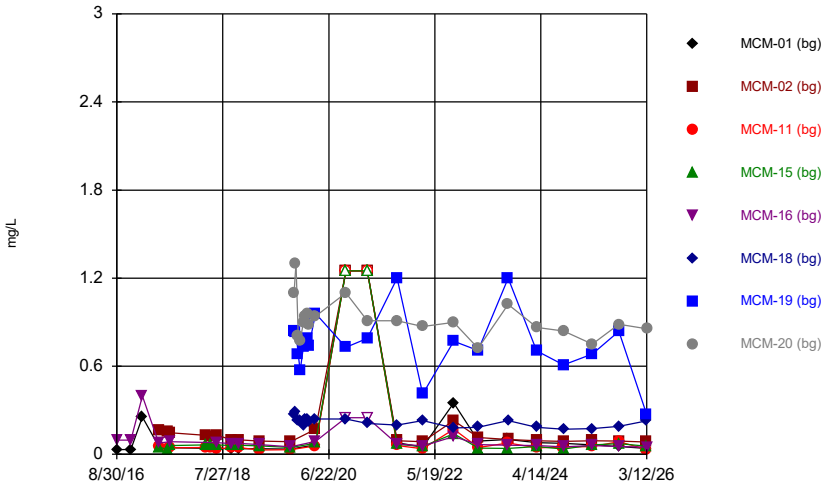


Constituent: Beryllium Analysis Run 4/20/2026 12:42 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

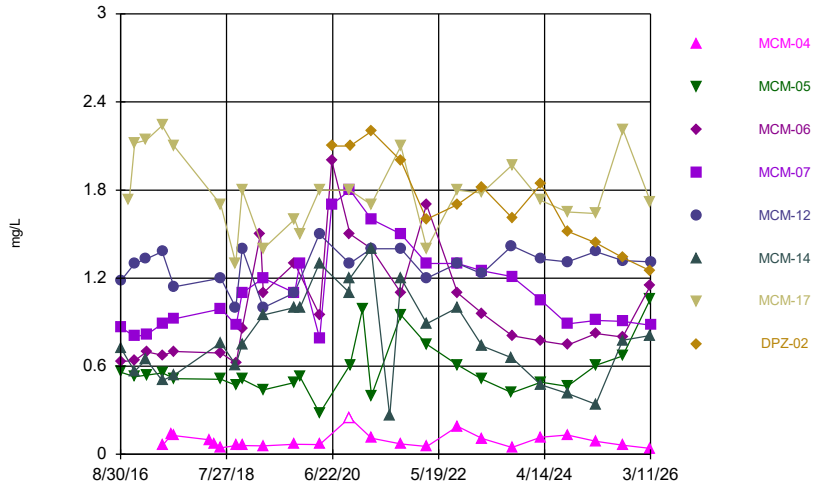
Time Series



Constituent: Boron Analysis Run 4/20/2026 12:42 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

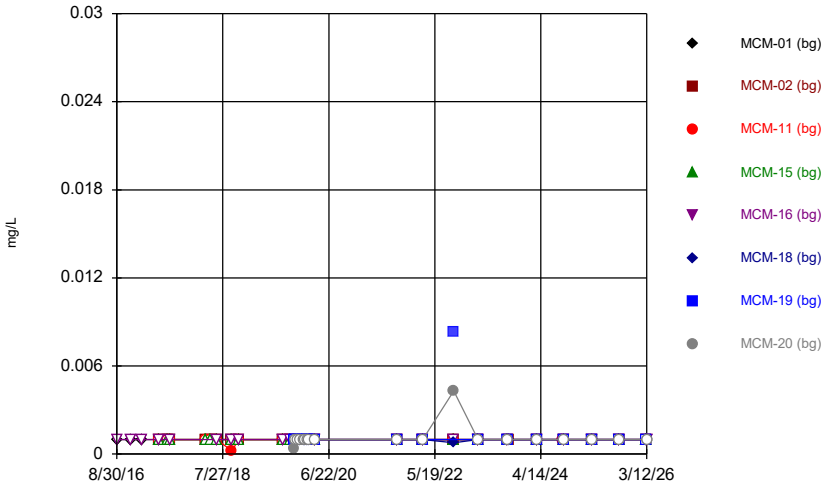
Time Series



Constituent: Boron Analysis Run 4/20/2026 12:42 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

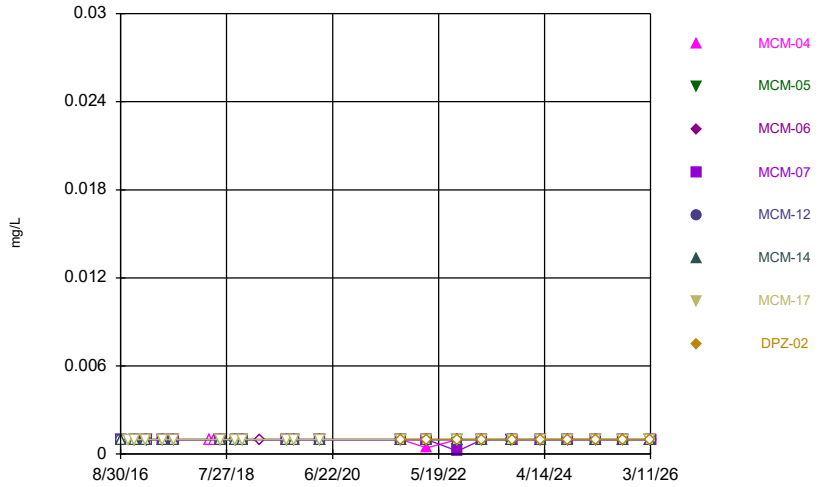
Time Series



Constituent: Cadmium Analysis Run 4/20/2026 12:42 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 4/20/2026 12:42 PM
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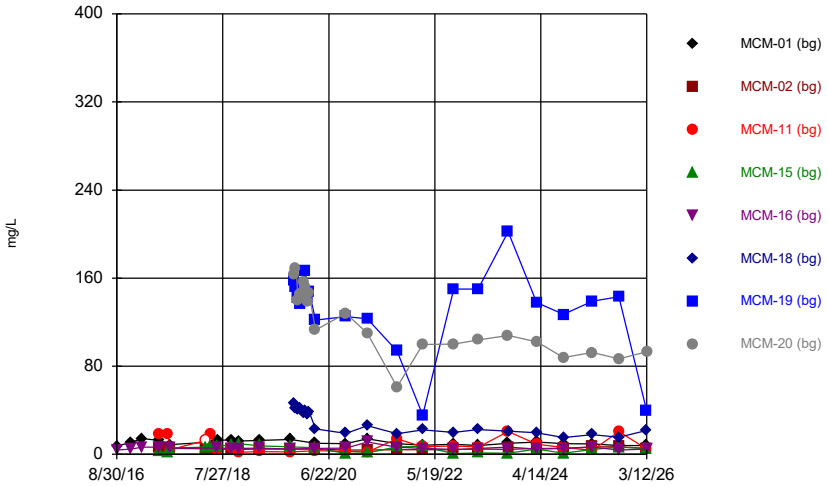
Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

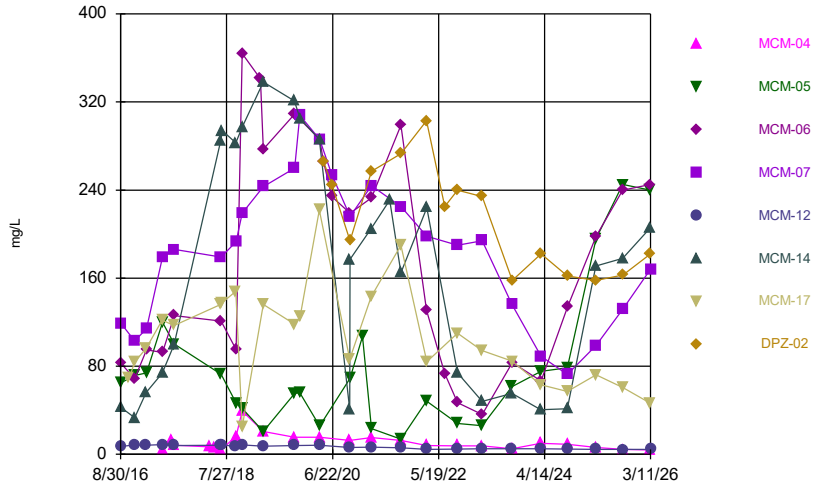
Time Series



Constituent: Calcium Analysis Run 4/20/2026 12:42 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

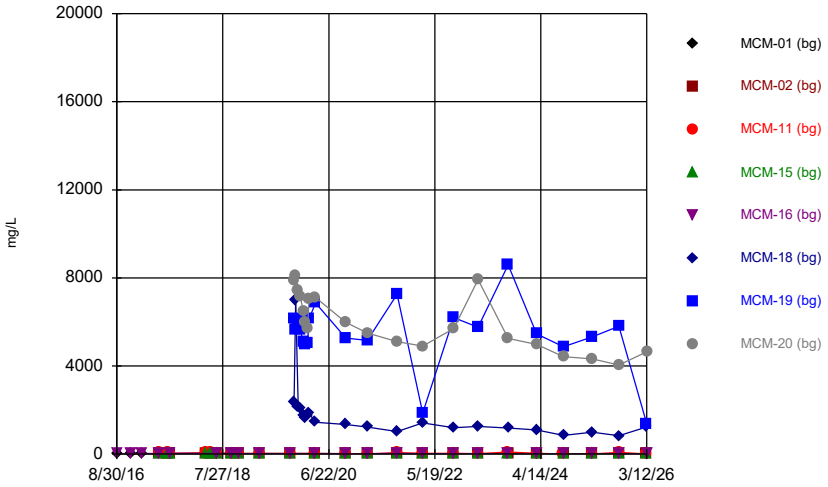
Time Series



Constituent: Calcium Analysis Run 4/20/2026 12:42 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

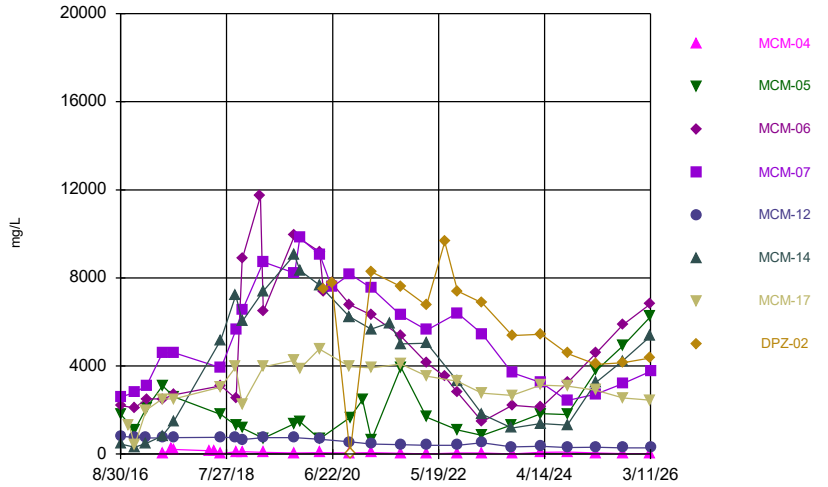
Time Series



Constituent: Chloride Analysis Run 4/20/2026 12:42 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

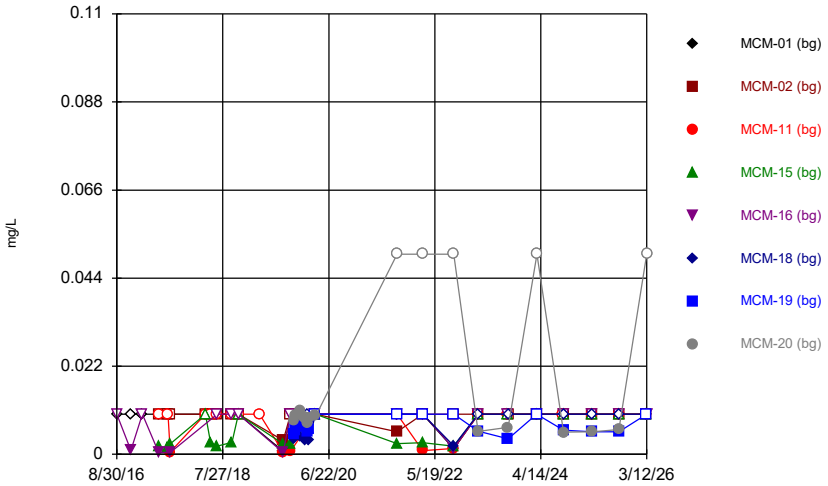
Time Series



Constituent: Chloride Analysis Run 4/20/2026 12:42 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

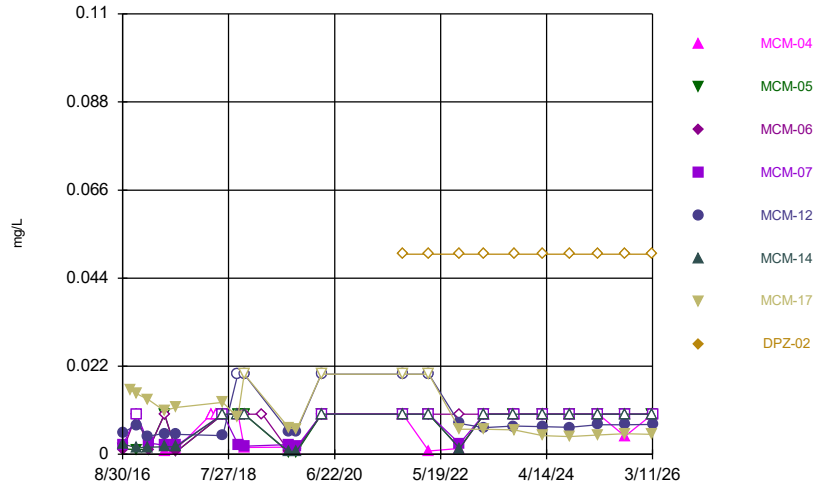
Time Series



Constituent: Chromium Analysis Run 4/20/2026 12:42 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Analysis Run 4/20/2026 12:42 PM
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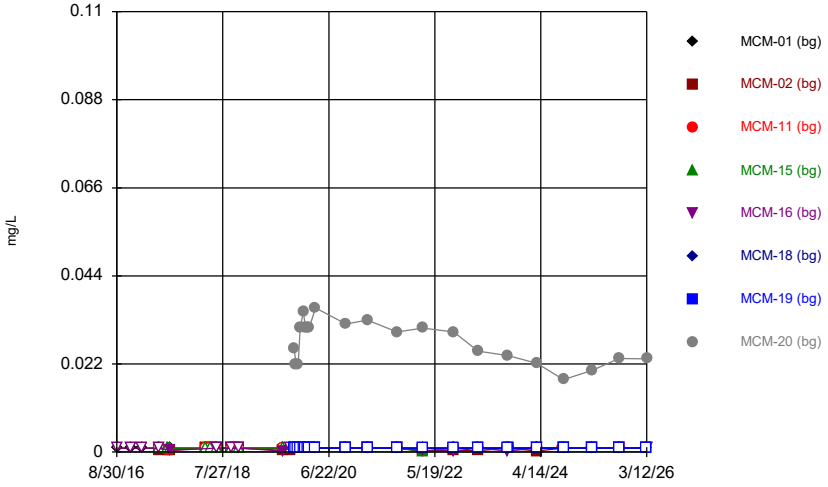
Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

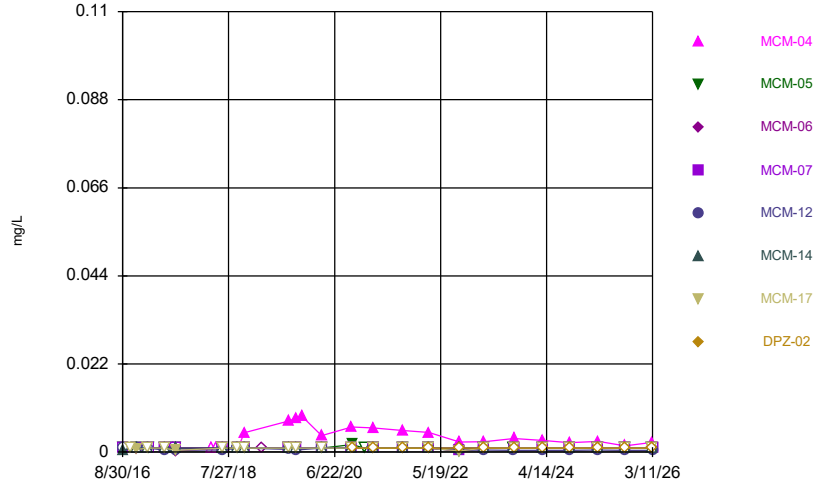
Time Series



Constituent: Cobalt Analysis Run 4/20/2026 12:42 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

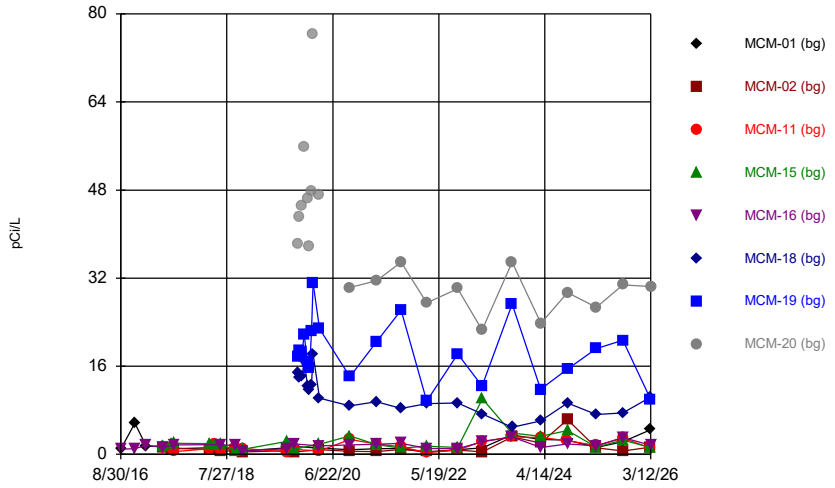
Time Series



Constituent: Cobalt Analysis Run 4/20/2026 12:42 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Time Series

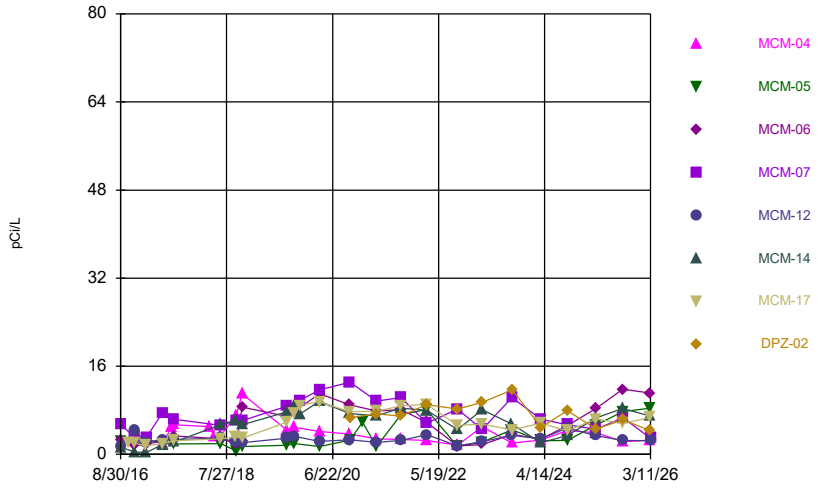


Constituent: Combined Radium 226 + 228 Analysis Run 4/20/2026 12:42 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Time Series

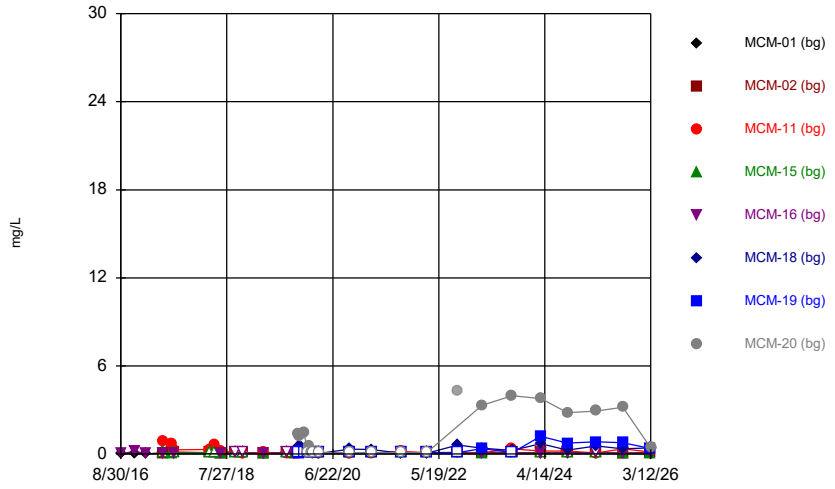


Constituent: Combined Radium 226 + 228 Analysis Run 4/20/2026 12:42 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

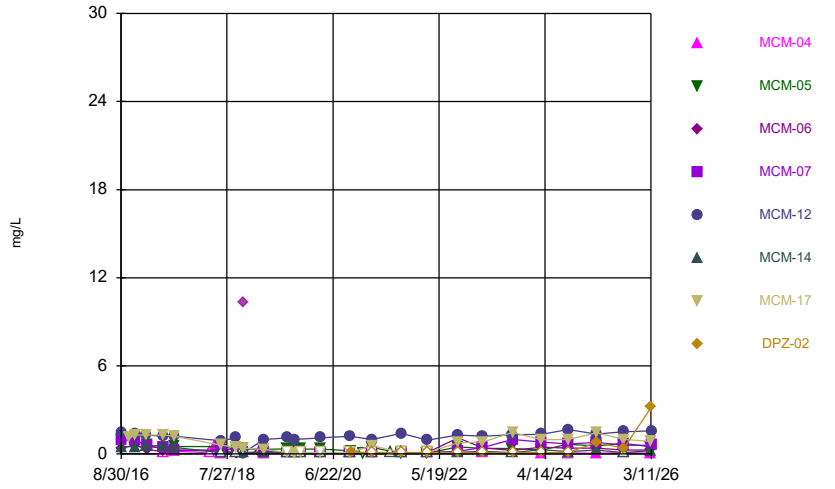


Constituent: Fluoride Analysis Run 4/20/2026 12:42 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 4/20/2026 12:42 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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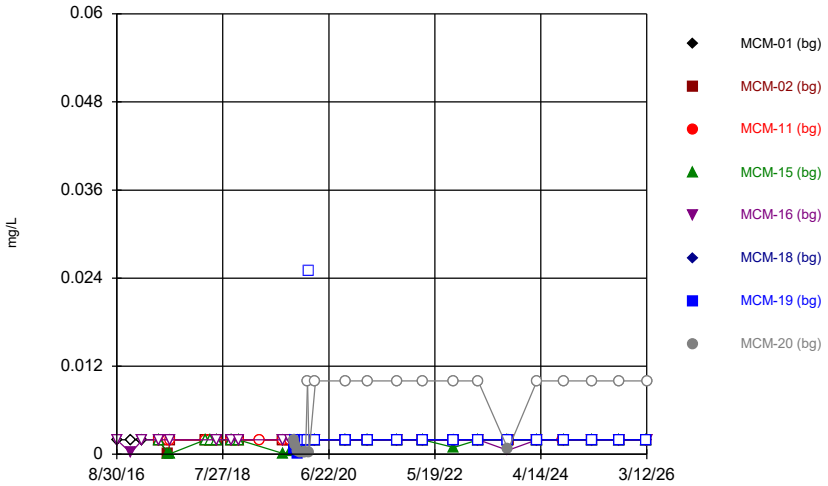
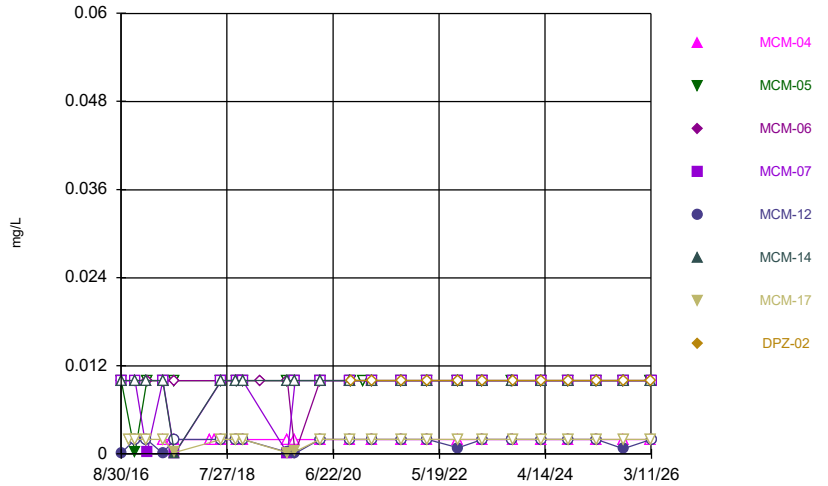


Constituent: Lead Analysis Run 4/20/2026 12:42 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

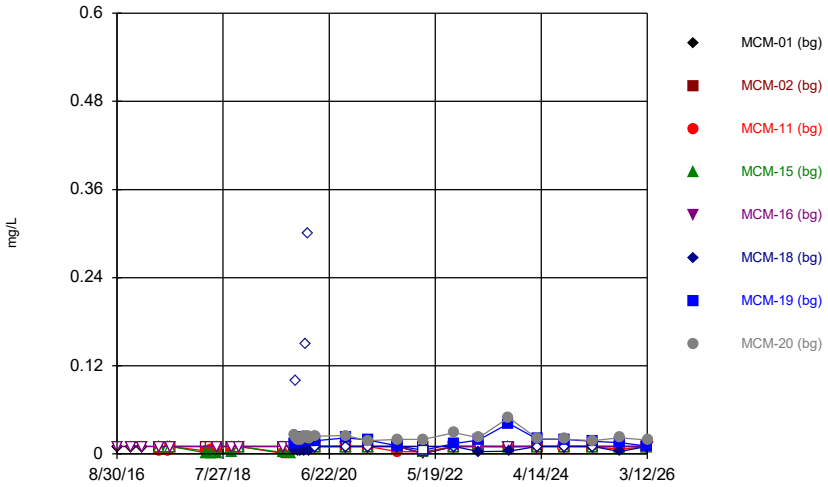
Time Series



Constituent: Lead Analysis Run 4/20/2026 12:42 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lithium Analysis Run 4/20/2026 12:42 PM
Plant McManus Client: Southern Company Data: McManus AP1

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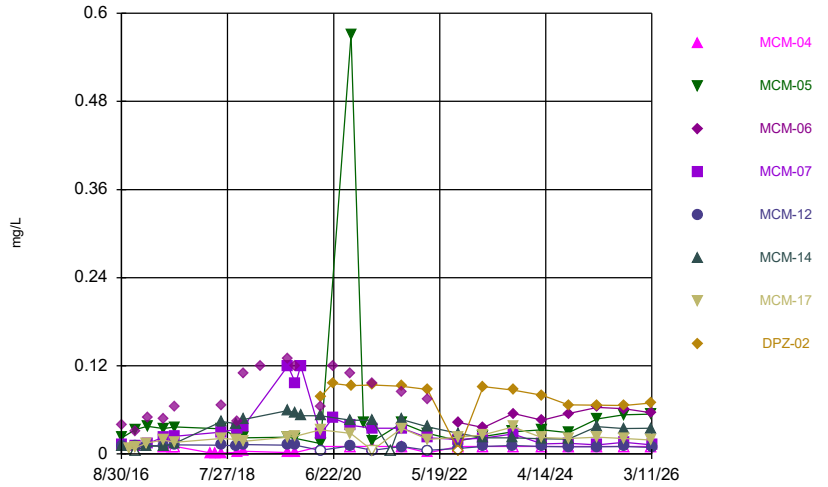
Hollow symbols indicate censored values.

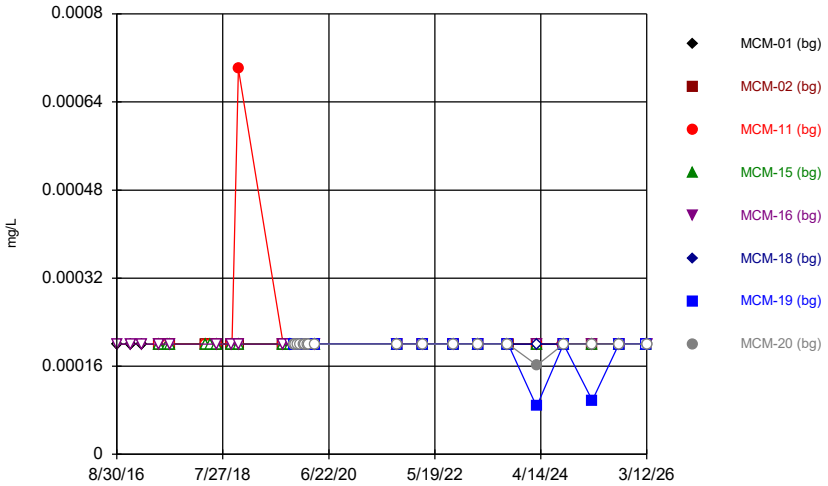
Time Series



Constituent: Lithium Analysis Run 4/20/2026 12:42 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

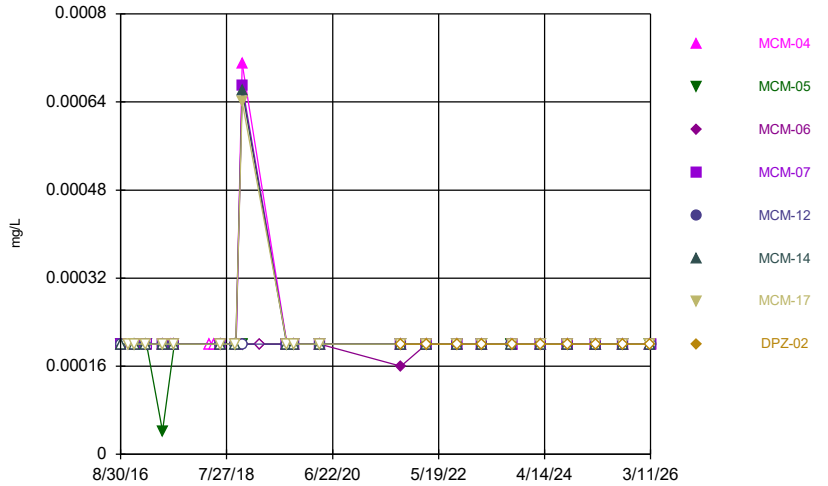
Time Series



Constituent: Mercury Analysis Run 4/20/2026 12:42 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

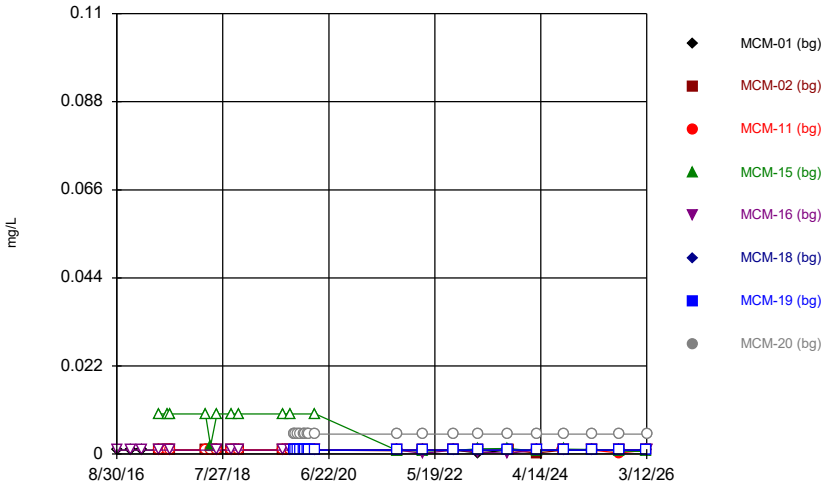
Time Series



Constituent: Mercury Analysis Run 4/20/2026 12:43 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

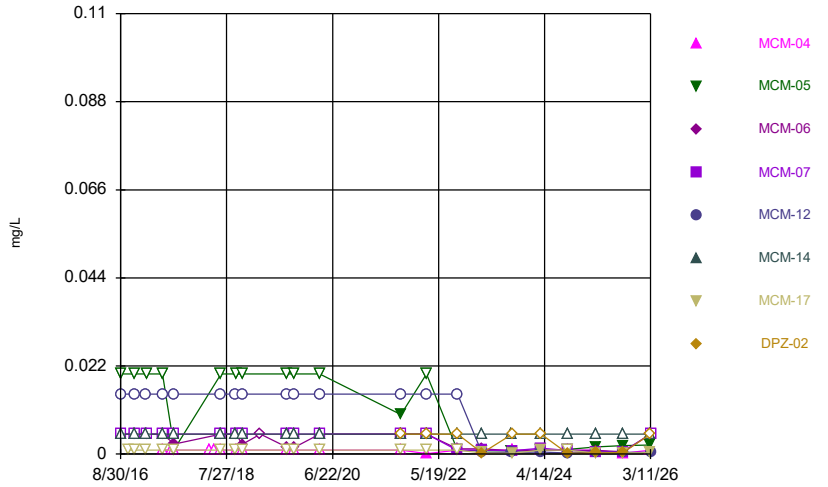
Time Series



Constituent: Molybdenum Analysis Run 4/20/2026 12:43 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

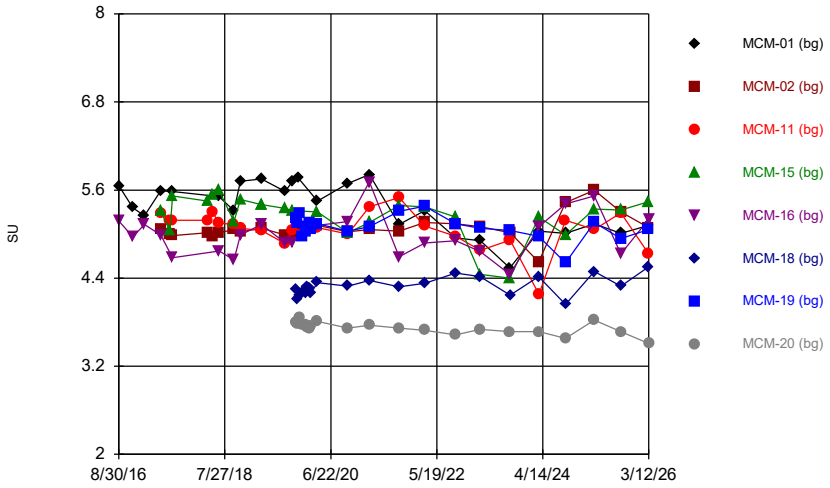
Time Series



Constituent: Molybdenum Analysis Run 4/20/2026 12:43 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Time Series

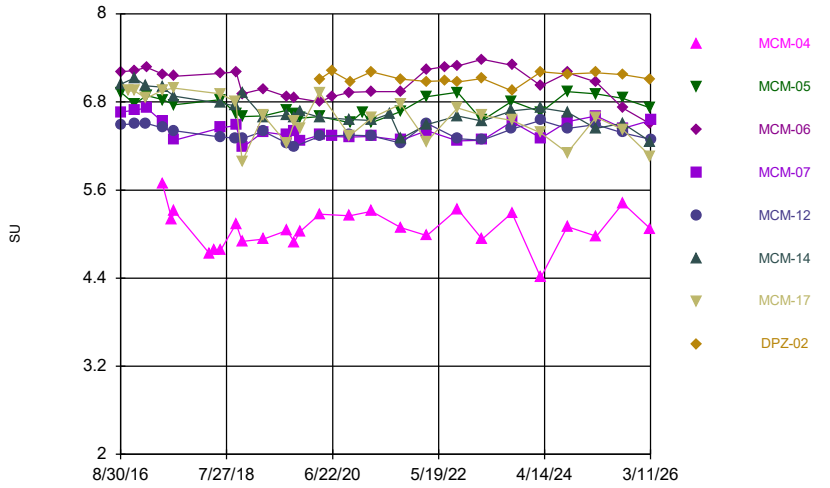


Constituent: pH, Field Analysis Run 4/20/2026 12:43 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Time Series



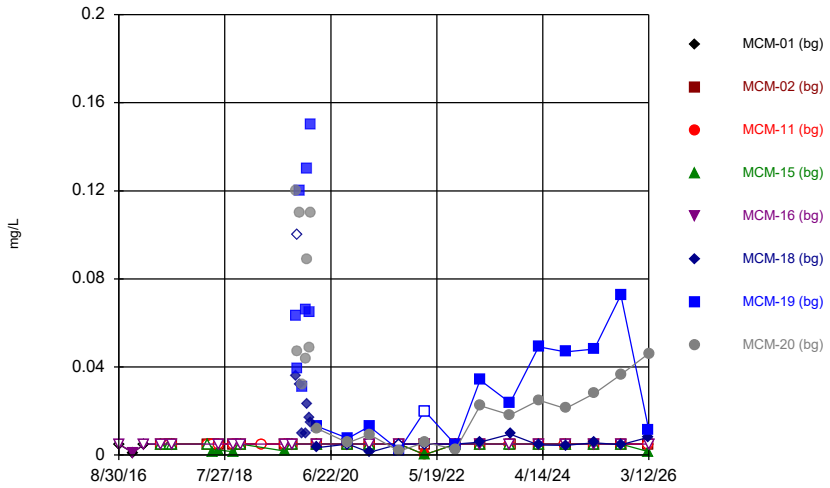
Constituent: pH, Field Analysis Run 4/20/2026 12:43 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



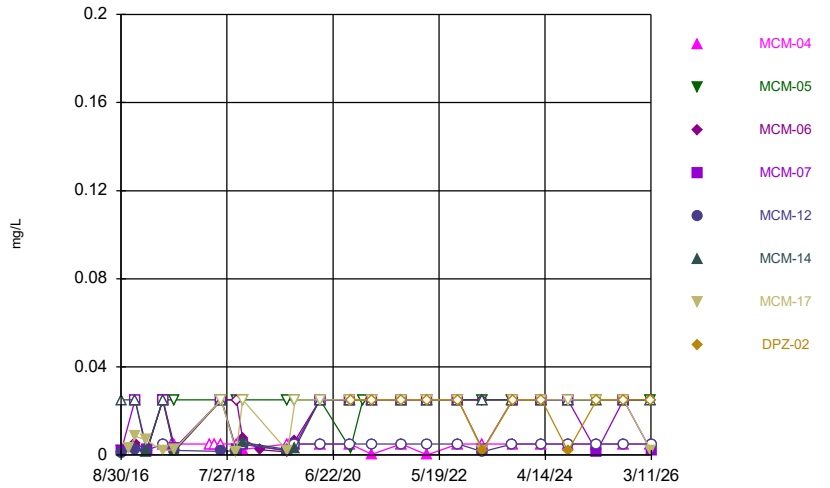
Constituent: Selenium Analysis Run 4/20/2026 12:43 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

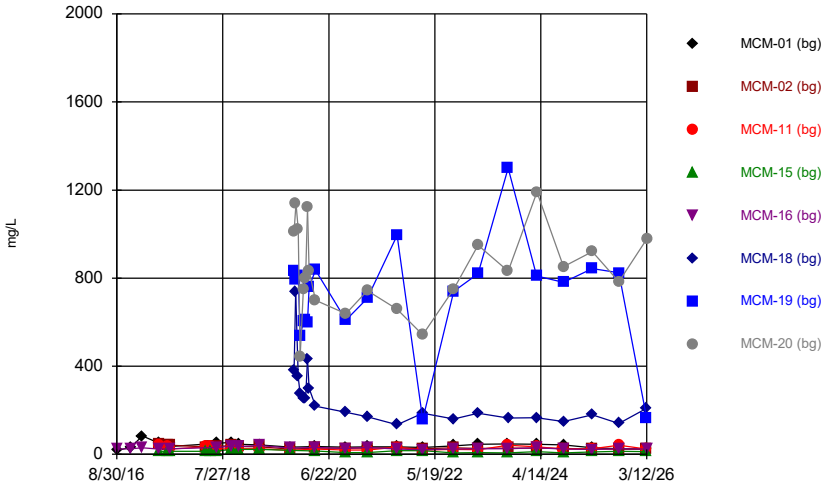


Constituent: Selenium Analysis Run 4/20/2026 12:43 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Time Series



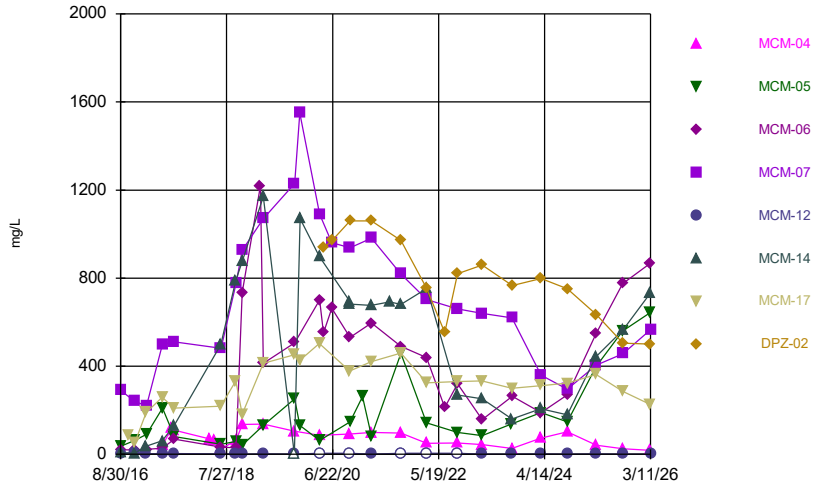
Constituent: Sulfate Analysis Run 4/20/2026 12:43 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



Constituent: Sulfate Analysis Run 4/20/2026 12:43 PM

Plant McManus Client: Southern Company Data: McManus AP1

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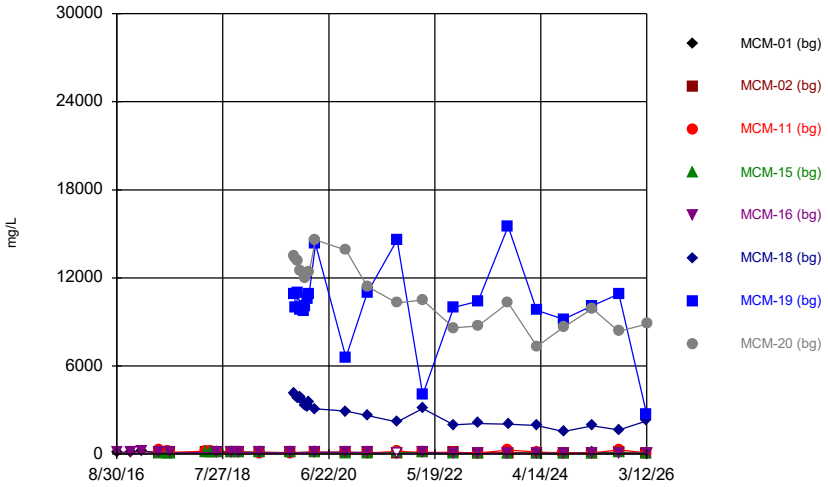
Hollow symbols indicate censored values.

Time Series



Constituent: TDS Analysis Run 4/20/2026 12:43 PM

Plant McManus Client: Southern Company Data: McManus AP1

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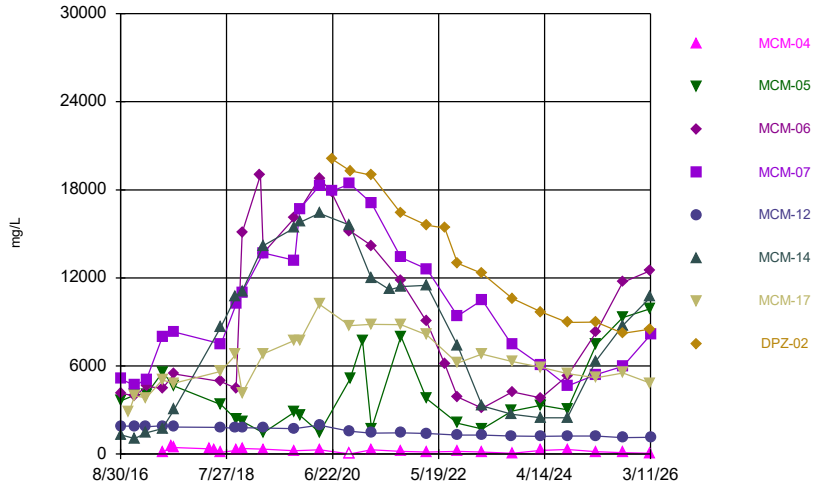
Hollow symbols indicate censored values.

Time Series

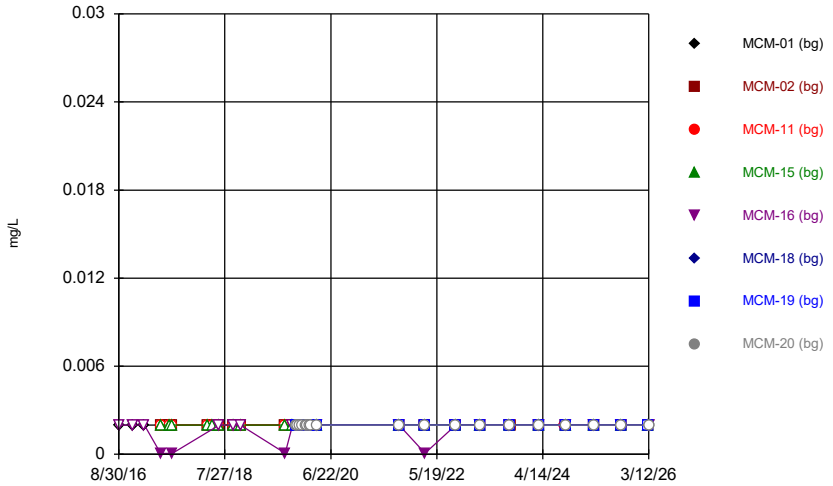


Constituent: TDS Analysis Run 4/20/2026 12:43 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

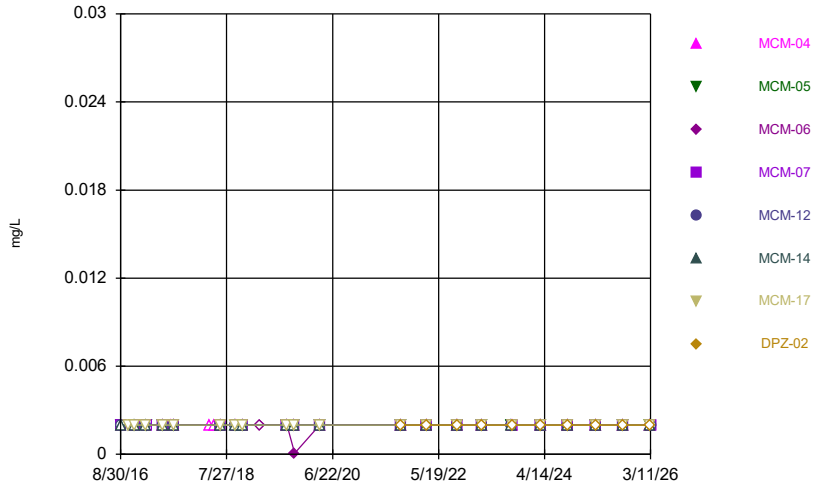
Time Series



Constituent: Thallium Analysis Run 4/20/2026 12:43 PM
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 4/20/2026 12:43 PM
Plant McManus Client: Southern Company Data: McManus AP1

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.003				<0.003			
11/30/2016	<0.003				<0.003			
2/15/2017	<0.003				<0.003			
5/31/2017		<0.003	<0.003					
6/1/2017	<0.003				<0.003			
6/2/2017				<0.003				
8/2/2017		<0.003	<0.003	<0.003				
8/15/2017			<0.003					
8/16/2017	<0.003	<0.003						
8/17/2017				<0.003	<0.003			
4/4/2018			<0.003	<0.003				
4/5/2018		<0.003						
5/8/2018			<0.003	<0.003				
5/9/2018		<0.003						
6/19/2018	<0.003	<0.003	<0.003	<0.003				
6/20/2018					<0.003			
9/25/2018			<0.003					
9/26/2018	<0.003	<0.003		<0.003	<0.003			
11/6/2018			<0.003					
11/7/2018	<0.003	<0.003		<0.003	<0.003			
3/25/2019			<0.003					
8/27/2019	<0.003			<0.003	<0.003			
8/28/2019		<0.003	<0.003					
10/15/2019				<0.003				
10/16/2019	<0.003	<0.003	<0.003		<0.003			
11/7/2019						<0.003	<0.003	<0.003
11/18/2019						<0.003		
11/19/2019							<0.003	<0.003
12/4/2019							0.00041 (J)	<0.003
12/5/2019						<0.003		
12/17/2019							<0.003	
12/18/2019						<0.003		<0.003
1/8/2020							<0.003	<0.003
1/9/2020						<0.003		
1/21/2020						<0.003	<0.003	<0.003
2/4/2020						<0.003	<0.003	<0.003
2/13/2020						<0.003	<0.003	<0.003
3/26/2020	<0.003							
3/27/2020		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
9/14/2021	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
3/1/2022							<0.003	<0.003
3/2/2022	<0.003	<0.003	<0.003	<0.003		<0.003		
3/3/2022					<0.003			
9/20/2022						<0.003	<0.003	<0.003
9/21/2022	<0.003	<0.003	<0.003	<0.003	<0.003			
2/28/2023						<0.003	<0.003	<0.003
3/1/2023	<0.003	<0.003	<0.003		<0.003			
3/2/2023				<0.003				
9/12/2023	<0.003			<0.003	<0.003			
9/13/2023			<0.003				<0.003	<0.003
9/14/2023		<0.003				<0.003		
3/19/2024		<0.003				<0.003	<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/20/2024	<0.003		<0.003	<0.003				
3/21/2024					<0.003			<0.003
9/10/2024			<0.003					
9/11/2024	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003
3/18/2025	<0.003		<0.003					
3/19/2025						<0.003	<0.003	<0.003
3/20/2025		<0.003		<0.003	<0.003			
9/9/2025	<0.003			<0.003		<0.003	<0.003	<0.003
9/10/2025		<0.003	<0.003		<0.003			
3/10/2026	<0.003					<0.003		
3/11/2026		<0.003	<0.003	<0.003			<0.003	
3/12/2026					<0.003			<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.003	<0.003		
8/31/2016		<0.003	<0.003	<0.003				
10/25/2016							<0.003	
11/30/2016		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
2/15/2017					<0.003	<0.003	<0.003	
2/16/2017		<0.003	<0.003	<0.003				
5/31/2017					<0.003	<0.003	<0.003	
6/1/2017	<0.003							
6/2/2017		<0.003	<0.003	<0.003				
8/2/2017	<0.003							
8/15/2017					<0.003		<0.003	
8/16/2017						<0.003		
8/17/2017	<0.003	<0.003	<0.003	<0.003				
4/4/2018	<0.003							
5/8/2018	<0.003							
6/19/2018					<0.003	<0.003	<0.003	
6/20/2018	<0.003	<0.003	<0.003					
6/21/2018				<0.003				
9/25/2018					<0.003	<0.003		
9/26/2018							<0.003	
9/27/2018	<0.003	<0.003	<0.003	<0.003				
11/6/2018	<0.003			<0.003		<0.003	<0.003	
11/7/2018		<0.003	<0.003		<0.003			
3/6/2019			<0.003					
8/26/2019						0.0004 (J)		
8/27/2019	<0.003				<0.003		<0.003	
8/28/2019		<0.003	0.00098 (J)	<0.003				
10/15/2019	<0.003				<0.003	<0.003		
10/16/2019		<0.003					<0.003	
10/17/2019			0.0009 (J)	<0.003				
3/27/2020					<0.003	<0.003	<0.003	
3/28/2020	<0.003	<0.003	0.0029 (J)	<0.003				
9/13/2021					<0.003	<0.003		
9/14/2021	<0.003	<0.003	<0.003	<0.003			<0.003	<0.003
3/1/2022		<0.003	<0.003					<0.003
3/2/2022				<0.003				
3/3/2022	<0.003				<0.003	<0.003	<0.003	
9/20/2022			<0.003					<0.003
9/21/2022	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003	
2/28/2023					<0.003		<0.003	
3/1/2023	<0.003							
3/2/2023		<0.003	<0.003	<0.003		<0.003		<0.003
9/12/2023		<0.003			<0.003	<0.003		
9/13/2023	<0.003			<0.003			<0.003	
9/14/2023			<0.003					<0.003
3/19/2024					<0.003		<0.003	
3/20/2024	<0.003					<0.003		
3/21/2024		<0.003	<0.003	<0.003				<0.003
9/10/2024	<0.003				<0.003		<0.003	
9/11/2024		<0.003		<0.003		<0.003		<0.003
9/12/2024			<0.003					
3/17/2025					<0.003	<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/18/2025							<0.003	<0.003
3/19/2025		0.00142 (J)	<0.003	<0.003				
3/20/2025	<0.003							
9/9/2025		0.00159 (J)	<0.003		<0.003	<0.003		
9/10/2025	<0.003							<0.003
9/11/2025				<0.003			<0.003	
3/10/2026	<0.003	<0.003	<0.003			<0.003	<0.003	<0.003
3/11/2026				<0.003	<0.003			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.005				0.0018 (J)			
11/30/2016	0.0018 (J)				<0.005			
2/15/2017	0.0022 (J)				<0.005			
5/31/2017		<0.005	0.0259					
6/1/2017	0.0036 (J)				<0.005			
6/2/2017				0.0026 (J)				
8/2/2017		0.0011 (J)	0.0188	0.0047 (J)				
8/15/2017			0.0117					
8/16/2017	0.0038 (J)	<0.005						
8/17/2017				0.0028 (J)	<0.005			
4/4/2018			0.017	0.0029 (J)				
4/5/2018		0.00098 (J)						
5/8/2018			0.016	0.0048 (J)				
5/9/2018		0.0014 (J)						
6/19/2018	0.0069	0.0011 (J)	0.011	0.0019 (J)				
6/20/2018					0.00058 (J)			
9/25/2018			0.011					
9/26/2018	0.0081	<0.005		0.0023 (J)	<0.005			
11/6/2018			0.0043 (J)					
11/7/2018	0.0069	0.00059 (J)		<0.025	<0.005			
3/25/2019			0.0029 (J)					
8/27/2019	0.0079			0.0041 (J)	0.0019 (J)			
8/28/2019		<0.005	0.005 (J)					
10/15/2019				0.0038 (J)				
10/16/2019	0.01	0.003 (J)	0.0054		0.001 (J)			
11/7/2019						0.0067	0.0094 (J)	0.026
11/18/2019						0.012 (J)		
11/19/2019		0.00057 (J)					0.019 (J)	0.031 (J)
11/20/2019	0.0064							
12/4/2019							0.016	0.026
12/5/2019						0.0055		
12/17/2019							0.011 (J)	
12/18/2019						0.0031 (J)		0.019 (J)
1/8/2020							0.015 (J)	0.022 (J)
1/9/2020						0.0034 (J)		
1/21/2020						0.0031 (J)	0.015 (J)	0.024 (J)
2/4/2020						<0.005	0.0092 (J)	0.022 (J)
2/13/2020						0.0066	0.021 (J)	0.029
3/26/2020	0.0069							
3/27/2020		<0.005	0.0034 (J)	0.0018 (J)	<0.005	0.0043 (J)	0.017	0.027
10/12/2020			0.0047 (J)			<0.005		
10/13/2020	0.0061	<0.005		0.0042 (J)	<0.005		0.0089	0.018
3/2/2021				0.021 (J)				
3/3/2021	0.016 (J)	<0.005	0.011 (J)		0.0012 (J)	0.0014 (J)	0.0086 (J)	0.016 (J)
9/14/2021	0.0055	0.00067 (J)	0.011	0.0035 (J)	<0.005	0.0029 (J)	0.018 (J)	0.028
3/1/2022							0.0061 (J)	0.032
3/2/2022	0.0043	0.00077 (J)	0.0071	0.0032		0.0064 (J)		
3/3/2022					0.00024 (J)			
9/20/2022						0.0026 (J)	0.021	0.026
9/21/2022	0.0057 (J)	<0.005	0.013	0.0044 (J)	<0.005			
2/28/2023						0.00273 (J)	0.0173	0.0166
3/1/2023	0.00493 (J)	<0.005	0.00868 (J)		0.00223 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/2/2023				0.00756 (J)				
9/12/2023	0.00628			0.00677	<0.005			
9/13/2023			0.0217				0.0172	0.0182
9/14/2023		<0.005				0.00374 (J)		
3/19/2024		<0.005				0.00252 (J)	0.0173 (J)	
3/20/2024	0.0048 (J)		0.0158	0.00409 (J)				
3/21/2024					<0.005			0.0206 (J)
9/10/2024			0.0163					
9/11/2024	0.00586	<0.005		0.00538	<0.005	0.0021 (J)	0.0134	0.0197
3/18/2025	0.00514		0.00783					
3/19/2025						0.00245 (J)	0.0158	0.0183
3/20/2025		<0.005		0.00584	<0.005			
9/9/2025	0.00658			0.00381 (J)		0.00246 (J)	0.0262	0.0262
9/10/2025		<0.005	0.0206		<0.005			
3/10/2026	0.00449 (J)					0.00296 (J)		
3/11/2026		<0.005	0.0104	0.00216 (J)			0.00459 (J)	
3/12/2026					<0.005			0.0236 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.005	<0.025		
8/31/2016		<0.02	0.212	0.0066				
10/25/2016							<0.005	
11/30/2016		0.0132	0.129	0.0281	<0.005	<0.025	0.0072	
2/15/2017					<0.005	<0.025	0.0017 (J)	
2/16/2017		0.0372	0.257	0.0295				
5/31/2017					0.0007 (J)	0.0008 (J)	0.0018 (J)	
6/1/2017	0.004 (J)							
6/2/2017		0.0335	0.0559	0.0286				
8/2/2017	0.0028 (J)							
8/15/2017					0.0006 (J)		0.0015 (J)	
8/16/2017						0.0007 (J)		
8/17/2017	0.0021 (J)	0.0336	0.458	0.0211				
2/20/2018		0.0267	0.305	0.0271				
4/4/2018	0.0023 (J)							
4/30/2018		0.025 (J)	0.36	0.016 (J)				
5/8/2018	0.0048 (J)							
6/19/2018					0.001 (J)	0.0062 (J)	0.0029 (J)	
6/20/2018	0.0099	0.019	0.44					
6/21/2018				0.022 (J)				
7/24/2018		0.0079	0.45	0.014				
8/28/2018		0.0079	0.36	0.014				
9/25/2018					0.0011 (J)	0.0031 (J)		
9/26/2018							0.0015 (J)	
9/27/2018	0.01	0.0035 (J)	0.27	0.015				
10/30/2018		0.0029 (J)	0.42	0.0061				
11/6/2018	0.013			0.012		0.0014 (J)	<0.005	
11/7/2018		0.002 (J)	0.5		<0.005			
11/27/2018		0.0016 (J)	0.5	0.011				
12/18/2018		0.0043 (J)	0.6	0.018				
1/22/2019		0.0028 (J)	0.48	0.0097				
2/22/2019		0.00095 (J)	0.46	0.024 (J)				
3/6/2019			0.49					
3/26/2019		0.0018 (J)	0.3	0.0078				
6/4/2019		0.0019 (J)	0.41	0.017				
7/2/2019		0.0024 (J)	0.37	0.027				
7/29/2019		0.0021 (J)	0.45	0.0053				
8/26/2019		0.0021 (J)	0.46	0.0052		0.0022 (J)		
8/27/2019	0.0072				0.0011 (J)		0.0024 (J)	
8/28/2019		0.0019 (J)	0.5	0.011				
9/30/2019		0.002 (J)		0.0036 (J)				
10/2/2019			0.6					
10/15/2019	0.0038 (J)				0.0024 (J)	0.0067		
10/16/2019		0.0047 (J)					0.0043 (J)	
10/17/2019			0.34	0.0046 (J)				
11/21/2019							0.0031 (J)	
3/27/2020					<0.005	<0.025	<0.005	
3/28/2020	0.0034 (J)	<0.02	0.3	0.012				<0.005
6/16/2020			0.51					
10/12/2020					<0.005			
10/13/2020	0.0022 (J)					<0.025	<0.005	
10/14/2020			0.44 (D)	0.013		<0.025		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
10/15/2020		0.024						0.021
1/4/2021		0.0072						
3/2/2021					<0.005	<0.025		
3/3/2021							<0.005	
3/4/2021	0.0018 (J)	<0.02	0.35	0.015 (J)				0.017 (J)
9/13/2021					<0.005	<0.025		
9/14/2021	0.0047 (J)	0.02 (J)	0.51	0.013 (J)			<0.005	0.022
3/1/2022		0.011 (J)	0.24					0.015 (J)
3/2/2022				0.009 (J)				
3/3/2022	0.0041				<0.005	<0.025	<0.005	
6/28/2022			0.17					0.025
9/20/2022			0.18					0.021
9/21/2022	0.0017 (J)	0.0077		0.01	<0.005	<0.025	<0.005	
2/28/2023					<0.005		0.00226 (J)	
3/1/2023	0.00247 (J)							
3/2/2023		0.00578 (J)	0.0764	0.014		0.00201 (J)		0.0202
9/12/2023		0.0113			0.00234 (J)	0.00263 (J)		
9/13/2023	0.00601			0.0117			0.00283 (J)	
9/14/2023			0.0653					0.0254
3/19/2024					<0.005		<0.005	
3/20/2024	<0.005					<0.025		
3/21/2024		0.017	0.0675	0.0107 (J)				0.0163 (J)
9/10/2024	<0.005				<0.005		<0.005	
9/11/2024		0.0249		0.00833		0.00215 (J)		0.0121
9/12/2024			0.107					
3/17/2025					<0.005	<0.025		
3/18/2025							<0.005	0.0185
3/19/2025		0.0447	0.116	0.0106				
3/20/2025	<0.005							
9/9/2025		0.0629	0.0777		<0.005	<0.025		
9/10/2025	0.00382 (J)							0.0351
9/11/2025				0.0104 (J)			<0.005	
3/10/2026	0.00403 (J)	0.0877	0.0821			<0.025	<0.005	0.0611
3/11/2026				0.00829	<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.0443				0.0973			
11/30/2016	0.0524				0.11			
2/15/2017	0.124				0.0945			
5/31/2017		0.127	0.0646					
6/1/2017	0.0757				0.121			
6/2/2017				0.0368 (J)				
8/2/2017		0.121	0.0533	0.0355				
8/15/2017			0.0247					
8/16/2017	0.0522	0.116						
8/17/2017				0.037	0.121			
4/4/2018			0.057	0.039				
4/5/2018		0.12						
5/8/2018			0.062	0.037				
5/9/2018		0.11						
6/19/2018	0.083	0.1	0.031	0.038				
6/20/2018					0.13			
9/25/2018			0.041					
9/26/2018	0.073	0.11		0.049	0.13			
11/6/2018			0.031					
11/7/2018	0.071	0.097		0.05	0.12			
3/25/2019			0.036					
8/27/2019	0.077			0.048	0.13			
8/28/2019		0.1	0.035					
10/15/2019				0.041				
10/16/2019	0.074	0.1	0.036		0.13			
11/7/2019						0.12	0.22	0.16
11/18/2019						0.11		
11/19/2019							0.13	0.14
12/4/2019							0.14	0.14
12/5/2019						0.12		
12/17/2019							0.14	
12/18/2019						0.11		0.15
1/8/2020							0.14	0.14
1/9/2020						0.096		
1/21/2020						0.098	0.14	0.14
2/4/2020						0.091	0.13	0.12
2/13/2020						0.098	0.13	0.12
3/26/2020	0.07							
3/27/2020		0.095	0.039	0.041	0.13	0.076	0.12	0.12
10/12/2020			0.039			0.091		
10/13/2020	0.06	0.086		0.024	0.11		0.12	0.12
3/2/2021				0.067				
3/3/2021	0.14	0.21	0.09		0.059	0.099	0.14	0.12
9/14/2021	0.065	0.082	0.07	0.05	0.16	0.098	0.13	0.11
3/1/2022							0.14	0.11
3/2/2022	0.064	0.08	0.05	0.04		0.091		
3/3/2022					0.13			
9/20/2022						0.11	0.12	0.12
9/21/2022	0.11	0.076	0.04	0.022	0.11			
2/28/2023						0.105 (J)	0.0869 (J)	0.0928 (J)
3/1/2023	0.097 (J)	0.0806 (J)	0.0405 (J)		0.109 (J)			
3/2/2023				0.0282 (J)				

Time Series

Constituent: Barium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/12/2023	0.128			0.0272	0.116			
9/13/2023			0.0794				0.097	0.101
9/14/2023		0.075				0.127		
3/19/2024		0.0787				0.123	0.0858	
3/20/2024	0.0969		0.05	0.0396				
3/21/2024					0.101			0.097
9/10/2024			0.0301					
9/11/2024	0.0868	0.0585		0.0243	0.0651	0.123	0.0837	0.0823
3/18/2025	0.0796		0.0313					
3/19/2025						0.123	0.0871	0.0852
3/20/2025		0.048		0.0374	0.0421			
9/9/2025	0.0742			0.0422		0.124	0.0906	0.0921
9/10/2025		0.0472	0.0702		0.0866			
3/10/2026	0.0723					0.123		
3/11/2026		0.0602	0.0292	0.041			0.133	
3/12/2026					0.0847			0.0956

Time Series

Constituent: Barium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.108	0.0131		
8/31/2016		0.0289	0.0498	0.0771				
10/25/2016							0.063	
11/30/2016		0.0168	0.0528	0.101	0.121	0.0105	0.0628	
2/15/2017					0.111	0.0786	0.0102	
2/16/2017		0.016	0.0555	0.0865				
5/31/2017					0.131	0.0199	0.061	
6/1/2017	0.0195							
6/2/2017		0.0393 (J)	0.0508	0.123				
8/2/2017	0.053							
8/15/2017					0.126		0.0579	
8/16/2017						0.033		
8/17/2017	0.0475	0.0188	0.0596	0.124				
4/4/2018	0.035							
5/8/2018	0.027							
6/19/2018					0.13	0.092	0.076	
6/20/2018	0.027	0.014	0.06					
6/21/2018				0.1				
9/25/2018					0.12	0.098		
9/26/2018							0.099	
9/27/2018	0.14	0.0097 (J)	0.06	0.12				
11/6/2018	0.31			0.12		0.1	0.052	
11/7/2018		0.0085 (J)	0.19		0.11			
3/6/2019			0.16					
8/26/2019						0.12		
8/27/2019	0.083				0.14		0.11	
8/28/2019		0.011	0.13	0.4				
10/15/2019	0.082				0.14	0.12		
10/16/2019		0.012					0.14	
10/17/2019			0.13	0.35				
3/27/2020					0.12	0.13	0.16	
3/28/2020	0.039	0.0041 (J)	0.12	0.11				
10/12/2020					0.1			
10/13/2020	0.055					0.14	0.14	
10/14/2020			0.14	0.19				
10/15/2020		0.45						0.071
1/4/2021		0.051						
3/2/2021					0.1	0.16		
3/3/2021							0.17	
3/4/2021	0.062	0.0082 (J)	0.14	0.2				0.096
9/13/2021					0.086	0.16		
9/14/2021	0.043	0.08	0.22	0.2			0.2	0.082
3/1/2022		0.035	0.084					0.074
3/2/2022				0.12				
3/3/2022	0.031				0.069	0.15	0.1	
9/20/2022			0.027					0.069
9/21/2022	0.029	0.014		0.12	0.068	0.059	0.089	
2/28/2023					0.071 (J)		0.0828 (J)	
3/1/2023	0.031 (J)							
3/2/2023		0.0133 (J)	0.0195 (J)	0.0982 (J)		0.0356 (J)		0.0601 (J)
9/12/2023		0.0257			0.074	0.0306		
9/13/2023	0.0358			0.0745			0.0706	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/14/2023			0.0456					0.0583
3/19/2024					0.0661		0.0776	
3/20/2024	0.0501					0.026		
3/21/2024		0.0287	0.0352	0.0493				0.0473
9/10/2024	0.063				0.0633		0.0724	
9/11/2024		0.023		0.0454		0.0279		0.0398
9/12/2024			0.0727					
3/17/2025					0.0658	0.109		
3/18/2025							0.0751	0.0462
3/19/2025		0.065	0.155	0.0492				
3/20/2025	0.0383							
9/9/2025		0.0834	0.338		0.0611	0.121		
9/10/2025	0.0285							0.0463
9/11/2025				0.0733			0.0682	
3/10/2026	0.0326	0.11	0.37			0.143	0.0588	0.0535
3/11/2026				0.0863	0.0606			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.0005				0.0001 (J)			
11/30/2016	<0.0005				0.0002 (J)			
2/15/2017	<0.0005				<0.0005			
5/31/2017		0.0002 (J)	7E-05 (J)					
6/1/2017	9E-05 (J)				0.0002 (J)			
6/2/2017				0.0001 (J)				
8/2/2017		0.0002 (J)	0.0001 (J)	<0.0005				
8/15/2017			9E-05 (J)					
8/16/2017	<0.0005	0.0002 (J)						
8/17/2017				0.0001 (J)	0.0002 (J)			
4/4/2018			<0.0005	<0.0005				
4/5/2018		<0.0005						
5/8/2018			0.0001 (J)	0.00031 (J)				
5/9/2018		0.00017 (J)						
6/19/2018	0.00011 (J)	0.00017 (J)	0.00011 (J)	0.00034 (J)				
6/20/2018					0.00024 (J)			
9/25/2018			0.0001 (J)					
9/26/2018	9.2E-05 (J)	0.00017 (J)		0.00039 (J)	0.00019 (J)			
11/6/2018			0.00012 (J)					
11/7/2018	0.0001 (J)	0.00015 (J)		0.00041 (J)	0.00019 (J)			
8/27/2019	9E-05 (J)			0.00042 (J)	0.00021 (J)			
8/28/2019		0.00011 (J)	8.4E-05 (J)					
10/15/2019				0.00034 (J)				
10/16/2019	<0.0005	0.00013 (J)	9E-05 (J)		0.00014 (J)			
11/7/2019						0.007	0.0068 (J)	0.021
11/18/2019						0.0063 (J)		
11/19/2019							0.014 (J)	0.015 (J)
12/4/2019							0.01	0.011
12/5/2019						0.0045		
12/17/2019							0.012	
12/18/2019						0.0048		0.012
1/8/2020							0.015 (J)	0.017
1/9/2020						0.0043		
1/21/2020						0.0041 (J)	0.012 (J)	0.015
2/4/2020						0.0049 (J)	0.015 (J)	0.017 (J)
2/13/2020						0.0043	0.013 (J)	0.015 (J)
3/26/2020	<0.0005							
3/27/2020		<0.0005	<0.0005	<0.0005	<0.0005	0.004	0.011	0.018
10/12/2020			<0.0005			0.0041		
10/13/2020	<0.0005	<0.0005		<0.0005	<0.0005		0.015	0.017
3/2/2021				<0.0005				
3/3/2021	<0.0005	<0.0005	<0.0005		<0.0005	0.003	0.015	0.014
9/14/2021	<0.0005	<0.0005	<0.0005	0.00034 (J)	0.00062	0.0031	0.0062	0.016
3/1/2022							0.0057	0.016
3/2/2022	9.6E-05 (J)	0.00015	0.00011	0.00032		0.0037		
3/3/2022					0.00023			
9/20/2022						0.003	0.017	0.02
9/21/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
2/28/2023						0.0029 (J)	0.0144	0.0155
3/1/2023	<0.0005	<0.0005	<0.0005		0.000223 (J)			
3/2/2023				0.000201 (J)				
9/12/2023	0.000253 (J)			<0.0005	0.000209 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/13/2023			<0.0005				0.00707	0.015
9/14/2023		<0.0005				0.00267		
3/19/2024		<0.0005				0.00243	0.0144	
3/20/2024	<0.0005		<0.0005	0.000215 (J)				
3/21/2024					<0.0005			0.0133
9/10/2024			<0.0005					
9/11/2024	0.0002 (J)	<0.0005		<0.0005	<0.0005	0.00225	0.0157	0.0127
3/18/2025	<0.0005		<0.0005					
3/19/2025						0.00248	0.0124	0.0122
3/20/2025		<0.0005		<0.0005	<0.0005			
9/9/2025	0.000216 (J)			0.000375 (J)		0.00266	0.0147	0.0159
9/10/2025		<0.0005	<0.0005		0.000203 (J)			
3/10/2026	<0.0005					0.00224		
3/11/2026		<0.0005	<0.0005	0.000242 (J)			0.00606	
3/12/2026					<0.0005			0.0138

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0003 (J)	<0.0005		
8/31/2016		<0.0005	<0.0005	<0.0005				
10/25/2016							0.0004 (J)	
11/30/2016		<0.0005	<0.0005	<0.0005	0.0004 (J)	<0.0005	0.0003 (J)	
2/15/2017					0.0004 (J)	<0.0005	<0.0005	
2/16/2017		<0.0005	<0.0005	<0.0005				
5/31/2017					0.0005 (J)	0.0001 (J)	0.0002 (J)	
6/1/2017	0.0001 (J)							
6/2/2017		<0.0005	<0.0005	<0.0005				
8/2/2017	0.0003 (J)							
8/15/2017					0.0005 (J)		0.0002 (J)	
8/16/2017						0.0002 (J)		
8/17/2017	0.0002 (J)	<0.0005	<0.0005	<0.0005				
4/4/2018	<0.0005							
5/8/2018	0.00025 (J)							
6/19/2018					0.00065 (J)	<0.0005	0.00032 (J)	
6/20/2018	0.00021 (J)	<0.0005	<0.0005					
6/21/2018				<0.0005				
9/25/2018					0.00066 (J)	5E-05 (J)		
9/26/2018							0.00024 (J)	
9/27/2018	0.00031 (J)	<0.0005	<0.0005	7.4E-05 (J)				
11/6/2018	0.00077 (J)			0.00012 (J)		9.7E-05 (J)	0.00026 (J)	
11/7/2018		5.4E-05 (J)	<0.0005		0.00058 (J)			
3/6/2019			<0.0005					
8/26/2019						0.0001 (J)		
8/27/2019	0.00032 (J)				0.0009 (J)		0.00018 (J)	
8/28/2019		<0.0005	<0.0005	<0.0005				
10/15/2019	0.00035 (J)				0.00079 (J)	<0.0005		
10/16/2019		<0.0005					0.00014 (J)	
10/17/2019			<0.0005	7.8E-05 (J)				
3/27/2020					<0.005	<0.0005	<0.0005	
3/28/2020	<0.0005	<0.0005	<0.0005	<0.0005				
10/12/2020					0.001 (J)			
10/13/2020	<0.0005					<0.0005	<0.0005	
10/14/2020			<0.0005	<0.0005				
10/15/2020		<0.0005						<0.0025
1/4/2021		<0.0005						
3/2/2021					<0.005	<0.0005		
3/3/2021							<0.0005	
3/4/2021	<0.0005	<0.0005	<0.0005	<0.0005				<0.0025
9/13/2021					0.0011	<0.0005		
9/14/2021	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005	<0.0025
3/1/2022		<0.0005	<0.0005					<0.0025
3/2/2022				<0.0005				
3/3/2022	0.00025				0.0012 (J)	<0.0005	<0.0005	
9/20/2022			<0.0005					<0.0025
9/21/2022	<0.0005	<0.0005		<0.0005	0.0011 (J)	<0.0005	0.00029 (J)	
2/28/2023					0.00135 (J)		0.000279 (J)	
3/1/2023	<0.0005							
3/2/2023		<0.0005	<0.0005	<0.0005		<0.0005		<0.0025
9/12/2023		<0.0005			0.00137	<0.0005		
9/13/2023	<0.0005			<0.0005			0.000249 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/14/2023			<0.0005					<0.0025
3/19/2024					0.00145		<0.0005	
3/20/2024	0.000208 (J)					<0.0005		
3/21/2024		<0.0005	<0.0005	<0.0005				<0.0025
9/10/2024	0.000321 (J)				0.00137		<0.0005	
9/11/2024		<0.0005		<0.0005		<0.0005		<0.0025
9/12/2024			<0.0005					
3/17/2025					0.00148	<0.0005		
3/18/2025							0.000228 (J)	<0.0025
3/19/2025		<0.0005	<0.0005	<0.0005				
3/20/2025	0.000323 (J)							
9/9/2025		<0.0005	<0.0005		0.00155	<0.0005		
9/10/2025	<0.0005							<0.0025
9/11/2025				<0.0005			<0.0005	
3/10/2026	<0.0005	<0.0005	<0.0005			<0.0005	<0.0005	<0.0025
3/11/2026				<0.0005	0.00131			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.0325 (J)				0.0972 (J)			
11/30/2016	0.0334 (J)				0.0964			
2/15/2017	0.254				0.398			
5/31/2017		0.161	0.0521					
6/1/2017	0.0564				0.0776			
6/2/2017				0.0495				
8/2/2017		0.158	0.0392 (J)	0.0333 (J)				
8/15/2017			0.0448					
8/16/2017	0.0435	0.148						
8/17/2017				0.0593	0.0853			
4/4/2018			0.046	0.065				
4/5/2018		0.13						
5/8/2018			0.048	0.062				
5/9/2018		0.12						
6/19/2018	0.04 (J)	0.13	0.04	0.064				
6/20/2018					0.079			
9/25/2018			0.043					
9/26/2018	0.038 (J)	0.1		0.06	0.072			
11/6/2018			0.046					
11/7/2018	0.037 (J)	0.1		0.062 (J)	0.074			
3/25/2019	0.038 (J)	0.091	0.03 (J)	0.057	0.067			
10/15/2019				0.046				
10/16/2019	0.036 (J)	0.085	0.032 (J)		0.051			
11/7/2019						0.27	0.84	1.1
11/18/2019						0.29 (J)		
11/19/2019							0.83	1.3
12/4/2019							0.68	0.81
12/5/2019						0.23		
12/17/2019							0.57	
12/18/2019						0.23		0.77
1/8/2020							0.73	0.9
1/9/2020						0.2		
1/21/2020						0.24 (J)	0.75	0.94
2/4/2020						0.24 (J)	0.79 (J)	0.96 (J)
2/13/2020						0.22	0.74	0.88
3/26/2020	0.064 (J)							
3/27/2020		0.17 (J)	0.058 (J)	0.076 (J)	0.088 (J)	0.24 (J)	0.96	0.94
10/12/2020			<2.5			0.24 (J)		
10/13/2020	<2.5	<2.5		<2.5	<0.5		0.73	1.1
3/2/2021				<2.5				
3/3/2021	<2.5	<2.5	<2.5		<0.5	0.21 (J)	0.79 (J)	0.91 (J)
9/14/2021	0.079 (J)	0.093 (J)	0.06 (J)	0.068 (J)	0.071 (J)	0.2 (J)	1.2	0.91 (J)
3/1/2022							0.41 (J)	0.87 (J)
3/2/2022	0.048 (J)	0.086	0.038 (J)	0.054		0.23 (J)		
3/3/2022					0.057			
9/20/2022						0.18 (J)	0.77	0.9
9/21/2022	0.35 (J)	0.23 (J)	0.17 (J)	0.14 (J)	0.12 (J)			
2/28/2023						0.185	0.707	0.723
3/1/2023	0.091	0.115	0.0461		0.0669			
3/2/2023				0.0416				
9/12/2023	0.101			0.0393	0.0613			
9/13/2023			0.0783				1.2	1.02

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023		0.102				0.229		
3/19/2024		0.0924				0.185	0.704	
3/20/2024	0.0784		0.0443	0.0531				
3/21/2024					0.0603			0.864
9/10/2024			0.0483					
9/11/2024	0.0753	0.0875		0.035	0.0517	0.172	0.61	0.841
3/18/2025	0.0642		0.0522					
3/19/2025						0.175	0.684	0.751
3/20/2025		0.0922		0.0644	0.0594			
9/9/2025	0.0522			0.0726		0.19	0.838	0.885
9/10/2025		0.091	0.0854		0.054			
3/10/2026	0.0393					0.227		
3/11/2026		0.0843	0.0334	0.0547			0.272	
3/12/2026					0.0488			0.855

Time Series

Constituent: Boron (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					1.18	0.726		
8/31/2016		0.56	0.632	0.863				
10/25/2016							1.73	
11/30/2016		0.529	0.637	0.804	1.3	0.565	2.12	
2/15/2017					1.33	0.647	2.14	
2/16/2017		0.539	0.698	0.815				
5/31/2017					1.38	0.503	2.24	
6/1/2017	0.0608							
6/2/2017		0.555	0.674	0.891				
8/2/2017	0.137							
8/15/2017					1.14		2.1	
8/16/2017						0.539		
8/17/2017	0.128	0.516	0.7	0.922				
4/4/2018	0.1							
5/8/2018	0.074							
6/19/2018					1.2	0.76	1.7	
6/20/2018	0.045	0.51	0.69					
6/21/2018				0.99				
9/25/2018					1	0.61		
9/26/2018							1.3	
9/27/2018	0.06	0.47	0.62	0.88				
11/6/2018	0.06			1.1		0.75	1.8	
11/7/2018		0.51	0.86		1.4			
3/6/2019			1.5					
3/24/2019		0.44	1.1	1.2	1	0.95	1.4	
3/25/2019	0.058							
10/15/2019	0.068				1.1	1		
10/16/2019		0.49					1.6	
10/17/2019			1.3	1.1				
11/20/2019		0.53		1.3				
11/21/2019						1	1.5	
3/27/2020					1.5	1.3	1.8	
3/28/2020	0.067 (J)	0.28 (J)	0.95	0.79				
6/16/2020			2	1.7				2.1
10/12/2020					1.3			
10/13/2020	<0.5					1.1	1.8	
10/14/2020			1.5	1.8		1.2		
10/15/2020		0.61						2.1
1/4/2021		0.99						
3/2/2021					1.4 (J)	1.4 (J)		
3/3/2021							1.7 (J)	
3/4/2021	0.11 (J)	0.4 (J)	1.4 (J)	1.6 (J)				2.2 (J)
7/1/2021						0.26 (J)		
9/13/2021					1.4	1.2		
9/14/2021	0.07 (J)	0.95 (J)	1.1	1.5			2.1	2
3/1/2022		0.75 (J)	1.7					1.6 (J)
3/2/2022				1.3				
3/3/2022	0.053				1.2	0.89 (J)	1.4	
9/20/2022			1.1					1.7
9/21/2022	0.19 (J)	0.61		1.3	1.3	1	1.8	
2/28/2023					1.23		1.78	
3/1/2023	0.108							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/2/2023		0.511	0.961	1.25		0.738		1.82
9/12/2023		0.42			1.42	0.657		
9/13/2023	0.047			1.21			1.97	
9/14/2023			0.807					1.61
3/19/2024					1.33		1.73	
3/20/2024	0.116					0.474		
3/21/2024		0.491	0.772	1.05				1.84
9/10/2024	0.131				1.31		1.65	
9/11/2024		0.463		0.888		0.415		1.52
9/12/2024			0.745					
3/17/2025					1.38	0.341		
3/18/2025							1.64	1.44
3/19/2025		0.607	0.822	0.911				
3/20/2025	0.0876							
9/9/2025		0.669	0.799		1.32	0.776		
9/10/2025	0.0612							1.34
9/11/2025				0.906			2.21	
3/10/2026	0.0411	1.06	1.15			0.81	1.72	1.25
3/11/2026				0.88	1.31			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.001				<0.001			
11/30/2016	<0.001				<0.001			
2/15/2017	<0.001				<0.001			
5/31/2017		<0.001	<0.001					
6/1/2017	<0.001				<0.001			
6/2/2017				<0.001				
8/2/2017		<0.001	<0.001	<0.001				
8/15/2017			<0.001					
8/16/2017	<0.001	<0.001						
8/17/2017				<0.001	<0.001			
4/4/2018			<0.001	<0.001				
4/5/2018		<0.001						
5/8/2018			<0.001	<0.001				
5/9/2018		<0.001						
6/19/2018	<0.001	<0.001	<0.001	<0.001				
6/20/2018					<0.001			
9/25/2018			0.0002 (J)					
9/26/2018	<0.001	<0.001		<0.001	<0.001			
11/6/2018			<0.001					
11/7/2018	<0.001	<0.001		<0.001	<0.001			
8/27/2019	<0.001			<0.001	<0.001			
8/28/2019		<0.001	<0.001					
10/15/2019				<0.001				
10/16/2019	<0.001	<0.001	<0.001		<0.001			
11/7/2019						<0.001	<0.001	0.00034 (J)
11/18/2019						<0.001		
11/19/2019							<0.001	<0.001
12/4/2019							<0.001	<0.001
12/5/2019						<0.001		
12/17/2019							<0.001	
12/18/2019						<0.001		<0.001
1/8/2020							<0.001	<0.001
1/9/2020						<0.001		
1/21/2020						<0.001	<0.001	<0.001
2/4/2020						<0.001	<0.001	<0.001
2/13/2020						<0.001	<0.001	<0.001
3/26/2020	<0.001							
3/27/2020		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/14/2021	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/1/2022							<0.001	<0.001
3/2/2022	<0.001	<0.001	<0.001	<0.001		<0.001		
3/3/2022					<0.001			
9/20/2022						0.00078 (J)	0.0083 (O)	0.0043
9/21/2022	<0.001	<0.001	<0.001	<0.001	<0.001			
2/28/2023						<0.001	<0.001	<0.001
3/1/2023	<0.001	<0.001	<0.001		<0.001			
3/2/2023				<0.001				
9/12/2023	<0.001			<0.001	<0.001			
9/13/2023			<0.001				<0.001	<0.001
9/14/2023		<0.001				<0.001		
3/19/2024		<0.001				<0.001	<0.001	
3/20/2024	<0.001		<0.001	<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/21/2024					<0.001			<0.001
9/10/2024			<0.001					
9/11/2024	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
3/18/2025	<0.001		<0.001					
3/19/2025						<0.001	<0.001	<0.001
3/20/2025		<0.001		<0.001	<0.001			
9/9/2025	<0.001			<0.001		<0.001	<0.001	<0.001
9/10/2025		<0.001	<0.001		<0.001			
3/10/2026	<0.001					<0.001		
3/11/2026		<0.001	<0.001	<0.001			<0.001	
3/12/2026					<0.001			<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.001	<0.001		
8/31/2016		<0.001	<0.001	<0.001				
10/25/2016							<0.001	
11/30/2016		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2/15/2017					<0.001	<0.001	<0.001	
2/16/2017		<0.001	<0.001	<0.001				
5/31/2017					<0.001	<0.001	<0.001	
6/1/2017	<0.001							
6/2/2017		<0.001	<0.001	<0.001				
8/2/2017	<0.001							
8/15/2017					<0.001		<0.001	
8/16/2017						<0.001		
8/17/2017	<0.001	<0.001	<0.001	<0.001				
4/4/2018	<0.001							
5/8/2018	<0.001							
6/19/2018					<0.001	<0.001	<0.001	
6/20/2018	<0.001	<0.001	<0.001					
6/21/2018				<0.001				
9/25/2018					<0.001	<0.001		
9/26/2018							<0.001	
9/27/2018	<0.001	<0.001	<0.001	<0.001				
11/6/2018	<0.001			<0.001		<0.001	<0.001	
11/7/2018		<0.001	<0.001		<0.001			
3/6/2019			<0.001					
8/26/2019						<0.001		
8/27/2019	<0.001				<0.001		<0.001	
8/28/2019		<0.001	<0.001	<0.001				
10/15/2019	<0.001				<0.001	<0.001		
10/16/2019		<0.001					<0.001	
10/17/2019			<0.001	<0.001				
3/27/2020					<0.001	<0.001	<0.001	
3/28/2020	<0.001	<0.001	<0.001	<0.001				
9/13/2021					<0.001	<0.001		
9/14/2021	<0.001	<0.001	<0.001	<0.001			<0.001	<0.001
3/1/2022		<0.001	<0.001					<0.001
3/2/2022				<0.001				
3/3/2022	0.00043				<0.001	<0.001	<0.001	
9/20/2022			<0.001					<0.001
9/21/2022	<0.001	<0.001		0.0002 (J)	<0.001	<0.001	<0.001	
2/28/2023					<0.001		<0.001	
3/1/2023	<0.001							
3/2/2023		<0.001	<0.001	<0.001		<0.001		<0.001
9/12/2023		<0.001			<0.001	<0.001		
9/13/2023	<0.001			<0.001			<0.001	
9/14/2023			<0.001					<0.001
3/19/2024					<0.001		<0.001	
3/20/2024	<0.001					<0.001		
3/21/2024		<0.001	<0.001	<0.001				<0.001
9/10/2024	<0.001				<0.001		<0.001	
9/11/2024		<0.001		<0.001		<0.001		<0.001
9/12/2024			<0.001					
3/17/2025					<0.001	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/18/2025							<0.001	<0.001
3/19/2025		<0.001	<0.001	<0.001				
3/20/2025	<0.001							
9/9/2025		<0.001	<0.001		<0.001	<0.001		
9/10/2025	<0.001							<0.001
9/11/2025				<0.001			<0.001	
3/10/2026	<0.001	<0.001	<0.001			<0.001	<0.001	<0.001
3/11/2026				<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	7.3				4.02			
11/30/2016	10.8				4.87			
2/15/2017	14.3				6.61			
5/31/2017		5.9	18.6					
6/1/2017	12.7 (J)				6.42			
6/2/2017				2.77				
8/2/2017		4.69	18.5	1.27				
8/15/2017			4.09					
8/16/2017	8.7	5.25						
8/17/2017				5.53	5.62			
4/4/2018			<25	6.5				
4/5/2018		5						
5/8/2018			18.4 (J)	6.7				
5/9/2018		4.7						
6/19/2018	11.6 (J)	4.8	4.3	7.4				
6/20/2018					5.7			
6/28/2018	13							
9/25/2018			6.2					
9/26/2018	12.8 (J)	4.6		8.5 (J)	5.3			
11/6/2018			1.8					
11/7/2018	11.9	4.6		9.8	5.3			
3/25/2019	12.6 (J)	4.7	2.5	7.8	5.7			
10/15/2019				6.7				
10/16/2019	13.6	4.9	2.2		4.8			
11/7/2019						46.2	158	163
11/18/2019						41.8		
11/19/2019							152	169
12/4/2019							142	140
12/5/2019						40.5		
12/17/2019							136	
12/18/2019						42		145
1/8/2020							147	157
1/9/2020						37.1		
1/21/2020						40.1	167	152
2/4/2020						36.2	142	139
2/13/2020						38.9	148	146
3/26/2020	10.1							
3/27/2020		4.9	3.3	5.9	5.4	23.2	122	113
10/12/2020			2.8			19.1		
10/13/2020	9.8	3.8		0.83	5.7		125	128
3/2/2021				1.4				
3/3/2021	14	4	2.1		11.2	26	123	110
9/14/2021	9.6	4.2	14	6.7	6.5	18.8	93.6	61.1
3/1/2022							35.5	99.8
3/2/2022	8.2	4.1	6.8	7.2		22.3		
3/3/2022					5.4			
9/20/2022						20	150	100
9/21/2022	9.2	4.3	7.6	0.83	4.6			
2/28/2023						22.5	150	104
3/1/2023	7.87	5.26	6.53		4.74			
3/2/2023				1.41				
9/12/2023	10.1			0.953	4.48			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/13/2023			20.7				202	108
9/14/2023		6.64				21.1		
3/19/2024		4.73				19.7	138	
3/20/2024	11.3		9.1	4.88				
3/21/2024					5.32			102
9/10/2024			6.36					
9/11/2024	9.6	5.36		0.928	5.49	15.3	127	87.8
3/18/2025	9.39		3.66					
3/19/2025						17.9	139	92.4
3/20/2025		6.94		4.54	6.41			
9/9/2025	7.83			6.52		15.4	143	86.6
9/10/2025		6.85	20.7		3.98			
3/10/2026	7.9					21.7		
3/11/2026		5.45	4.74	5.47			39.5	
3/12/2026					4.69			93.2

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					7.05	42.8		
8/31/2016		65	82.8	119				
10/25/2016							69.4	
11/30/2016		71.7	68.7	103	8.69	33.2	83.9	
2/15/2017					8.34	56.1	96.3	
2/16/2017		74	94.8	114				
5/31/2017					8.85	73.6	122	
6/1/2017	3.65							
6/2/2017		120	92.5	179				
8/2/2017	12.4							
8/15/2017					8.05		117	
8/16/2017						99.6		
8/17/2017	8.17	100	126	186				
4/4/2018	6.8							
5/8/2018	5.7							
6/19/2018					8.3	285	136	
6/20/2018	4.3	72.8	121					
6/21/2018				179				
6/28/2018					8.9	294	138	
9/25/2018					6.8	283		
9/26/2018							148	
9/27/2018	16.4 (J)	46.6	95.1	193				
11/6/2018	39.5			219		297	24.7	
11/7/2018		41.8	364		8.5			
3/6/2019			341					
3/24/2019		20.9 (J)	277	243	7.4	338	136	
3/25/2019	20.8 (J)							
10/15/2019	15.5				7.9	321		
10/16/2019		55.2					118	
10/17/2019			309	260				
11/20/2019		55.8		308				
11/21/2019						305	125	
3/27/2020					8.3	286	222	
3/28/2020	15.5	25.8	286	286				
4/23/2020			266					266
6/16/2020			234	254				245
10/12/2020					6.1			
10/13/2020	12.5					40.9	86.4	
10/14/2020			219 (D)	216		177		
10/15/2020		69.1						194
1/4/2021		107						
3/2/2021					6.5	205		
3/3/2021							143	
3/4/2021	15.1	23.4	233	244				257
7/1/2021						231		
9/13/2021					6	165		
9/14/2021	12.5	13.9	299	225			190	273
3/1/2022		48.4	131					303
3/2/2022				198				
3/3/2022	8				4.6	224	84	
6/28/2022			73.5					225
9/20/2022			47					240

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/21/2022	7.8	28		190	4.7	74	110	
2/28/2023					5.17		94.2	
3/1/2023	7.75							
3/2/2023		25.9	36.1	194		48		234
9/12/2023		61.5			4.98	55.3		
9/13/2023	4.93			136			84.6	
9/14/2023			83.1					158
3/19/2024					4.99		63.2	
3/20/2024	10.1					40.6		
3/21/2024		75.5	66.6	89.1				182
9/10/2024	9.06				4.67		57.2	
9/11/2024		78.5		72.5		41.3		162
9/12/2024			134					
3/17/2025					4.62	171		
3/18/2025							72.2	158
3/19/2025		196	198	98.9				
3/20/2025	6.11							
9/9/2025		245	240		4.43	178		
9/10/2025	4.36							163
9/11/2025				132			60.7	
3/10/2026	4.03	240	245			206	46.2	182
3/11/2026				168	4.55			

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	9.7				26			
11/30/2016	19				27			
2/15/2017	21				30			
5/31/2017		39	98					
6/1/2017	12				27			
6/2/2017				11				
8/2/2017		42	57	3.2				
8/15/2017			15					
8/16/2017	14	41						
8/17/2017				12	32			
4/4/2018			69	13.4				
4/5/2018		40.2						
5/8/2018			72.3	13.2				
5/9/2018		40.6						
6/19/2018	24.4	37.7	17.3	13.7				
6/20/2018					30			
9/25/2018			31.3					
9/26/2018	23.4	33.4		18.5	28.4			
11/6/2018			9.8					
11/7/2018	21.8	30.7		20.2	25.1			
3/25/2019	19.4	33.5	12.9	19.7	21.8			
10/15/2019				17.1				
10/16/2019	21.4	33.1	12.2		20			
11/7/2019						2360	6170	7880
11/18/2019						6970		
11/19/2019							5650	8130
12/4/2019							6100	7410
12/5/2019						2130		
12/17/2019							5660	
12/18/2019						2090		7170
1/8/2020							5070	6480
1/9/2020						1750		
1/21/2020						1630	5010	6000
2/4/2020						1760	5030	5700
2/13/2020						1850	6140	7060
3/26/2020	23							
3/27/2020		32.9	14.5	14.1	23.6	1450	6870	7110
10/12/2020			13.9			1340		
10/13/2020	13.5	25.7		3.8	23.3		5260	5980
3/2/2021				4.2				
3/3/2021	13.6	20.5	9.4		27.6	1230	5170	5500
9/14/2021	16.7	21.8	62.8	13.6	30	1020	7250	5100
3/1/2022							1870	4900
3/2/2022	13.4	20.6	28.4	14.3		1420		
3/3/2022					26.5			
9/20/2022						1200	6200	5700
9/21/2022	17	23	32	3.3	17			
2/28/2023						1250	5760	7930
3/1/2023	14.9	21.8	17.7		14.2			
3/2/2023				4.88				
9/12/2023	10.7			3.49	13.3			
9/13/2023			98.5				8600	5250

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023		21.1				1190		
3/19/2024		20				1100	5460	
3/20/2024	10.8		32.1	13.5				
3/21/2024					11.5			4980
9/10/2024			11.2					
9/11/2024	9.34	16.4		3.34	9.65	856	4880	4420
3/18/2025	11.9		4.51					
3/19/2025						992	5330	4320
3/20/2025		13.1		10.6	8.86			
9/9/2025	14.4			14.2		835	5800	4040
9/10/2025		15.4	82.5		5.99			
3/10/2026	16.6					1230		
3/11/2026		13.7	7.98	12.2			1390	
3/12/2026					5.87			4640

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					800	450		
8/31/2016		1800	2200	2600				
10/25/2016							1300	
11/30/2016		1100	2100	2800	760	310	400	
2/15/2017					740	490	2000	
2/16/2017		2100	2500	3100				
5/31/2017					740	820	2500	
6/1/2017	22							
6/2/2017		3100	2500	4600				
8/2/2017	230							
8/15/2017					750		2500	
8/16/2017						1500		
8/17/2017	210	2600	2700	4600				
4/4/2018	156							
5/8/2018	140							
6/19/2018					760	5180	3050	
6/20/2018	27.5	1800	3100					
6/21/2018				3920				
9/25/2018					752	7220		
9/26/2018							3965 (D)	
9/27/2018	101	1300	2510	5660				
11/6/2018	107			6520		6020	2230	
11/7/2018		1180	8860		665			
3/6/2019			11700					
3/24/2019		717	6470	8720	744	7400	3960	
3/25/2019	78.5							
10/15/2019	46				744	9050		
10/16/2019		1390					4260	
10/17/2019			9930	8210				
11/20/2019		1480		9810				
11/21/2019						8330	3890	
3/27/2020					675	7680	4770	
3/28/2020	71.4	693	9190	9070				
4/23/2020			7390					7500
6/16/2020			7760	7580				7780
10/12/2020					552			
10/13/2020	54.4					6230	3980	
10/14/2020			6780 (D)	8170		6230		
10/15/2020		1660						<1
1/4/2021		2460						
3/2/2021					459	5680		
3/3/2021							3920	
3/4/2021	69.6	652	6310	7540				8280
7/1/2021						5960		
9/13/2021					433	5010		
9/14/2021	28.5	3940	5360	6300			4090	7610
3/1/2022		1680	4150					6750
3/2/2022				5630				
3/3/2022	12.2				394	5040	3540	
6/28/2022			3520					9640
9/20/2022			2800					7400
9/21/2022	47	1100		6400	400	3300	3300	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
2/28/2023					518		2770	
3/1/2023	45.6							
3/2/2023		853	1470	5450		1810		6860
9/12/2023		1330			326	1180		
9/13/2023	10.4			3690			2660	
9/14/2023			2220					5380
3/19/2024					361		3130	
3/20/2024	82.3					1390		
3/21/2024		1830	2120	3240				5440
9/10/2024	100				297		3080	
9/11/2024		1800		2440		1320		4570
9/12/2024			3240					
3/17/2025					311	3240		
3/18/2025							2900	4080
3/19/2025		3790	4590	2720				
3/20/2025	45.3							
9/9/2025		4910	5860		281	4230		
9/10/2025	21.5							4150
9/11/2025				3210			2550	
3/10/2026	10	6240	6820			5360	2450	4370
3/11/2026				3760	285			

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.01				<0.01			
11/30/2016	<0.01				0.001 (J)			
2/15/2017	<0.01				<0.01			
5/31/2017		<0.01	<0.01					
6/1/2017	<0.01				0.0004 (J)			
6/2/2017				0.0019 (J)				
8/2/2017		<0.01	<0.01	0.0017 (J)				
8/15/2017			0.0006 (J)					
8/16/2017	<0.01	<0.01						
8/17/2017				0.0027 (J)	0.0005 (J)			
4/4/2018			<0.01	<0.01				
4/5/2018		<0.01						
5/8/2018			<0.01	0.0029 (J)				
5/9/2018		<0.01						
6/19/2018	<0.01	<0.01	<0.01	0.002 (J)				
6/20/2018					<0.01			
9/25/2018			<0.01					
9/26/2018	<0.01	<0.01		0.003 (J)	<0.01			
11/6/2018			<0.01					
11/7/2018	<0.01	<0.01		<0.01	<0.01			
3/25/2019			<0.01					
8/27/2019	0.00079 (J)			0.0026 (J)	0.00043 (J)			
8/28/2019		0.0035 (J)	0.00053 (J)					
10/15/2019				0.0026 (J)				
10/16/2019	<0.01	<0.01	0.00072 (J)		<0.01			
11/7/2019						0.0038 (J)	0.005 (J)	0.0083 (J)
11/18/2019						0.0046 (J)		
11/19/2019							0.0059 (J)	0.0096 (J)
12/4/2019							0.0073 (J)	0.0099 (J)
12/5/2019						0.0046 (J)		
12/17/2019							0.009 (J)	
12/18/2019						0.0045 (J)		0.011 (J)
1/8/2020							0.0077 (J)	0.0092 (J)
1/9/2020						0.004 (J)		
1/21/2020						0.0036 (J)	0.007 (J)	0.009 (J)
2/4/2020						<0.01	0.0057 (J)	0.0078 (J)
2/13/2020						0.0036 (J)	0.0063 (J)	0.0091 (J)
3/26/2020	<0.01							
3/27/2020		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0095 (J)
9/14/2021	<0.01	0.0056	<0.01	0.0027 (J)	<0.01	<0.01	<0.01	<0.05
3/1/2022							<0.01	<0.05
3/2/2022	<0.01	<0.01	0.00094 (J)	0.0029		<0.01		
3/3/2022					<0.01			
9/20/2022						0.0021 (J)	<0.01	<0.05
9/21/2022	0.0014 (J)	<0.01	0.0015 (J)	0.002 (J)	0.0015 (J)			
2/28/2023						<0.01	0.00575 (J)	0.00573 (J)
3/1/2023	<0.01	<0.01	<0.01		<0.01			
3/2/2023				<0.01				
9/12/2023	<0.01			<0.01	<0.01			
9/13/2023			<0.01				0.00386 (J)	0.00673 (J)
9/14/2023		<0.01				<0.01		
3/19/2024		<0.01				<0.01	<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/20/2024	<0.01		<0.01	<0.01				
3/21/2024					<0.01			<0.05
9/10/2024			<0.01					
9/11/2024	<0.01	<0.01		<0.01	<0.01	<0.01	0.00601 (J)	0.00551 (J)
3/18/2025	<0.01		<0.01					
3/19/2025						<0.01	0.00559 (J)	0.00559 (J)
3/20/2025		<0.01		<0.01	<0.01			
9/9/2025	<0.01			<0.01		<0.01	0.00562 (J)	0.00615 (J)
9/10/2025		<0.01	<0.01		<0.01			
3/10/2026	<0.01					<0.01		
3/11/2026		<0.01	<0.01	<0.01			<0.01	
3/12/2026					<0.01			<0.05

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0054 (J)	0.0026 (J)		
8/31/2016		0.0013 (J)	0.001 (J)	0.0022 (J)				
10/25/2016							0.016	
11/30/2016		0.0012 (J)	<0.01	<0.01	0.0073 (J)	0.0016 (J)	0.0151 (J)	
2/15/2017					0.0045 (J)	0.0018 (J)	0.0137	
2/16/2017		0.0012 (J)	0.0011 (J)	0.0028 (J)				
5/31/2017					0.0052 (J)	0.0019 (J)	0.0109	
6/1/2017	0.0008 (J)							
6/2/2017		<0.01	<0.01	0.0023 (J)				
8/2/2017	0.0012 (J)							
8/15/2017					0.005 (J)		0.0117	
8/16/2017						0.0019 (J)		
8/17/2017	0.0013 (J)	0.0007 (J)	0.0007 (J)	0.0022 (J)				
4/4/2018	<0.01							
5/8/2018	<0.01							
6/19/2018					0.0047 (J)	<0.01	0.013 (J)	
6/20/2018	<0.01	<0.01	<0.01					
6/21/2018				<0.01				
9/25/2018					<0.02	<0.01		
9/26/2018							0.0092 (J)	
9/27/2018	<0.01	<0.01	<0.01	0.0024 (J)				
11/6/2018	0.0017 (J)			0.002 (J)		<0.01	<0.02	
11/7/2018		<0.01	<0.01		<0.02			
3/6/2019			<0.01					
8/26/2019						0.00071 (J)		
8/27/2019	0.0018 (J)				0.0056 (J)		0.0066 (J)	
8/28/2019		0.00047 (J)	0.00085 (J)	0.0024 (J)				
10/15/2019	0.0012 (J)				0.0057 (J)	0.00076 (J)		
10/16/2019		0.00057 (J)					0.0063 (J)	
10/17/2019			0.0015 (J)	0.0019 (J)				
3/27/2020					<0.02	<0.01	<0.02	
3/28/2020	<0.01	<0.01	<0.01	<0.01				
9/13/2021					<0.02	<0.01		
9/14/2021	<0.01	<0.01	<0.01	<0.01			<0.02	<0.05
3/1/2022		<0.01	<0.01					<0.05
3/2/2022				<0.01				
3/3/2022	0.00085 (J)				<0.02	<0.01	<0.02	
9/20/2022			<0.01					<0.05
9/21/2022	0.0015 (J)	0.0016 (J)		0.0027 (J)	0.0077 (J)	0.0015 (J)	0.0063 (J)	
2/28/2023					0.00663 (J)		0.00623 (J)	
3/1/2023	<0.01							
3/2/2023		<0.01	<0.01	<0.01		<0.01		<0.05
9/12/2023		<0.01			0.00703 (J)	<0.01		
9/13/2023	<0.01			<0.01			0.00608 (J)	
9/14/2023			<0.01					<0.05
3/19/2024					0.00689 (J)		0.00466 (J)	
3/20/2024	<0.01					<0.01		
3/21/2024		<0.01	<0.01	<0.01				<0.05
9/10/2024	<0.01				0.00672 (J)		0.00441 (J)	
9/11/2024		<0.01		<0.01		<0.01		<0.05
9/12/2024			<0.01					
3/17/2025					0.00739 (J)	<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/18/2025							0.00481 (J)	<0.05
3/19/2025		<0.01	<0.01	<0.01				
3/20/2025	<0.01							
9/9/2025		<0.01	<0.01		0.00736 (J)	<0.01		
9/10/2025	0.00448 (J)							<0.05
9/11/2025				<0.01			0.00513 (J)	
3/10/2026	<0.01	<0.01	<0.01			<0.01	0.00501 (J)	<0.05
3/11/2026				<0.01	0.00748 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.001				<0.001			
11/30/2016	<0.001				<0.001			
2/15/2017	<0.001				<0.001			
5/31/2017		0.0005 (J)	<0.001					
6/1/2017	<0.001				<0.001			
6/2/2017				<0.001				
8/2/2017		0.0005 (J)	0.0006 (J)	<0.001				
8/15/2017			0.0004 (J)					
8/16/2017	<0.001	0.0005 (J)						
8/17/2017				<0.001	0.0004 (J)			
4/4/2018			<0.001	<0.001				
4/5/2018		<0.001						
5/8/2018			<0.001	<0.001				
5/9/2018		<0.001						
6/19/2018	<0.001	<0.001	<0.001	<0.001				
6/20/2018					<0.001			
9/25/2018			<0.001					
9/26/2018	<0.001	<0.001		<0.001	<0.001			
11/6/2018			<0.001					
11/7/2018	<0.001	<0.001		<0.001	<0.001			
8/27/2019	<0.001			<0.001	0.0003 (J)			
8/28/2019		0.00042 (J)	<0.001					
10/15/2019				<0.001				
10/16/2019	<0.001	0.00037 (J)	<0.001		<0.001			
11/7/2019						<0.001	<0.001	0.026
11/18/2019						<0.001		
11/19/2019							<0.001	0.022 (J)
12/4/2019							<0.001	0.022
12/5/2019						<0.001		
12/17/2019							<0.001	
12/18/2019						<0.001		0.031
1/8/2020							<0.001	0.035
1/9/2020						<0.001		
1/21/2020						<0.001	<0.001	0.031
2/4/2020						<0.001	<0.001	0.031 (J)
2/13/2020						<0.001	<0.001	0.031
3/26/2020	<0.001							
3/27/2020		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.036
10/12/2020			<0.001			<0.001		
10/13/2020	<0.001	<0.001		<0.001	<0.001		<0.001	0.032
3/2/2021				<0.001				
3/3/2021	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	0.033
9/14/2021	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.03
3/1/2022							<0.001	0.031
3/2/2022	<0.001	0.00035 (J)	0.00029 (J)	7.7E-05 (J)		<0.001		
3/3/2022					0.00035 (J)			
9/20/2022						<0.001	<0.001	0.03
9/21/2022	<0.001	0.00032 (J)	<0.001	<0.001	0.00024 (J)			
2/28/2023						<0.001	<0.001	0.0252 (J)
3/1/2023	<0.001	0.000372 (J)	<0.001		<0.001			
3/2/2023				<0.001				
9/12/2023	<0.001			<0.001	0.000301 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/13/2023			<0.001				<0.001	0.0241
9/14/2023		<0.001				<0.001		
3/19/2024		0.000301 (J)				<0.001	<0.001	
3/20/2024	<0.001		<0.001	<0.001				
3/21/2024					<0.001			0.0222
9/10/2024			<0.001					
9/11/2024	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	0.0181
3/18/2025	<0.001		<0.001					
3/19/2025						<0.001	<0.001	0.0204
3/20/2025		<0.001		<0.001	<0.001			
9/9/2025	<0.001			<0.001		<0.001	<0.001	0.0234
9/10/2025		<0.001	<0.001		<0.001			
3/10/2026	<0.001					<0.001		
3/11/2026		<0.001	<0.001	<0.001			<0.001	
3/12/2026					<0.001			0.0233

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.001	0.0006 (J)		
8/31/2016		<0.001	<0.001	<0.001				
10/25/2016							<0.001	
11/30/2016		<0.001	0.0009 (J)	0.0011 (J)	<0.001	<0.001	0.0007 (J)	
2/15/2017					<0.001	<0.001	<0.001	
2/16/2017		<0.001	<0.001	<0.001				
5/31/2017					0.0005 (J)	<0.001	<0.001	
6/1/2017	<0.001							
6/2/2017		<0.001	<0.001	<0.001				
8/2/2017	<0.001							
8/15/2017					0.0005 (J)		0.0004 (J)	
8/16/2017						<0.001		
8/17/2017	<0.001	<0.001	0.0003 (J)	<0.001				
4/4/2018	<0.001							
5/8/2018	<0.001							
6/19/2018					0.00053 (J)	<0.001	<0.001	
6/20/2018	<0.001	<0.001	<0.001					
6/21/2018				<0.001				
9/25/2018					<0.001	<0.001		
9/26/2018							<0.001	
9/27/2018	<0.001	<0.001	<0.001	<0.001				
11/6/2018	0.0048 (J)			<0.001		<0.001	<0.001	
11/7/2018		<0.001	<0.001		<0.001			
3/6/2019			<0.001					
8/26/2019						<0.001		
8/27/2019	0.0078				0.0007 (J)		<0.001	
8/28/2019		<0.001	<0.001	<0.001				
10/15/2019	0.0085				0.00054 (J)	<0.001		
10/16/2019		<0.001					<0.001	
10/17/2019			<0.001	<0.001				
11/20/2019	0.009							
3/27/2020					<0.001	<0.001	<0.001	
3/28/2020	0.0041 (J)	<0.001	<0.001	<0.001				
10/12/2020					<0.001			
10/13/2020	0.0063					<0.001	<0.001	
10/14/2020			<0.001	<0.001				
10/15/2020		0.0019 (J)						<0.001
1/4/2021		<0.001						
3/2/2021					<0.001	<0.001		
3/3/2021							<0.001	
3/4/2021	0.006	<0.001	<0.001	<0.001				<0.001
9/13/2021					<0.001	<0.001		
9/14/2021	0.0054	<0.001	<0.001	<0.001			<0.001	<0.001
3/1/2022		<0.001	<0.001					<0.001
3/2/2022				<0.001				
3/3/2022	0.0049				<0.001	<0.001	<0.001	
9/20/2022			<0.001					<0.001
9/21/2022	0.0025	0.00026 (J)		0.00031 (J)	0.00042 (J)	<0.001	0.00025 (J)	
2/28/2023					0.00052 (J)		<0.001	
3/1/2023	0.00256 (J)							
3/2/2023		<0.001	<0.001	<0.001		<0.001		<0.001
9/12/2023		<0.001			0.000429 (J)	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/13/2023	0.00341			<0.001			<0.001	
9/14/2023			<0.001					<0.001
3/19/2024					0.000452 (J)		<0.001	
3/20/2024	0.00291					<0.001		
3/21/2024		<0.001	<0.001	<0.001				<0.001
9/10/2024	0.00238				0.000453 (J)		<0.001	
9/11/2024		<0.001		<0.001		<0.001		<0.001
9/12/2024			<0.001					
3/17/2025					0.000481 (J)	<0.001		
3/18/2025							<0.001	<0.001
3/19/2025		<0.001	<0.001	<0.001				
3/20/2025	0.00268							
9/9/2025		<0.001	<0.001		0.000456 (J)	<0.001		
9/10/2025	0.00158							<0.001
9/11/2025				<0.001			<0.001	
3/10/2026	0.0024	<0.001	<0.001			<0.001	<0.001	<0.001
3/11/2026				<0.001	0.000445 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.929				0.977			
11/30/2016	5.64				0.994			
2/15/2017	1.41				1.65			
5/31/2017		1.17	1.2					
6/1/2017	1.51				1.22			
6/2/2017				1.47				
8/2/2017		0.704 (U)	1.26	1.99				
8/15/2017			0.511 (U)					
8/16/2017	1.01 (U)	1.11 (U)						
8/17/2017				2.03	1.71			
4/4/2018			1.04	1.96				
4/5/2018		0.868						
5/8/2018			1.95	1.69				
5/9/2018		0.888						
6/19/2018	1.23	0.483 (U)	0.785 (U)	1.83				
6/20/2018					1.78			
9/25/2018			1.15					
9/26/2018	0.72 (U)	0.73 (U)		0.637 (U)	1.56			
11/6/2018			1.1					
11/7/2018	0.616 (U)	0.429 (U)		0.894 (U)	0.651 (U)			
8/27/2019	1.2 (U)			2.33	1.03 (U)			
8/28/2019		0.679 (U)	0.434 (U)					
10/15/2019				0.979 (U)				
10/16/2019	1.4 (U)	0.422 (U)	0.923 (U)		1.86			
11/7/2019						14.8	17.7	38.2
11/18/2019						13.9		
11/19/2019							18.9	43.1
12/4/2019							18.6	45.1
12/5/2019						14.2		
12/17/2019							21.8	
12/18/2019						17		55.8
1/8/2020							16.9	46.5
1/9/2020						12.3		
1/21/2020						11.7	15.6	37.7
2/4/2020						12.7	22.4	47.9
2/13/2020						18.2	31.1	76.3 (O)
3/26/2020	1.15 (U)							
3/27/2020		0.838 (U)	0.609 (U)	1.84	1.51	10.2	22.8	47.2
10/12/2020			2.7			8.83		
10/13/2020	0.855 (U)	0.56 (U)		3.32	1.71		14.1	30.3
4/6/2021	1.01 (U)	0.474 (U)	1.88	1.74	1.81	9.57	20.4	31.5
9/14/2021	1.06 (U)	0.878 (U)	1.37 (U)	1.15 (U)	2.02	8.31	26.2	34.9
3/1/2022							9.65	27.5
3/2/2022	0.379 (U)	0.476 (U)	0.313 (U)	1.48		9.23		
3/3/2022					1.1 (U)			
9/20/2022						9.35	18.2	30.1
9/21/2022	0.863	0.789	0.797	1.23	1.02			
2/28/2023						7.34	12.4	22.6
3/1/2023	1.18 (U)	0.439 (U)	2.35		2.3			
3/2/2023				10.1				
9/12/2023	3.54			3.88	3.18			
9/13/2023			3.14				27.3	34.9

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023		3.14				4.91		
3/19/2024		2.04				6.07	11.8	
3/20/2024	2.7		3.03	3.27				
3/21/2024					1.25 (U)			23.8
9/10/2024			2.49					
9/11/2024	2.61	6.28		4.32	1.89	9.3	15.5	29.4
3/18/2025	1.25 (U)		1.58 (U)					
3/19/2025						7.26	19.2	26.7
3/20/2025		1.16 (U)		1.32 (U)	1.52			
9/9/2025	2.27			2.57		7.52	20.7	30.8
9/10/2025		0.597 (U)	2.95		3.03			
3/10/2026	4.46			1.26		10.4		
3/11/2026		1.3	1.12 (U)				9.97	
3/12/2026					1.65			30.5

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					1.4	1.31		
8/31/2016		2.39	2.47	5.4				
10/25/2016							2.22	
11/30/2016		1.66	1.6	3.13	4.37	0.438	2.01	
2/15/2017					2.21	0.3	1.56	
2/16/2017		2.71	1.83	3.09				
5/31/2017					2.62	1.77	1.92	
6/1/2017	1.9							
6/2/2017		1.99	2.45	7.56				
8/2/2017	5.01							
8/15/2017					2.69		2.47	
8/16/2017						2.26		
8/17/2017	5.35	1.87	3.33	6.38				
4/4/2018	5.05							
5/8/2018	3.25							
6/19/2018					2.96	5.39	2.82	
6/20/2018	3.53	1.95	2.84					
6/21/2018				5.24				
9/25/2018					2.23	6.22		
9/26/2018							3.15 (D)	
9/27/2018	7.07	0.629 (U)	1.94	6.11				
11/6/2018	11			6.1		5.38	2.95	
11/7/2018		1.41 (U)	8.58		2.14			
8/26/2019						7.68		
8/27/2019	4.4				2.91		5.82	
8/28/2019		1.67	6.86	8.73				
10/15/2019	4.92				3.28	8.7		
10/16/2019		1.92					7.5	
10/17/2019			7.85	7.97				
11/20/2019				9.8				
11/21/2019						7.34	8.89	
3/27/2020					2.33	9.63	9.54	
3/28/2020	4.16	1.44 (U)	11	11.7				
10/12/2020					2.66			
10/13/2020	3.71					7.43	7.75	
10/14/2020			8.97	13.1				
10/15/2020		2.56						6.65
1/4/2021		5.84						
4/6/2021	2.83	1.43 (U)	7.89	9.66	2.2	7.02	7.8	7.33
9/13/2021					2.54	8.38		
9/14/2021	2.69	7.15	8.11	10.3			8.82	6.97
3/1/2022		8.16 (U)	5.83					9.03
3/2/2022				5.66				
3/3/2022	2.51				3.56 (U)	8	9.1	
9/20/2022			1.51					8.2
9/21/2022	1.67	1.42		8.23	1.54	4.52	5.26	
2/28/2023					2.29		5.48	
3/1/2023	5.05							
3/2/2023		2.22	1.79	4.5		8.08		9.42
9/12/2023		4.42			3.43	5.46		
9/13/2023	2.05			10.3			4.44	
9/14/2023			3.61					11.7

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/19/2024					2.79		5.64	
3/20/2024	2.61					2.14		
3/21/2024		2.48	2.73	6.37				4.89
9/10/2024	4.33				4.8		4.29	
9/11/2024		2.55		5.35		3.4		7.95
9/12/2024			5.25					
3/17/2025					3.37	6.6		
3/18/2025							6.41	4.64
3/19/2025		5.29	8.33	4.55				
3/20/2025	3.92							
9/9/2025		7.73	11.8		2.52	8.36		
9/10/2025	2.28							6.24
9/11/2025				6.67			5.59	
3/10/2026	2.57	8.42	11.1			6.97	6.7	4.31
3/11/2026				2.91	2.49			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	0.03 (J)				0.04 (J)			
11/30/2016	0.04 (J)				0.18 (J)			
2/15/2017	0.007 (J)				0.02 (J)			
5/31/2017		0.01 (J)	0.85					
6/1/2017	<0.1				0.005 (J)			
6/2/2017				<0.1				
8/2/2017		0.14 (J)	0.69	0.05 (J)				
8/15/2017			0.29 (J)					
8/16/2017	0.03 (J)	0.13 (J)						
8/17/2017				<0.1	0.04 (J)			
4/4/2018			0.32	<0.1				
4/5/2018		<0.1						
5/8/2018			0.63	<0.1				
5/9/2018		<0.1						
6/19/2018	<0.1	0.065 (J)	0.17 (J)	0.057 (J)				
6/20/2018					0.038 (J)			
9/25/2018			0.15 (J)					
9/26/2018	0.12 (J)	<0.1		<0.1	<0.1			
11/6/2018			<0.1					
11/7/2018	<0.1	<0.1		<0.1	<0.1			
3/25/2019	0.038 (J)	0.039 (J)	0.12 (J)	0.036 (J)	0.041 (J)			
8/27/2019	<0.1			<0.1	<0.1			
8/28/2019		<0.1	0.068 (J)					
10/15/2019				0.14 (J)				
10/16/2019	0.046 (J)	0.044 (J)	0.1 (J)		0.044 (J)			
11/7/2019						0.49	<0.1	1.4
11/18/2019						0.52		
11/19/2019							0.033 (J)	1.2
12/4/2019							0.22 (J)	1.4
12/5/2019						0.5		
12/17/2019							<0.1	
12/18/2019						0.33		1.5
1/8/2020							<0.1	<0.1
1/9/2020						0.12 (J)		
1/21/2020						0.13 (J)	0.11 (J)	0.53
2/4/2020						0.18 (J)	<0.1	<0.1
2/13/2020						0.077 (J)	<0.1	<0.1
3/26/2020	<0.1							
3/27/2020		<0.1	0.066 (J)	<0.1	<0.1	0.06 (J)	<0.1	<0.1
10/12/2020			<0.1			0.34		
10/13/2020	<0.1	<0.1		<0.1	<0.1		<0.1	<0.1
3/2/2021				<0.1				
3/3/2021	<0.1	<0.1	0.082 (J)		<0.1	0.32	<0.1	<0.1
9/14/2021	<0.1	<0.1	0.18	<0.1	<0.1	<0.1	<0.1	<0.1
3/1/2022							<0.1	<0.1
3/2/2022	<0.1	<0.1	0.097 (J)	<0.1		<0.1		
3/3/2022					<0.1			
9/20/2022						0.61 (J)	<0.1	4.3 (JO)
9/21/2022	<0.1	<0.1	0.11	<0.1	<0.1			
2/28/2023						0.407 (J)	0.38 (J)	3.32
3/1/2023	<0.1	<0.1	0.101		0.0397 (J)			
3/2/2023				0.0397 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/12/2023	<0.1			<0.1	<0.1			
9/13/2023			0.362				<0.1	3.98
9/14/2023		<0.1				0.251 (J)		
3/19/2024		<0.1				0.702	1.2 (J)	
3/20/2024	0.0748 (J)		0.206	<0.1				
3/21/2024					0.0585 (J)			3.79
9/10/2024			0.202					
9/11/2024	0.0669 (J)	<0.1		<0.1	<0.1	0.267	0.743 (J)	2.83
3/18/2025	0.0534 (J)		0.0773 (J)					
3/19/2025						0.564	0.831 (J)	2.94
3/20/2025		<0.1		<0.1	<0.1			
9/9/2025	0.0772 (J)			0.0538 (J)		0.369 (J)	0.778	3.2
9/10/2025		0.0373 (J)	0.359		0.0442 (J)			
3/10/2026	0.0665 (J)					0.433		
3/11/2026		<0.1	0.131	0.0579 (J)			0.381 (J)	
3/12/2026					0.0547 (J)			0.421 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					1.5	0.5		
8/31/2016		0.93	0.41	0.92				
10/25/2016							1.1	
11/30/2016		0.93	0.61	0.99	1.4	0.49	1.3	
2/15/2017					1.3	0.58	1.3	
2/16/2017		0.6	0.3 (J)	0.54				
5/31/2017					1.2	0.56	1.3	
6/1/2017	<0.1							
6/2/2017		0.34	0.19 (J)	0.42				
8/2/2017	0.27 (J)							
8/15/2017					1.2		1.2	
8/16/2017						0.45		
8/17/2017	0.18 (J)	0.52	0.26 (J)	0.27 (J)				
4/4/2018	<0.1							
5/8/2018	0.56							
6/19/2018					0.91	<0.1	0.6	
6/20/2018	0.033 (J)	0.5	0.22 (J)					
6/21/2018				0.28 (J)				
9/25/2018					1.1	<0.1		
9/26/2018							0.44 (D)	
9/27/2018	0.12 (J)	0.32	0.068 (J)	0.32				
11/6/2018	<0.1			0.086 (J)		0.084 (J)	0.4	
11/7/2018		0.35	10.3 (O)		<0.1			
3/6/2019			<0.1					
3/24/2019		0.32	0.19 (J)	0.14 (J)	0.99	0.14 (J)	0.31	
3/25/2019	0.055 (J)							
8/26/2019						<0.1		
8/27/2019	<0.1				1.1		<0.1	
8/28/2019		0.36	<0.1	<0.1				
10/15/2019	0.095 (J)				1	<0.1		
10/16/2019		0.41					0.083 (J)	
10/17/2019			<0.1	<0.1				
11/20/2019		0.34		<0.1				
11/21/2019						<0.1	<0.1	
3/27/2020					1.1	<0.1	<0.1	
3/28/2020	<0.1	0.34	<0.1	<0.1				
10/12/2020					1.2			
10/13/2020	<0.1					<0.1	<0.1	
10/14/2020			<0.1	<0.1				
10/15/2020		0.22						0.11
1/4/2021		<0.1						
3/2/2021					1	<0.1		
3/3/2021							0.58 (J)	
3/4/2021	<0.1	0.45	<0.1	<0.1				<0.1
7/1/2021						<0.1		
9/13/2021					1.4	<0.1		
9/14/2021	<0.1	<0.1	<0.1	<0.1			<0.1	<0.1
3/1/2022		<0.1	<0.1					<0.1
3/2/2022				<0.1				
3/3/2022	<0.1				0.95	<0.1	<0.1	
9/20/2022			1.1 (J)					<0.1
9/21/2022	<0.1	0.48		0.18	1.3	0.12	0.78	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
2/28/2023					1.21		0.815	
3/1/2023	<0.1							
3/2/2023		0.388	0.419 (J)	0.44 (J)		0.188 (J)		<0.1
9/12/2023		0.374			1.32	<0.1		
9/13/2023	0.0941 (J)			0.982			1.46	
9/14/2023			0.246 (J)					<0.1
3/19/2024					1.34		0.959 (J)	
3/20/2024	0.0744 (J)					0.294 (J)		
3/21/2024		0.277	0.469 (J)	0.814 (J)				<0.1
9/10/2024	0.0749 (J)				1.67		0.986 (J)	
9/11/2024		0.654		0.692		0.164 (J)		<0.1
9/12/2024			0.392 (J)					
3/17/2025					1.36	0.273 (J)		
3/18/2025							1.45	0.789 (J)
3/19/2025		0.557	0.407 (J)	0.798 (J)				
3/20/2025	0.0536 (J)							
9/9/2025		0.719	0.272 (J)		1.51	<0.1		
9/10/2025	<0.1							0.37 (J)
9/11/2025				0.589			0.995	
3/10/2026	0.0536 (J)	0.486 (J)	0.28 (J)			0.224 (J)	0.858	3.19
3/11/2026				0.603	1.58			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.002				<0.002			
11/30/2016	<0.002				0.0002 (J)			
2/15/2017	<0.002				<0.002			
5/31/2017		<0.002	<0.002					
6/1/2017	<0.002				<0.002			
6/2/2017				<0.002				
8/2/2017		0.0001 (J)	<0.002	0.0001 (J)				
8/15/2017			<0.002					
8/16/2017	<0.002	<0.002						
8/17/2017				0.0001 (J)	<0.002			
4/4/2018			<0.002	<0.002				
4/5/2018		<0.002						
5/8/2018			<0.002	<0.002				
5/9/2018		<0.002						
6/19/2018	<0.002	<0.002	<0.002	<0.002				
6/20/2018					<0.002			
9/25/2018			<0.002					
9/26/2018	<0.002	<0.002		<0.002	<0.002			
11/6/2018			<0.002					
11/7/2018	<0.002	<0.002		<0.002	<0.002			
3/25/2019			<0.002					
8/27/2019	<0.002			0.00011 (J)	<0.002			
8/28/2019		<0.002	<0.002					
10/15/2019				0.00038 (J)				
10/16/2019	<0.002	<0.002	<0.002		<0.002			
11/7/2019						<0.002	0.00063 (J)	0.0019 (J)
11/18/2019						<0.002		
11/19/2019							<0.002	0.0013 (J)
12/4/2019							5.3E-05 (J)	0.00045 (J)
12/5/2019						<0.002		
12/17/2019							<0.002	
12/18/2019						<0.002		0.00023 (J)
1/8/2020							<0.002	0.00029 (J)
1/9/2020						<0.002		
1/21/2020						<0.002	<0.002	0.00033 (J)
2/4/2020						<0.002	<0.002	<0.01
2/13/2020						<0.002	<0.025 (O)	0.00023 (J)
3/26/2020	<0.002							
3/27/2020		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01
10/12/2020			<0.002			<0.002		
10/13/2020	<0.002	<0.002		<0.002	<0.002		<0.002	<0.01
3/2/2021				<0.002				
3/3/2021	<0.002	<0.002	<0.002		<0.002	<0.002	<0.002	<0.01
9/14/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01
3/1/2022							<0.002	<0.01
3/2/2022	<0.002	<0.002	<0.002	<0.002		<0.002		
3/3/2022					<0.002			
9/20/2022						<0.002	<0.002	<0.01
9/21/2022	<0.002	<0.002	<0.002	0.00092 (J)	<0.002			
2/28/2023						<0.002	<0.002	<0.01
3/1/2023	<0.002	<0.002	<0.002		<0.002			
3/2/2023				<0.002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/12/2023	<0.002			<0.002	0.000563 (J)			
9/13/2023			<0.002				<0.002	0.000678 (J)
9/14/2023		<0.002				<0.002		
3/19/2024		<0.002				<0.002	<0.002	
3/20/2024	<0.002		<0.002	<0.002				
3/21/2024					<0.002			<0.01
9/10/2024			<0.002					
9/11/2024	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	<0.01
3/18/2025	<0.002		<0.002					
3/19/2025						<0.002	<0.002	<0.01
3/20/2025		<0.002		<0.002	<0.002			
9/9/2025	<0.002			<0.002		<0.002	<0.002	<0.01
9/10/2025		<0.002	<0.002		<0.002			
3/10/2026	<0.002					<0.002		
3/11/2026		<0.002	<0.002	<0.002			<0.002	
3/12/2026					<0.002			<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0001 (J)	<0.01		
8/31/2016		<0.01	<0.01	<0.01				
10/25/2016							<0.002	
11/30/2016		0.0002 (J)	<0.01	<0.01	<0.002	<0.01	<0.002	
2/15/2017					<0.002	<0.01	<0.002	
2/16/2017		<0.01	<0.01	0.0002 (J)				
5/31/2017					9E-05 (J)	<0.01	<0.002	
6/1/2017	<0.002							
6/2/2017		<0.01	<0.01	<0.01				
8/2/2017	<0.002							
8/15/2017					<0.002		0.0002 (J)	
8/16/2017						8E-05 (J)		
8/17/2017	<0.002	<0.01	<0.01	8E-05 (J)				
4/4/2018	<0.002							
5/8/2018	<0.002							
6/19/2018					<0.002	<0.01	<0.002	
6/20/2018	<0.002	<0.01	<0.01					
6/21/2018				<0.01				
9/25/2018					<0.002	<0.01		
9/26/2018							<0.002	
9/27/2018	<0.002	<0.01	<0.01	<0.01				
11/6/2018	<0.002			<0.01		<0.01	<0.002	
11/7/2018		<0.01	<0.01		<0.002			
3/6/2019			<0.01					
8/26/2019						<0.01		
8/27/2019	<0.002				0.00022 (J)		0.00014 (J)	
8/28/2019		<0.01	<0.01	0.0001 (J)				
10/15/2019	<0.002				5.6E-05 (J)	<0.01		
10/16/2019		<0.01					0.00034 (J)	
10/17/2019			0.00012 (J)	<0.01				
3/27/2020					<0.002	<0.01	<0.002	
3/28/2020	<0.002	<0.01	<0.01	<0.01				
10/12/2020					<0.002			
10/13/2020	<0.002					<0.01	<0.002	
10/14/2020			<0.01	<0.01				
10/15/2020		<0.01						<0.01
1/4/2021		<0.01						
3/2/2021					<0.002	<0.01		
3/3/2021							<0.002	
3/4/2021	<0.002	<0.01	<0.01	<0.01				<0.01
9/13/2021					<0.002	<0.01		
9/14/2021	<0.002	<0.01	<0.01	<0.01			<0.002	<0.01
3/1/2022		<0.01	<0.01					<0.01
3/2/2022				<0.01				
3/3/2022	<0.002				<0.002	<0.01	<0.002	
9/20/2022			<0.01					<0.01
9/21/2022	<0.002	<0.01		<0.01	0.00083 (J)	<0.01	<0.002	
2/28/2023					<0.002		<0.002	
3/1/2023	<0.002							
3/2/2023		<0.01	<0.01	<0.01		<0.01		<0.01
9/12/2023		<0.01			<0.002	<0.01		
9/13/2023	<0.002			<0.01			<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/14/2023			<0.01					<0.01
3/19/2024					<0.002		<0.002	
3/20/2024	<0.002					<0.01		
3/21/2024		<0.01	<0.01	<0.01				<0.01
9/10/2024	<0.002				<0.002		<0.002	
9/11/2024		<0.01		<0.01		<0.01		<0.01
9/12/2024			<0.01					
3/17/2025					<0.002	<0.01		
3/18/2025							<0.002	<0.01
3/19/2025		<0.01	<0.01	<0.01				
3/20/2025	<0.002							
9/9/2025		<0.01	<0.01		0.00073 (J)	<0.01		
9/10/2025	<0.002							<0.01
9/11/2025				<0.01			<0.002	
3/10/2026	<0.002	<0.01	<0.01			<0.01	<0.002	<0.01
3/11/2026				<0.01	<0.002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.01				<0.01			
11/30/2016	<0.01				<0.01			
2/15/2017	<0.01				<0.01			
5/31/2017		<0.01	0.0047 (J)					
6/1/2017	<0.01				<0.01			
6/2/2017				<0.01				
8/2/2017		<0.01	0.0036 (J)	<0.01				
8/15/2017			<0.01					
8/16/2017	<0.01	<0.01						
8/17/2017				<0.01	<0.01			
4/4/2018			0.0041 (J)	0.0015 (J)				
4/5/2018		<0.01						
5/8/2018			0.0052 (J)	0.0014 (J)				
5/9/2018		<0.01						
6/19/2018	<0.01	<0.01	0.0017 (J)	0.0016 (J)				
6/20/2018					<0.01			
9/25/2018			0.0018 (J)					
9/26/2018	<0.01	<0.01		0.0018 (J)	<0.01			
11/6/2018			<0.01					
11/7/2018	<0.01	<0.01		<0.01	<0.01			
8/27/2019	<0.01			0.002 (J)	<0.01			
8/28/2019		<0.01	0.00082 (J)					
10/15/2019				0.0016 (J)				
10/16/2019	<0.01	<0.01	<0.01		<0.01			
11/7/2019						0.0055 (J)	0.015 (J)	0.026 (J)
11/18/2019						<0.1 (O)		
11/19/2019							0.02 (J)	0.023 (J)
12/4/2019							0.016 (J)	0.019 (J)
12/5/2019						0.0042 (J)		
12/17/2019							0.018 (J)	
12/18/2019						0.0045 (J)		0.02 (J)
1/8/2020							0.022 (J)	0.024 (J)
1/9/2020						0.0041 (J)		
1/21/2020						<0.15 (O)	0.018 (J)	0.022 (J)
2/4/2020						<0.3 (O)	0.02 (J)	0.024 (J)
2/13/2020						0.004 (J)	0.018 (J)	0.021 (J)
3/26/2020	<0.01							
3/27/2020		<0.01	<0.01	<0.01	<0.01	<0.01	0.018 (J)	0.024 (J)
10/12/2020			<0.01			<0.01		
10/13/2020	<0.01	<0.01		<0.01	<0.01		0.022 (J)	0.025 (J)
3/2/2021				<0.01				
3/3/2021	<0.01	<0.01	<0.01		<0.01	<0.01	0.019 (J)	0.018 (J)
9/14/2021	<0.01	<0.01	0.0033 (J)	<0.01	<0.01	<0.01	0.011 (J)	0.02 (J)
3/1/2022							<0.01	0.02 (J)
3/2/2022	0.00064 (J)	<0.01	0.0026	0.0017 (J)		<0.01		
3/3/2022					0.00061 (J)			
9/20/2022						<0.01	0.014 (J)	0.029
9/21/2022	<0.01	<0.01	<0.01	<0.01	<0.01			
2/28/2023						0.00327 (J)	0.019 (J)	0.0221 (J)
3/1/2023	<0.01	<0.01	<0.01		<0.01			
3/2/2023				<0.01				
9/12/2023	<0.01			<0.01	<0.01			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/13/2023			0.00978 (J)				0.0415	0.0493
9/14/2023		<0.01				0.00366 (J)		
3/19/2024		<0.01				<0.01	0.0201 (J)	
3/20/2024	<0.01		<0.01	<0.01				
3/21/2024					<0.01			0.0206 (J)
9/10/2024			<0.01					
9/11/2024	<0.01	<0.01		<0.01	<0.01	<0.01	0.02	0.0201
3/18/2025	<0.01		<0.01					
3/19/2025						<0.01	0.0173	0.0182
3/20/2025		<0.01		<0.01	<0.01			
9/9/2025	<0.01			<0.01		0.00343 (J)	0.0153 (J)	0.022 (J)
9/10/2025		<0.01	0.00642 (J)		<0.01			
3/10/2026	<0.01					<0.01		
3/11/2026		<0.01	<0.01	<0.01			0.0107	
3/12/2026					<0.01			0.0188 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0102 (J)	0.0112 (J)		
8/31/2016		0.0219 (J)	0.0389 (J)	0.0122 (J)				
10/25/2016							0.007 (J)	
11/30/2016		0.0333 (J)	0.0303 (J)	0.011 (J)	0.0106 (J)	<0.01	0.0086 (J)	
2/15/2017					0.0115 (J)	0.0105 (J)	0.0149 (J)	
2/16/2017		0.0376 (J)	0.05 (J)	0.0142 (J)				
5/31/2017					0.011 (J)	0.0106 (J)	0.019 (J)	
6/1/2017	<0.01							
6/2/2017		0.0346 (J)	0.0477 (J)	0.0229 (J)				
8/2/2017	<0.01							
8/15/2017					0.0123 (J)		0.016 (J)	
8/16/2017						0.0145 (J)		
8/17/2017	<0.01	0.0367 (J)	0.0645	0.0241 (J)				
4/4/2018	0.0013 (J)							
5/8/2018	0.0012 (J)							
6/19/2018					0.012 (J)	0.044 (J)	0.021 (J)	
6/20/2018	0.0015 (J)	0.034 (J)	0.066 (J)					
6/21/2018				0.03 (J)				
9/25/2018					0.011 (J)	0.041 (J)		
9/26/2018							0.02 (J)	
9/27/2018	0.0021 (J)	0.023 (J)	0.045 (J)	0.034 (J)				
11/6/2018	0.0038 (J)			0.037 (J)		0.047 (J)	0.017 (J)	
11/7/2018		0.022 (J)	0.11		0.013 (J)			
3/6/2019			0.12					
8/26/2019						0.059		
8/27/2019	0.002 (J)				0.012 (J)		0.023 (J)	
8/28/2019		0.023 (J)	0.13	0.12				
10/15/2019	0.0019 (J)				0.012 (J)	0.056 (J)		
10/16/2019		0.021 (J)					0.024 (J)	
10/17/2019			0.12	0.096				
11/20/2019				0.12				
11/21/2019						0.052		
3/27/2020					<0.01	0.052	0.033 (J)	
3/28/2020	<0.01	0.014 (J)	0.064	0.027 (J)				0.078
6/16/2020			0.12 (J)	0.049 (J)				0.096 (J)
10/12/2020					0.011 (J)			
10/13/2020	<0.01					0.046 (J)	0.028 (J)	
10/14/2020			0.11	0.039 (J)				
10/15/2020		0.57						0.093
1/4/2021		0.043 (J)						
3/2/2021					<0.01	0.046 (J)		
3/3/2021							<0.01	
3/4/2021	<0.01	0.017 (J)	0.096 (J)	0.035 (J)				0.094 (J)
7/1/2021						<0.01		
9/13/2021					0.01 (J)	0.047		
9/14/2021	<0.01	0.042 (J)	0.084	0.035 (J)			0.035 (J)	0.092
3/1/2022		0.028 (J)	0.074					0.088 (J)
3/2/2022				0.022 (J)				
3/3/2022	0.0017 (J)				<0.01	0.037 (J)	0.02 (J)	
9/20/2022			0.043					<0.01
9/21/2022	<0.01	0.018 (J)		0.02 (J)	0.0075 (J)	0.028	0.023 (J)	
2/28/2023					0.0104 (J)		0.0257 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/1/2023	<0.01							
3/2/2023		0.0237 (J)	0.0361 (J)	0.0217 (J)		0.0218 (J)		0.0919
9/12/2023		0.0301			0.0115	0.0222		
9/13/2023	<0.01			0.027			0.037	
9/14/2023			0.0551					0.087
3/19/2024					0.0104		0.0223	
3/20/2024	<0.01					0.0208		
3/21/2024		0.0329	0.0458	0.0135				0.08
9/10/2024	<0.01				0.00967 (J)		0.0211	
9/11/2024		0.029		0.0147		0.0204		0.0667
9/12/2024			0.055					
3/17/2025					0.00974 (J)	0.0373		
3/18/2025							0.023	0.0665
3/19/2025		0.0476	0.0636	0.0123				
3/20/2025	<0.01							
9/9/2025		0.0533	0.0616		0.0102	0.0348 (J)		
9/10/2025	<0.01							0.066
9/11/2025				0.0161			0.0213 (J)	
3/10/2026	<0.01	0.0541	0.056			0.0349	0.0188	0.0696
3/11/2026				0.0123	0.00893 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.0002				<0.0002			
11/30/2016	<0.0002				<0.0002			
2/15/2017	<0.0002				<0.0002			
5/31/2017		<0.0002	<0.0002					
6/1/2017	<0.0002				<0.0002			
6/2/2017				<0.0002				
8/2/2017		<0.0002	<0.0002	<0.0002				
8/15/2017			<0.0002					
8/16/2017	<0.0002	<0.0002						
8/17/2017				<0.0002	<0.0002			
4/4/2018			<0.0002	<0.0002				
4/5/2018		<0.0002						
5/8/2018			<0.0002	<0.0002				
5/9/2018		<0.0002						
6/19/2018	<0.0002	<0.0002	<0.0002	<0.0002				
6/20/2018					<0.0002			
9/25/2018			<0.0002					
9/26/2018	<0.0002	<0.0002		<0.0002	<0.0002			
11/6/2018			0.0007					
11/7/2018	<0.0002	<0.0002		<0.0002	<0.0002			
8/27/2019	<0.0002			<0.0002	<0.0002			
8/28/2019		<0.0002	<0.0002					
10/15/2019				<0.0002				
10/16/2019	<0.0002	<0.0002	<0.0002		<0.0002			
11/7/2019						<0.0002	<0.0002	<0.0002
11/18/2019						<0.0002		
11/19/2019							<0.0002	<0.0002
12/4/2019							<0.0002	<0.0002
12/5/2019						<0.0002		
12/17/2019							<0.0002	
12/18/2019						<0.0002		<0.0002
1/8/2020							<0.0002	<0.0002
1/9/2020						<0.0002		
1/21/2020						<0.0002	<0.0002	<0.0002
2/4/2020						<0.0002	<0.0002	<0.0002
2/13/2020						<0.0002	<0.0002	<0.0002
3/26/2020	<0.0002							
3/27/2020		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/14/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/1/2022							<0.0002	<0.0002
3/2/2022	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002		
3/3/2022					<0.0002			
9/20/2022						<0.0002	<0.0002	<0.0002
9/21/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
2/28/2023						<0.0002	<0.0002	<0.0002
3/1/2023	<0.0002	<0.0002	<0.0002		<0.0002			
3/2/2023				<0.0002				
9/12/2023	<0.0002			<0.0002	<0.0002			
9/13/2023			<0.0002				<0.0002	<0.0002
9/14/2023		<0.0002				<0.0002		
3/19/2024		<0.0002				<0.0002	8.7E-05 (J)	
3/20/2024	<0.0002		<0.0002	<0.0002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/21/2024					<0.0002			0.000162 (J)
9/10/2024			<0.0002					
9/11/2024	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/18/2025	<0.0002		<0.0002					
3/19/2025						<0.0002	9.8E-05 (J)	<0.0002
3/20/2025		<0.0002		<0.0002	<0.0002			
9/9/2025	<0.0002			<0.0002		<0.0002	<0.0002	<0.0002
9/10/2025		<0.0002	<0.0002		<0.0002			
3/10/2026	<0.0002					<0.0002		
3/11/2026		<0.0002	<0.0002	<0.0002			<0.0002	
3/12/2026					<0.0002			<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.0002	<0.0002		
8/31/2016		<0.0002	<0.0002	<0.0002				
10/25/2016							<0.0002	
11/30/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/15/2017					<0.0002	<0.0002	<0.0002	
2/16/2017		<0.0002	<0.0002	<0.0002				
5/31/2017					<0.0002	<0.0002	<0.0002	
6/1/2017	<0.0002							
6/2/2017		4.2E-05 (J)	<0.0002	<0.0002				
8/2/2017	<0.0002							
8/15/2017					<0.0002		<0.0002	
8/16/2017						<0.0002		
8/17/2017	<0.0002	<0.0002	<0.0002	<0.0002				
4/4/2018	<0.0002							
5/8/2018	<0.0002							
6/19/2018					<0.0002	<0.0002	<0.0002	
6/20/2018	<0.0002	<0.0002	<0.0002					
6/21/2018				<0.0002				
9/25/2018					<0.0002	<0.0002		
9/26/2018							<0.0002	
9/27/2018	<0.0002	<0.0002	<0.0002	<0.0002				
11/6/2018	0.00071			0.00067		0.00066	0.00064	
11/7/2018		<0.0002	<0.0002		<0.0002			
3/6/2019			<0.0002					
8/26/2019						<0.0002		
8/27/2019	<0.0002				<0.0002		<0.0002	
8/28/2019		<0.0002	<0.0002	<0.0002				
10/15/2019	<0.0002				<0.0002	<0.0002		
10/16/2019		<0.0002					<0.0002	
10/17/2019			<0.0002	<0.0002				
3/27/2020					<0.0002	<0.0002	<0.0002	
3/28/2020	<0.0002	<0.0002	<0.0002	<0.0002				
9/13/2021					<0.0002	<0.0002		
9/14/2021	<0.0002	<0.0002	0.00016 (J)	<0.0002			<0.0002	<0.0002
3/1/2022		<0.0002	<0.0002					<0.0002
3/2/2022				<0.0002				
3/3/2022	<0.0002				<0.0002	<0.0002	<0.0002	
9/20/2022			<0.0002					<0.0002
9/21/2022	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	
2/28/2023					<0.0002		<0.0002	
3/1/2023	<0.0002							
3/2/2023		<0.0002	<0.0002	<0.0002		<0.0002		<0.0002
9/12/2023		<0.0002			<0.0002	<0.0002		
9/13/2023	<0.0002			<0.0002			<0.0002	
9/14/2023			<0.0002					<0.0002
3/19/2024					<0.0002		<0.0002	
3/20/2024	<0.0002					<0.0002		
3/21/2024		<0.0002	<0.0002	<0.0002				<0.0002
9/10/2024	<0.0002				<0.0002		<0.0002	
9/11/2024		<0.0002		<0.0002		<0.0002		<0.0002
9/12/2024			<0.0002					
3/17/2025					<0.0002	<0.0002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/18/2025							<0.0002	<0.0002
3/19/2025		<0.0002	<0.0002	<0.0002				
3/20/2025	<0.0002							
9/9/2025		<0.0002	<0.0002		<0.0002	<0.0002		
9/10/2025	<0.0002							<0.0002
9/11/2025				<0.0002			<0.0002	
3/10/2026	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002	<0.0002
3/11/2026				<0.0002	<0.0002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.001				<0.001			
11/30/2016	<0.001				<0.001			
2/15/2017	<0.001				<0.001			
5/31/2017		<0.001	<0.001					
6/1/2017	<0.001				<0.001			
6/2/2017				<0.01				
8/2/2017		<0.001	<0.001	<0.01				
8/15/2017			<0.001					
8/16/2017	<0.001	<0.001						
8/17/2017				<0.01	<0.001			
4/4/2018			<0.001	<0.01				
4/5/2018		<0.001						
5/8/2018			<0.001	0.002 (J)				
5/9/2018		<0.001						
6/19/2018	<0.001	<0.001	<0.001	<0.01				
6/20/2018					<0.001			
9/25/2018			<0.001					
9/26/2018	<0.001	<0.001		<0.01	<0.001			
11/6/2018			<0.001					
11/7/2018	<0.001	<0.001		<0.01	<0.001			
8/27/2019	<0.001			<0.01	<0.001			
8/28/2019		<0.001	<0.001					
10/15/2019				<0.01				
10/16/2019	<0.001	<0.001	<0.001		<0.001			
11/7/2019						<0.001	<0.001	<0.005
11/18/2019						<0.001		
11/19/2019							<0.001	<0.005
12/4/2019							<0.001	<0.005
12/5/2019						<0.001		
12/17/2019							<0.001	
12/18/2019						<0.001		<0.005
1/8/2020							<0.001	<0.005
1/9/2020						<0.001		
1/21/2020						<0.001	<0.001	<0.005
2/4/2020						<0.001	<0.001	<0.005
2/13/2020						<0.001	<0.001	<0.005
3/26/2020	<0.001							
3/27/2020		<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.005
9/14/2021	<0.001	0.0008 (J)	<0.001	0.0009 (J)	<0.001	<0.001	<0.001	<0.005
3/1/2022							<0.001	<0.005
3/2/2022	<0.001	<0.001	<0.001	0.00078 (J)		<0.001		
3/3/2022					0.00021 (J)			
9/20/2022						<0.001	<0.001	<0.005
9/21/2022	<0.001	<0.001	<0.001	0.00094 (J)	<0.001			
2/28/2023						<0.001	<0.001	<0.005
3/1/2023	0.000258 (J)	<0.001	<0.001		0.000517 (J)			
3/2/2023				0.00133 (J)				
9/12/2023	<0.001			0.00141	0.00023 (J)			
9/13/2023			<0.001				<0.001	<0.005
9/14/2023		<0.001				<0.001		
3/19/2024		0.000259 (J)				<0.001	<0.001	
3/20/2024	<0.001		<0.001	0.000738 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/21/2024					<0.001			<0.005
9/10/2024			<0.001					
9/11/2024	<0.001	<0.001		0.00123	<0.001	<0.001	<0.001	<0.005
3/18/2025	<0.001		<0.001					
3/19/2025						<0.001	<0.001	<0.005
3/20/2025		<0.001		0.00118	<0.001			
9/9/2025	<0.001			0.000716 (J)		<0.001	<0.001	<0.005
9/10/2025		<0.001	0.000294 (J)		<0.001			
3/10/2026	<0.001					<0.001		
3/11/2026		<0.001	<0.001	0.000663 (J)			<0.001	
3/12/2026					<0.001			<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.015	<0.005		
8/31/2016		<0.02	<0.005	<0.005				
10/25/2016							<0.001	
11/30/2016		<0.02	<0.005	<0.005	<0.015	<0.005	<0.001	
2/15/2017					<0.015	<0.005	<0.001	
2/16/2017		<0.02	<0.005	<0.005				
5/31/2017					<0.015	<0.005	<0.001	
6/1/2017	<0.001							
6/2/2017		<0.02	<0.005	<0.005				
8/2/2017	<0.001							
8/15/2017					<0.015		<0.001	
8/16/2017						<0.005		
8/17/2017	<0.001	0.0012 (J)	0.0025 (J)	<0.005				
4/4/2018	<0.001							
5/8/2018	<0.001							
6/19/2018					<0.015	<0.005	<0.001	
6/20/2018	<0.001	<0.02	<0.005					
6/21/2018				<0.005				
9/25/2018					<0.015	<0.005		
9/26/2018							<0.001	
9/27/2018	<0.001	<0.02	<0.005	<0.005				
11/6/2018	<0.001			<0.005		<0.005	<0.001	
11/7/2018		<0.02	0.0024 (J)		<0.015			
3/6/2019			<0.005					
8/26/2019						<0.005		
8/27/2019	<0.001				<0.015		<0.001	
8/28/2019		<0.02	0.0017 (J)	<0.005				
10/15/2019	<0.001				<0.015	<0.005		
10/16/2019		<0.02					<0.001	
10/17/2019			0.0017 (J)	<0.005				
3/27/2020					<0.015	<0.005	<0.001	
3/28/2020	<0.001	<0.02	<0.005	<0.005				
9/13/2021					<0.015	<0.005		
9/14/2021	<0.001	0.0099 (J)	<0.005	<0.005			<0.001	<0.005
3/1/2022		<0.02	<0.005					<0.005
3/2/2022				<0.005				
3/3/2022	0.00015 (J)				<0.015	<0.005	<0.001	
9/20/2022			0.0013 (J)					<0.005
9/21/2022	<0.001	0.00095 (J)		0.00095 (J)	<0.015	<0.005	<0.001	
2/28/2023					0.000362 (J)		0.000313 (J)	
3/1/2023	<0.001							
3/2/2023		0.000852 (J)	0.00131 (J)	0.000963 (J)		<0.005		0.000245 (J)
9/12/2023		0.000809 (J)			0.000423 (J)	<0.005		
9/13/2023	<0.001			0.000847 (J)			0.000217 (J)	
9/14/2023			0.000839 (J)					<0.005
3/19/2024					0.00055 (J)		0.00102 (J)	
3/20/2024	<0.001					<0.005		
3/21/2024		0.000936 (J)	0.000983 (J)	0.00146 (J)				<0.005
9/10/2024	<0.001				0.000276 (J)		<0.001	
9/11/2024		0.00113		0.000949 (J)		<0.005		0.000217 (J)
9/12/2024			0.000895 (J)					
3/17/2025					0.00044 (J)	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/18/2025							0.00028 (J)	0.00031 (J)
3/19/2025		0.0018	0.000896 (J)	0.000592 (J)				
3/20/2025	<0.001							
9/9/2025		0.00212	0.000587 (J)		0.000438 (J)	<0.005		
9/10/2025	0.000218 (J)							0.000393 (J)
9/11/2025				0.000526 (J)			0.000272 (J)	
3/10/2026	<0.001	0.00224 (J)	<0.005			<0.005	0.000374 (J)	<0.005
3/11/2026				<0.005	0.000451 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (SU) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	5.66				5.18			
11/30/2016	5.36				4.96			
2/15/2017	5.25				5.13			
5/31/2017		5.06	5.29					
6/1/2017	5.59				4.99			
6/2/2017				5.31				
8/2/2017		5	5.19	5.05				
8/15/2017			5.19					
8/16/2017	5.58	4.98						
8/17/2017				5.52	4.68			
4/4/2018			5.19	5.45				
4/5/2018		5.02						
5/8/2018			5.3	5.54				
5/9/2018		4.96						
6/19/2018	5.51	5.02	5.15	5.6				
6/20/2018					4.77			
9/25/2018			5.13					
9/26/2018	5.32	5.06		5.17	4.65			
11/6/2018			5.08					
11/7/2018	5.72	5.03		5.47	4.99			
3/24/2019				5.4				
3/25/2019	5.75	5.08	5.05	5.4	5.13			
8/27/2019	5.58			5.35	4.88			
8/28/2019		4.99	4.87					
10/15/2019				5.32				
10/16/2019	5.72	4.98	5.05		4.89			
11/7/2019						4.25	5.21	3.79
11/18/2019						4.12		
11/19/2019		5.11					5.15	3.78
11/20/2019	5.77							
12/4/2019							5.28	3.87
12/5/2019						4.17		
12/17/2019							4.96	
12/18/2019						4.2		3.76
1/8/2020							5.04	3.77
1/9/2020						4.19		
1/21/2020						4.28	5.1	3.73
2/4/2020						4.26	5.15	3.72
2/13/2020						4.2	5.07	3.75
3/26/2020	5.45							
3/27/2020		5.12	5.09	5.3	5.12	4.34	5.14	3.81
10/12/2020			5			4.29		
10/13/2020	5.69	5.03		5.02	5.17		5.04	3.72
3/2/2021				5.16				
3/3/2021	5.81	5.06	5.37		5.71	4.37	5.1	3.76
9/14/2021	5.13	5.04	5.5	5.39	4.69	4.28	5.31	3.72
3/1/2022							5.38	3.69
3/2/2022	5.32	5.16	5.11	5.37		4.33		
3/3/2022					4.88			
9/20/2022						4.47	5.14	3.63
9/21/2022	4.95	5.14	4.97	5.23	4.91			
2/28/2023						4.42	5.08	3.7 (D)

Time Series

Constituent: pH, Field (SU) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/1/2023	4.91	5.1 (D)	4.78		4.76			
3/2/2023				4.45				
9/12/2023	4.54			4.4	4.45			
9/13/2023			4.92				5.05	3.67
9/14/2023		5.02				4.17		
3/19/2024		4.62				4.42	4.97	
3/20/2024	5.04		4.18	5.23				
3/21/2024					5.1			3.67
9/10/2024			5.19					
9/11/2024	5.01	5.43		4.99	5.41	4.04	4.61	3.58
3/18/2025	5.14		5.06					
3/19/2025						4.49	5.16	3.83
3/20/2025		5.6		5.34	5.52			
9/9/2025	5.01			5.33		4.29	4.94	3.67
9/10/2025		5.3	5.29		4.73			
3/10/2026	5.12					4.55		
3/11/2026		5.09	4.73	5.44			5.06	
3/12/2026					5.2			3.51

Time Series

Constituent: pH, Field (SU) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					6.49	7.04		
8/31/2016		6.93	7.21	6.66				
10/25/2016							6.95	
11/30/2016		6.77	7.23	6.69	6.5	7.13	6.95	
2/15/2017					6.51	7.02	6.85	
2/16/2017		6.89	7.27	6.72				
5/31/2017					6.45	7	6.96	
6/1/2017	5.68							
6/2/2017		6.83	7.18	6.53				
8/2/2017	5.2							
8/15/2017					6.41		6.99	
8/16/2017						6.88		
8/17/2017	5.31	6.76	7.15	6.28				
4/4/2018	4.74							
5/8/2018	4.78							
6/19/2018					6.32	6.78	6.91	
6/20/2018	4.79	6.83	7.19					
6/21/2018				6.45				
9/25/2018					6.31	6.75		
9/26/2018							6.8	
9/27/2018	5.14	6.64	7.21	6.48				
11/6/2018	4.9			6.18		6.92	5.99	
11/7/2018		6.6	6.91		6.3			
3/24/2019		6.61	6.98	6.39	6.4	6.59	6.62	
3/25/2019	4.93							
8/26/2019						6.62		
8/27/2019	5.05				6.24		6.23	
8/28/2019		6.69	6.87	6.35				
10/15/2019	4.89				6.19	6.58		
10/16/2019		6.64					6.54	
10/17/2019			6.86	6.4				
11/20/2019	5.03	6.58		6.27				
11/21/2019						6.67	6.44	
3/27/2020					6.33	6.59	6.93	
3/28/2020	5.27	6.6	6.8	6.35				7.11
6/16/2020			6.87	6.33				7.22
10/12/2020					6.35			
10/13/2020	5.25					6.56	6.34	
10/14/2020			6.93	6.32				
10/15/2020		6.52						7.08
1/4/2021		6.66						
3/2/2021					6.34	6.55		
3/3/2021							6.58	
3/4/2021	5.31	6.52	6.94	6.33				7.21
7/1/2021						6.64		
9/13/2021					6.24	6.3		
9/14/2021	5.09	6.67	6.94	6.28			6.77	7.11
3/1/2022		6.87	7.24					7.08
3/2/2022				6.41				
3/3/2022	4.98				6.51	6.49	6.26	
6/28/2022			7.28					7.09
9/20/2022			7.29					7.07

Time Series

Constituent: pH, Field (SU) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/21/2022	5.34	6.93		6.27	6.3	6.61	6.72	
2/28/2023					6.28		6.62	
3/1/2023	4.93							
3/2/2023		6.55	7.38	6.28		6.54 (D)		7.12
9/12/2023		6.81			6.43	6.68		
9/13/2023	5.29			6.53			6.55	
9/14/2023			7.3					6.95
3/19/2024					6.55		6.38	
3/20/2024	4.41					6.72		
3/21/2024		6.66	7.02	6.31				7.21
9/10/2024	5.1				6.44		6.11	
9/11/2024		6.94		6.53		6.66		7.18
9/12/2024			7.2					
3/17/2025					6.49	6.44		
3/18/2025							6.59	7.2
3/19/2025		6.91	7.07	6.61				
3/20/2025	4.97							
9/9/2025		6.85	6.72		6.38	6.51		
9/10/2025	5.42							7.17
9/11/2025				6.44			6.42	
3/10/2026	5.07	6.72	6.5			6.26	6.06	7.11
3/11/2026				6.55	6.29			

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.005				<0.005			
11/30/2016	0.0011 (J)				0.0011 (J)			
2/15/2017	<0.005				<0.005			
5/31/2017		<0.005	<0.005					
6/1/2017	<0.005				<0.005			
6/2/2017				<0.005				
8/2/2017		<0.005	<0.005	<0.005				
8/15/2017			<0.005					
8/16/2017	<0.005	<0.005						
8/17/2017				<0.005	<0.005			
4/4/2018			<0.005	<0.005				
4/5/2018		<0.005						
5/8/2018			<0.005	0.0016 (J)				
5/9/2018		<0.005						
6/19/2018	<0.005	<0.005	<0.005	0.0022 (J)				
6/20/2018					<0.005			
9/25/2018			<0.005					
9/26/2018	<0.005	<0.005		0.0015 (J)	<0.005			
11/6/2018			<0.005					
11/7/2018	<0.005	<0.005		<0.005	<0.005			
3/25/2019			<0.005					
8/27/2019	<0.005			0.0018 (J)	<0.005			
8/28/2019		<0.005	<0.005					
10/15/2019				<0.005				
10/16/2019	<0.005	<0.005	<0.005		<0.005			
11/7/2019						0.036	0.063	0.12
11/18/2019						<0.1		
11/19/2019							0.039 (J)	0.047 (J)
12/4/2019							0.12	0.11
12/5/2019						0.032		
12/17/2019							0.031 (J)	
12/18/2019						0.01		0.032 (J)
1/8/2020							0.066	0.044 (J)
1/9/2020						0.01		
1/21/2020						0.023 (J)	0.13	0.089
2/4/2020						0.017 (J)	0.065 (J)	0.049 (J)
2/13/2020						0.015	0.15	0.11
3/26/2020	<0.005							
3/27/2020		<0.005	<0.005	<0.005	<0.005	0.0034 (J)	0.013	0.012
10/12/2020			<0.005			<0.005		
10/13/2020	<0.005	<0.005		<0.005	<0.005		0.0076 (J)	0.0056 (J)
3/2/2021				<0.005				
3/3/2021	<0.005	<0.005	<0.005		<0.005	0.0012 (J)	0.013 (J)	0.0094 (J)
9/14/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0022 (J)	0.0018 (J)
3/1/2022							<0.04	0.0058 (J)
3/2/2022	<0.005	<0.005	0.00022 (J)	0.00028 (J)		<0.005		
3/3/2022					<0.005			
9/20/2022						<0.005	0.0046 (J)	0.0027 (J)
9/21/2022	<0.005	<0.005	<0.005	<0.005	<0.005			
2/28/2023						0.00583 (J)	0.034 (J)	0.0225 (J)
3/1/2023	<0.005	<0.005	<0.005		<0.005			
3/2/2023				<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/12/2023	<0.005			<0.005	<0.005			
9/13/2023			<0.005				0.0237	0.0182
9/14/2023		<0.005				0.00948		
3/19/2024		<0.005				0.00456 (J)	0.0492	
3/20/2024	<0.005		<0.005	<0.005				
3/21/2024					<0.005			0.0249 (J)
9/10/2024			<0.005					
9/11/2024	<0.005	<0.005		<0.005	<0.005	0.0044 (J)	0.0469	0.0212
3/18/2025	<0.005		<0.005					
3/19/2025						0.0056	0.0481	0.0279
3/20/2025		<0.005		<0.005	<0.005			
9/9/2025	<0.005			<0.005		0.00473 (J)	0.0727	0.0365
9/10/2025		<0.005	<0.005		<0.005			
3/10/2026	<0.005					0.0081		
3/11/2026		<0.005	<0.005	0.00152 (J)			0.0115	
3/12/2026					<0.005			0.0461

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0011 (J)	<0.025		
8/31/2016		0.002 (J)	0.0015 (J)	0.0021 (J)				
10/25/2016							0.003 (J)	
11/30/2016		0.0023 (J)	0.0054 (J)	<0.025	0.0023 (J)	<0.025	0.0087 (J)	
2/15/2017					0.0021 (J)	0.0014 (J)	0.0067 (J)	
2/16/2017		0.002 (J)	0.0022 (J)	0.0025 (J)				
5/31/2017					<0.005	<0.025	0.0018 (J)	
6/1/2017	<0.005							
6/2/2017		<0.025	<0.025	<0.025				
8/2/2017	<0.005							
8/15/2017					0.0021 (J)		0.0025 (J)	
8/16/2017						0.0018 (J)		
8/17/2017	<0.005	<0.025	0.002 (J)	0.0033 (J)				
4/4/2018	<0.005							
5/8/2018	<0.005							
6/19/2018					0.0017 (J)	<0.025	<0.025	
6/20/2018	<0.005	<0.025	<0.025					
6/21/2018				<0.025				
9/25/2018					0.002 (J)	0.0019 (J)		
9/26/2018							0.0016 (J)	
9/27/2018	<0.005	<0.025	<0.025	0.0023 (J)				
11/6/2018	0.0025 (J)			0.0048 (J)		0.0057 (J)	<0.025	
11/7/2018		<0.025	0.0075 (J)		<0.005			
3/6/2019			0.0024 (J)					
8/26/2019						0.0025 (J)		
8/27/2019	<0.005				0.0019 (J)		0.0018 (J)	
8/28/2019		<0.025	0.0014 (J)	0.0019 (J)				
10/15/2019	<0.005				<0.005	0.003 (J)		
10/16/2019		<0.025					<0.025	
10/17/2019			0.0066 (J)	0.0049 (J)				
3/27/2020					<0.005	<0.025	<0.025	
3/28/2020	<0.005	<0.025	<0.025	<0.025				
10/12/2020					<0.005			
10/13/2020	<0.005					<0.025	<0.025	
10/14/2020			<0.025	<0.025				
10/15/2020		0.0028 (J)						<0.025
1/4/2021		<0.025						
3/2/2021					<0.005	<0.025		
3/3/2021							<0.025	
3/4/2021	0.00038 (J)	<0.025	<0.025	<0.025				<0.025
9/13/2021					<0.005	<0.025		
9/14/2021	<0.005	<0.025	<0.025	<0.025			<0.025	<0.025
3/1/2022		<0.025	<0.025					<0.025
3/2/2022				<0.025				
3/3/2022	0.00012 (J)				<0.005	<0.025	<0.025	
9/20/2022			<0.025					<0.025
9/21/2022	<0.005	<0.025		<0.025	<0.005	<0.025	<0.025	
2/28/2023					0.00157 (J)		0.00184 (J)	
3/1/2023	<0.005							
3/2/2023		<0.025	<0.025	0.00238 (J)		<0.025		0.00205 (J)
9/12/2023		<0.025			<0.005	<0.025		
9/13/2023	<0.005			<0.025			<0.025	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/14/2023			<0.025					<0.025
3/19/2024					<0.005		<0.025	
3/20/2024	<0.005					<0.025		
3/21/2024		<0.025	<0.025	<0.025				<0.025
9/10/2024	<0.005				<0.005		<0.025	
9/11/2024		<0.025		<0.025		<0.025		0.00176 (J)
9/12/2024			<0.025					
3/17/2025					<0.005	<0.025		
3/18/2025							<0.025	<0.025
3/19/2025		<0.025	<0.025	0.00157 (J)				
3/20/2025	<0.005							
9/9/2025		<0.025	<0.025		<0.005	<0.025		
9/10/2025	<0.005							<0.025
9/11/2025				<0.025			<0.025	
3/10/2026	<0.005	<0.025	<0.025			<0.025	0.00194 (J)	<0.025
3/11/2026				0.00197 (J)	<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	17				24			
11/30/2016	33				26			
2/15/2017	83				30			
5/31/2017		46	40					
6/1/2017	51				24			
6/2/2017				13				
8/2/2017		43	34	14				
8/15/2017			24					
8/16/2017	36	41						
8/17/2017				14	26			
4/4/2018			33.9	13.4				
4/5/2018		33.4						
5/8/2018			35.7	14.8				
5/9/2018		36						
6/19/2018	50.3	35.5	23.7	15.5				
6/20/2018					31.2			
9/25/2018			25.6					
9/26/2018	54.1	39.6		23	36.8			
11/6/2018			25.2					
11/7/2018	45.6	35.8		22.2	35			
3/25/2019	43	34.2	24.9	22.4	40.1			
10/15/2019				17.9				
10/16/2019	31.9	24.4	17.4		28.5			
11/7/2019						379	832	1010
11/18/2019						737		
11/19/2019							795	1140
12/4/2019							810	1020
12/5/2019						351		
12/17/2019							535	
12/18/2019						274		444 (J)
1/8/2020							603	747
1/9/2020						254		
1/21/2020						254	611	798
2/4/2020						432	599	1120
2/13/2020						300	761	833
3/26/2020	36.2							
3/27/2020		28.6	23.4	14.6	31.2	219	836	700
10/12/2020			19.3			191		
10/13/2020	32.3	27.6		7.6	26.8		609	638
3/2/2021				8				
3/3/2021	33.8	27.6	19.9		30.5	171	708	743
9/14/2021	34.2	30.4	33.1	16.7	24.4	134	995	659
3/1/2022							158	543
3/2/2022	30.8	25.7	19.5	16		186		
3/3/2022					20.4			
9/20/2022						160	740	750
9/21/2022	39	29	23	6.3	24			
2/28/2023						186	820	950
3/1/2023	45.3	27.4	21.4		25.8			
3/2/2023				8.12				
9/12/2023	47.5			6.48	25.2			
9/13/2023			42				1300	832

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023		28.8				165		
3/19/2024		28				167	810	
3/20/2024	45.4		34.5	12.3				
3/21/2024					29.4			1190
9/10/2024			24.3					
9/11/2024	42.1	26.2		5.75	23.2	149	781	852
3/18/2025	30.4		26					
3/19/2025						179	843	920
3/20/2025		24.3		11.5	21.9			
9/9/2025	24.9			14.3		140	824	784
9/10/2025		23.9	41		24.7			
3/10/2026	24.1					209		
3/11/2026		23.9	23.3	12.4			163	
3/12/2026					23.5			977

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					4.3	6.4		
8/31/2016		37	21	290				
10/25/2016							84	
11/30/2016		63	19	240	7.6	4.5	52	
2/15/2017					3	37	190	
2/16/2017		90	22	220				
5/31/2017					2.5	61	260	
6/1/2017	42							
6/2/2017		210	28	500				
8/2/2017	120							
8/15/2017					3.2		210	
8/16/2017						130		
8/17/2017	110	80	69	510				
4/4/2018	70.6							
5/8/2018	61.4							
6/19/2018					1.6	498	218	
6/20/2018	25.3	46 (J)	33					
6/21/2018				481				
9/25/2018					1	790		
9/26/2018							333 (D)	
9/27/2018	63.4	58.5 (J)	29.4	777				
11/6/2018	136			926		875	182	
11/7/2018		41.3 (J)	734		0.41 (J)			
3/6/2019			1220 (J)					
3/24/2019		131	413	1070	1.5	1170	413	
3/25/2019	137							
10/15/2019	105				0.54 (J)	<1		
10/16/2019		252					453	
10/17/2019			507	1230				
11/20/2019		132		1550				
11/21/2019						1070	428	
3/27/2020					<5	899	504	
3/28/2020	86.6	63.8	701	1090				
4/23/2020			552					936
6/16/2020			663	961				970
10/12/2020					<5			
10/13/2020	92.3					695	378	
10/14/2020			531 (D)	938		682		
10/15/2020		147						1060
1/4/2021		262						
3/2/2021					1.2	677		
3/3/2021							420	
3/4/2021	99.1	82.2	596	982				1060
7/1/2021						693		
9/13/2021					<5	680		
9/14/2021	96.2	459	490	819			460	971
3/1/2022		143	440					755
3/2/2022				702				
3/3/2022	50.6				<5	754	324	
6/28/2022			213					553
9/20/2022			320					820
9/21/2022	52	100		660	<5	270	330	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
2/28/2023					1.33		334	
3/1/2023	44.2							
3/2/2023		84.2	157	640		252		859
9/12/2023		139			1.18	160		
9/13/2023	27.1			620			300	
9/14/2023			263					767
3/19/2024					1.7		312	
3/20/2024	73.7					207		
3/21/2024		189	189	360				799
9/10/2024	103				0.462		323	
9/11/2024		148		296		180		752
9/12/2024			271					
3/17/2025					1.83	443		
3/18/2025							363	635
3/19/2025		399	549	404				
3/20/2025	41.8							
9/9/2025		560	775		0.343 (J)	563		
9/10/2025	25.8							505
9/11/2025				457			286	
3/10/2026	17.6	644	868			733	226	501
3/11/2026				566	1.28			

Time Series

Constituent: TDS (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	86				99			
11/30/2016	131				111			
2/15/2017	212				170			
5/31/2017		123	257					
6/1/2017	103				98			
6/2/2017				69				
8/2/2017		136	183	35				
8/15/2017			90					
8/16/2017	65	124						
8/17/2017				51	84			
4/4/2018			197	90				
4/5/2018		128						
5/8/2018			225	89				
5/9/2018		127						
6/19/2018	142	143	112	110				
6/20/2018					123			
9/25/2018			137					
9/26/2018	133	132		124	117			
11/6/2018			89					
11/7/2018	121	134		125	120			
3/25/2019	116	111	74	98	101			
10/15/2019				107				
10/16/2019	104	96	82		95			
11/7/2019						4140	10900	13500
11/18/2019						4030		
11/19/2019							10000	13300
12/4/2019							11000	13200
12/5/2019						3840		
12/17/2019							9860	
12/18/2019						3880		12500
1/8/2020							9760	12300
1/9/2020						3520		
1/21/2020						3280	10100	12000
2/4/2020						3220	10600	12300
2/13/2020						3580	10900	12400
3/26/2020	114							
3/27/2020		119	87	110	110	3090	14300	14600
10/12/2020			94			2920		
10/13/2020	113	118		63	115		6600	13900
3/2/2021				40				
3/3/2021	99	84	66		122	2620	11000	11400
9/14/2021	66	76	191	96	<25	2190	14600	10300
3/1/2022							4050	10500
3/2/2022	97	94	124	103		3100		
3/3/2022					104			
9/20/2022						2000	10000	8600
9/21/2022	100	90	110	38	78			
2/28/2023						2090	10400	8720
3/1/2023	78	73	67		56			
3/2/2023				35				
9/12/2023	80			20	42			
9/13/2023			274				15500	10300

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: TDS (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
9/14/2023		76				2040		
3/19/2024		50				1960	9800	
3/20/2024	84		137	65				
3/21/2024					51			7330
9/10/2024			79					
9/11/2024	70	64		28	54	1530	9180	8630
3/18/2025	86		70					
3/19/2025						1930	10100	9900
3/20/2025		69		63	61			
9/9/2025	129			107		1640	10900	8360
9/10/2025		85	282		54			
3/10/2026	70					2260		
3/11/2026		83	68	75			2710	
3/12/2026					57			8860

Time Series

Constituent: TDS (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					1910	1310		
8/31/2016		3620	4160	5100				
10/25/2016							2900	
11/30/2016		4030	3950	4680	1910	1050	3970	
2/15/2017					1870	1440	3820	
2/16/2017		4080	4600	5080				
5/31/2017					1920	1740	5050	
6/1/2017	97							
6/2/2017		5560	4470	8000				
8/2/2017	538							
8/15/2017					1840		4820	
8/16/2017						3010		
8/17/2017	445	4620	5450	8320				
4/4/2018	365							
5/8/2018	304							
6/19/2018					1820	8630	5640	
6/20/2018	114	3370	4940					
6/21/2018				7500				
9/25/2018					1760	10700		
9/26/2018							6770 (D)	
9/27/2018	255	2360	4480	10200				
11/6/2018	388			11000		11100	4160	
11/7/2018		2230	15100		1800			
3/6/2019			19000					
3/24/2019		1450	13700	13700	1770	14200	6840	
3/25/2019	327							
10/15/2019	237				1730	15400		
10/16/2019		2860					7740	
10/17/2019			16100	13200				
11/20/2019		2640		16700				
11/21/2019						15800	7720	
3/27/2020					1970	16400	10200	
3/28/2020	284	1470	18800	18300				
6/16/2020			17800	17900				20100
10/12/2020					1560			
10/13/2020	<25					15600	8750	
10/14/2020			15200	18400				
10/15/2020		5100						19300
1/4/2021		7750						
3/2/2021					1430	12000		
3/3/2021							8830	
3/4/2021	285	1700	14200	17100				19000
7/1/2021						11200		
9/13/2021					1450	11400		
9/14/2021	193	8020	11800	13400			8820	16400
3/1/2022		3780	9040					15600
3/2/2022				12600				
3/3/2022	146				1400	11500	8120	
6/28/2022			6140					15400
9/20/2022			3900					13000
9/21/2022	180	2100		9400	1300	7400	6200	
2/28/2023					1290		6810	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: TDS (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/1/2023	142							
3/2/2023		1710	3120	10500		3280		12300
9/12/2023		2940			1230	2720		
9/13/2023	51			7440			6310	
9/14/2023			4240					10600
3/19/2024					1210		5920	
3/20/2024	255					2480		
3/21/2024		3320	3820	6050				9680
9/10/2024	316				1230		5490	
9/11/2024		3020		4640		2480		8970
9/12/2024			5340					
3/17/2025					1220	6320		
3/18/2025							5200	9000
3/19/2025		7440	8300	5420				
3/20/2025	152							
9/9/2025		9300	11700		1130	8750		
9/10/2025	106							8230
9/11/2025				5990			5530	
3/10/2026	54	9900	12500			10700	4830	8500
3/11/2026				8120	1150			

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016	<0.002				<0.002			
11/30/2016	<0.002				<0.002			
2/15/2017	<0.002				<0.002			
5/31/2017		<0.002	<0.002					
6/1/2017	<0.002				6E-05 (J)			
6/2/2017				<0.002				
8/2/2017		<0.002	<0.002	<0.002				
8/15/2017			<0.002					
8/16/2017	<0.002	<0.002						
8/17/2017				<0.002	7E-05 (J)			
4/4/2018			<0.002	<0.002				
4/5/2018		<0.002						
5/8/2018			<0.002	<0.002				
5/9/2018		<0.002						
6/19/2018	<0.002	<0.002	<0.002	<0.002				
6/20/2018					<0.002			
9/25/2018			<0.002					
9/26/2018	<0.002	<0.002		<0.002	<0.002			
11/6/2018			<0.002					
11/7/2018	<0.002	<0.002		<0.002	<0.002			
8/27/2019	<0.002			<0.002	6.6E-05 (J)			
8/28/2019		<0.002	<0.002					
10/15/2019				<0.002				
10/16/2019	<0.002	<0.002	<0.002		<0.002			
11/7/2019						<0.002	<0.002	<0.002
11/18/2019						<0.002		
11/19/2019							<0.002	<0.002
12/4/2019							<0.002	<0.002
12/5/2019						<0.002		
12/17/2019							<0.002	
12/18/2019						<0.002		<0.002
1/8/2020							<0.002	<0.002
1/9/2020						<0.002		
1/21/2020						<0.002	<0.002	<0.002
2/4/2020						<0.002	<0.002	<0.002
2/13/2020						<0.002	<0.002	<0.002
3/26/2020	<0.002							
3/27/2020		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
9/14/2021	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
3/1/2022							<0.002	<0.002
3/2/2022	<0.002	<0.002	<0.002	<0.002		<0.002		
3/3/2022					6.6E-05 (J)			
9/20/2022						<0.002	<0.002	<0.002
9/21/2022	<0.002	<0.002	<0.002	<0.002	<0.002			
2/28/2023						<0.002	<0.002	<0.002
3/1/2023	<0.002	<0.002	<0.002		<0.002			
3/2/2023				<0.002				
9/12/2023	<0.002			<0.002	<0.002			
9/13/2023			<0.002				<0.002	<0.002
9/14/2023		<0.002				<0.002		
3/19/2024		<0.002				<0.002	<0.002	
3/20/2024	<0.002		<0.002	<0.002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-02 (bg)	MCM-11 (bg)	MCM-15 (bg)	MCM-16 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
3/21/2024					<0.002			<0.002
9/10/2024			<0.002					
9/11/2024	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	<0.002
3/18/2025	<0.002		<0.002					
3/19/2025						<0.002	<0.002	<0.002
3/20/2025		<0.002		<0.002	<0.002			
9/9/2025	<0.002			<0.002		<0.002	<0.002	<0.002
9/10/2025		<0.002	<0.002		<0.002			
3/10/2026	<0.002					<0.002		
3/11/2026		<0.002	<0.002	<0.002			<0.002	
3/12/2026					<0.002			<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.002	<0.002		
8/31/2016		<0.002	<0.002	<0.002				
10/25/2016							<0.002	
11/30/2016		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
2/15/2017					<0.002	<0.002	<0.002	
2/16/2017		<0.002	<0.002	<0.002				
5/31/2017					<0.002	<0.002	<0.002	
6/1/2017	<0.002							
6/2/2017		<0.002	<0.002	<0.002				
8/2/2017	<0.002							
8/15/2017					<0.002		<0.002	
8/16/2017						<0.002		
8/17/2017	<0.002	<0.002	<0.002	<0.002				
4/4/2018	<0.002							
5/8/2018	<0.002							
6/19/2018					<0.002	<0.002	<0.002	
6/20/2018	<0.002	<0.002	<0.002					
6/21/2018				<0.002				
9/25/2018					<0.002	<0.002		
9/26/2018							<0.002	
9/27/2018	<0.002	<0.002	<0.002	<0.002				
11/6/2018	<0.002			<0.002		<0.002	<0.002	
11/7/2018		<0.002	<0.002		<0.002			
3/6/2019			<0.002					
8/26/2019						<0.002		
8/27/2019	<0.002				<0.002		<0.002	
8/28/2019		<0.002	<0.002	<0.002				
10/15/2019	<0.002				<0.002	<0.002		
10/16/2019		<0.002					<0.002	
10/17/2019			7.6E-05 (J)	<0.002				
3/27/2020					<0.002	<0.002	<0.002	
3/28/2020	<0.002	<0.002	<0.002	<0.002				
9/13/2021					<0.002	<0.002		
9/14/2021	<0.002	<0.002	<0.002	<0.002			<0.002	<0.002
3/1/2022		<0.002	<0.002					<0.002
3/2/2022				<0.002				
3/3/2022	<0.002				<0.002	<0.002	<0.002	
9/20/2022			<0.002					<0.002
9/21/2022	<0.002	<0.002		<0.002	<0.002	<0.002	<0.002	
2/28/2023					<0.002		<0.002	
3/1/2023	<0.002							
3/2/2023		<0.002	<0.002	<0.002		<0.002		<0.002
9/12/2023		<0.002			<0.002	<0.002		
9/13/2023	<0.002			<0.002			<0.002	
9/14/2023			<0.002					<0.002
3/19/2024					<0.002		<0.002	
3/20/2024	<0.002					<0.002		
3/21/2024		<0.002	<0.002	<0.002				<0.002
9/10/2024	<0.002				<0.002		<0.002	
9/11/2024		<0.002		<0.002		<0.002		<0.002
9/12/2024			<0.002					
3/17/2025					<0.002	<0.002		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/18/2025							<0.002	<0.002
3/19/2025		<0.002	<0.002	<0.002				
3/20/2025	<0.002							
9/9/2025		<0.002	<0.002		<0.002	<0.002		
9/10/2025	<0.002							<0.002
9/11/2025				<0.002			<0.002	
3/10/2026	<0.002	<0.002	<0.002			<0.002	<0.002	<0.002
3/11/2026				<0.002	<0.002			

ND substitution: RL or RL/2 if <15% NDs.

FIGURE B.

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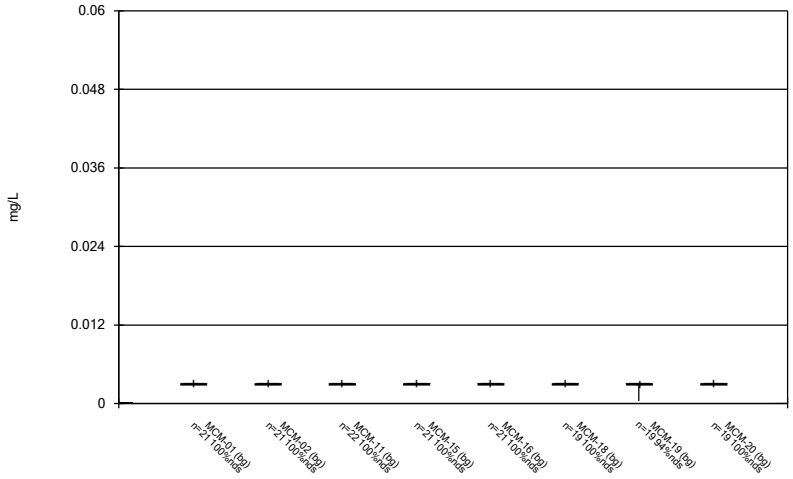
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

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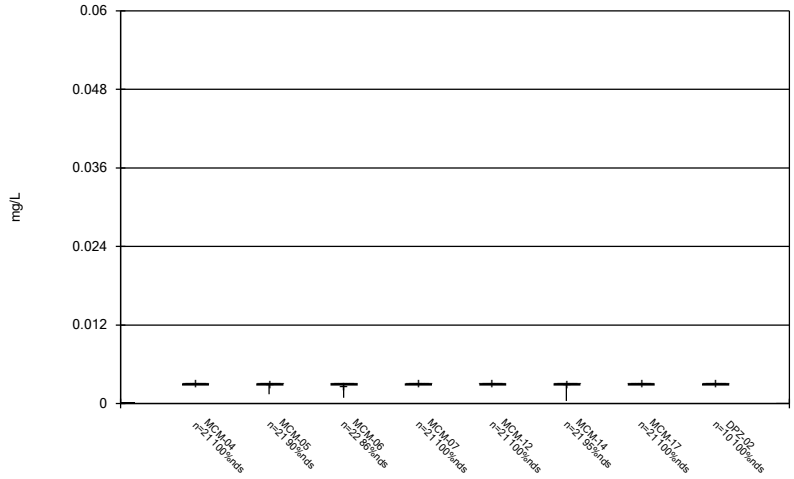
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

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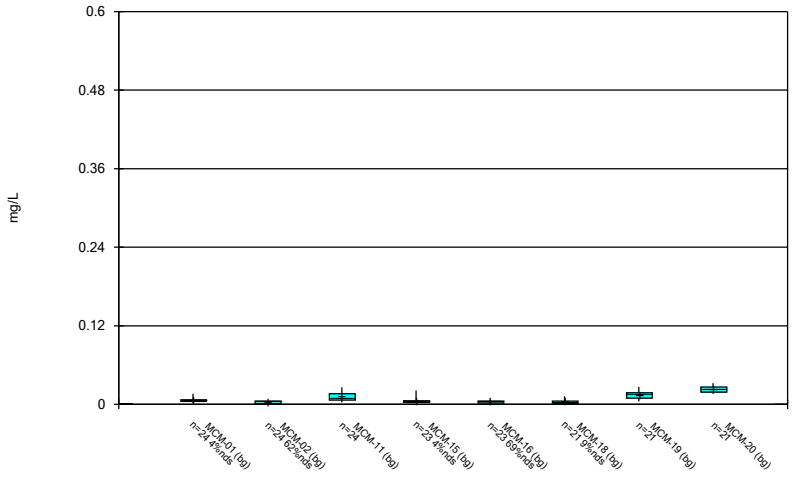
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

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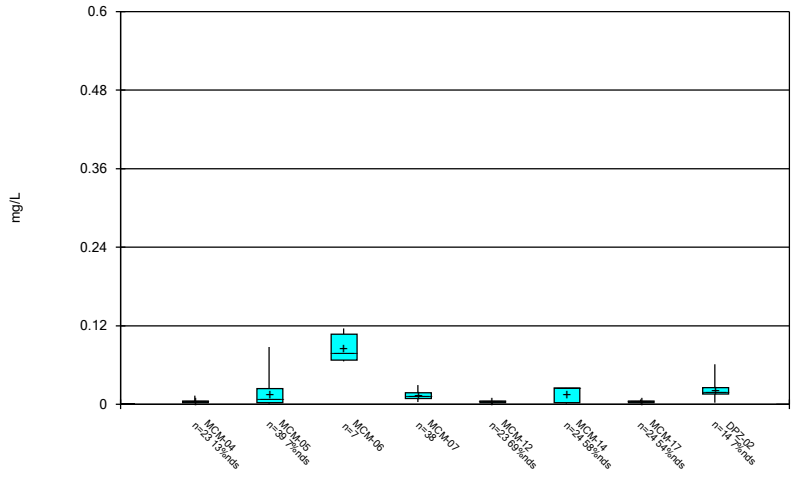
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

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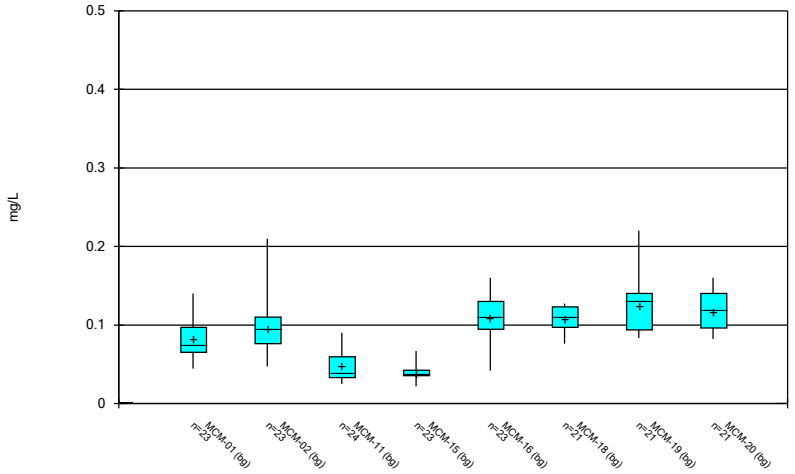
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

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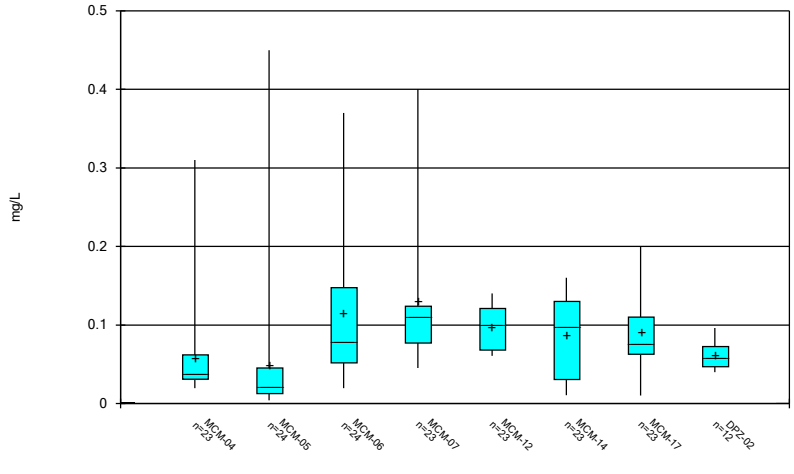
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

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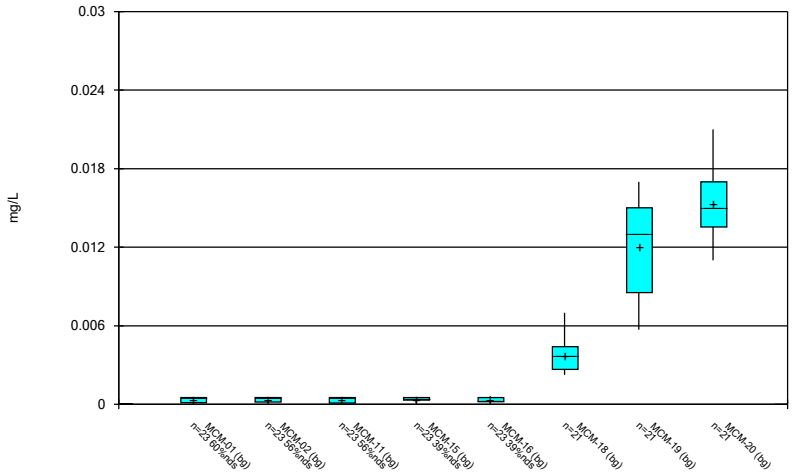
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/20/2026 12:46 PM

Plant McManus Client: Southern Company Data: McManus AP1

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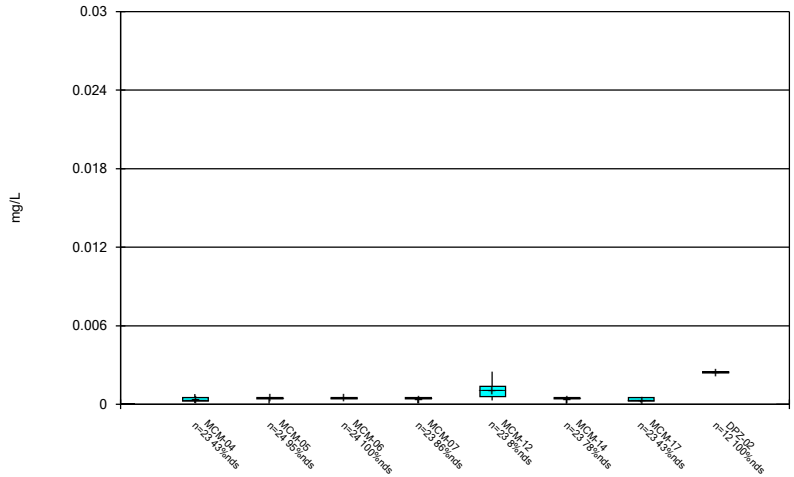
Box & Whiskers Plot



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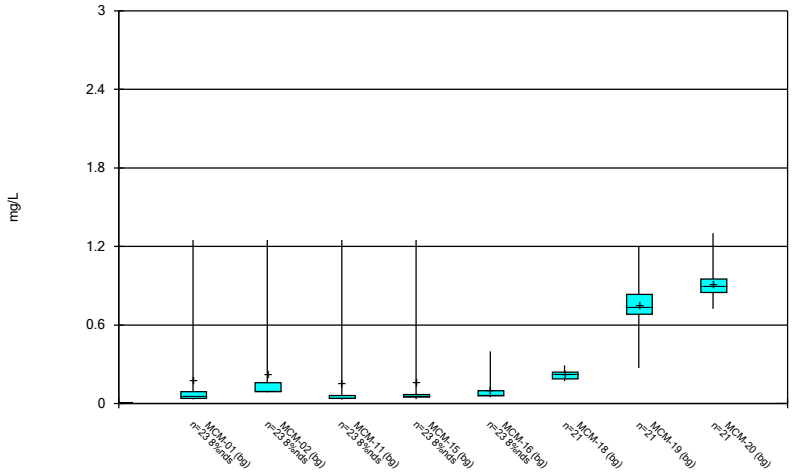
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant McManus Client: Southern Company Data: McManus AP1

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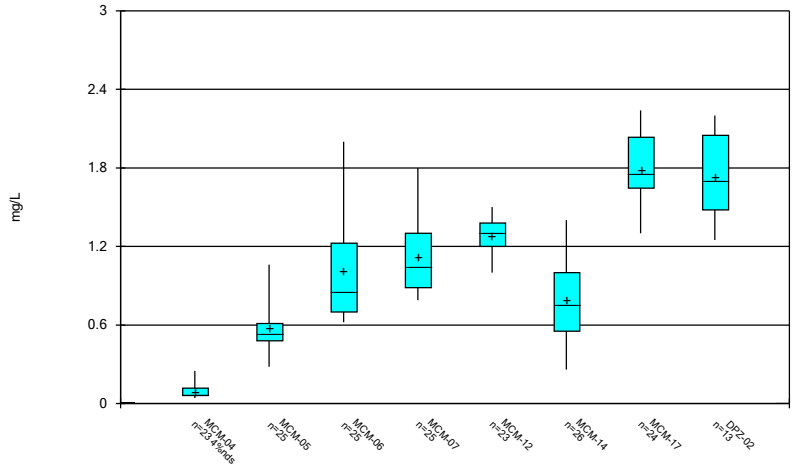
Box & Whiskers Plot



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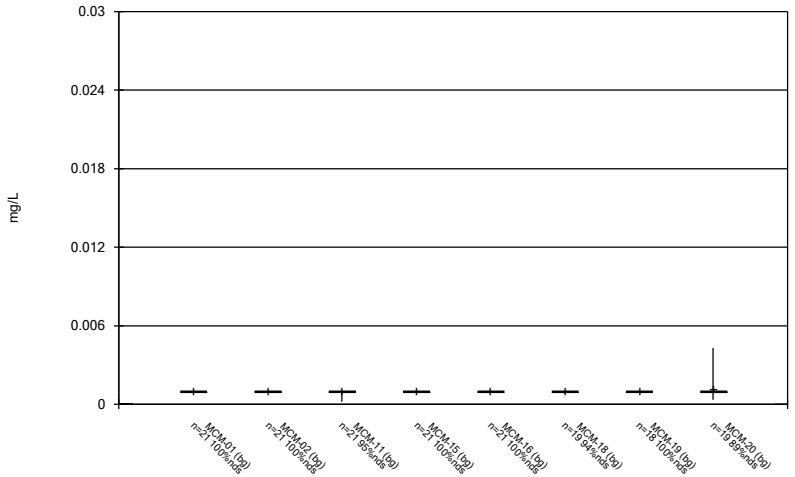
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

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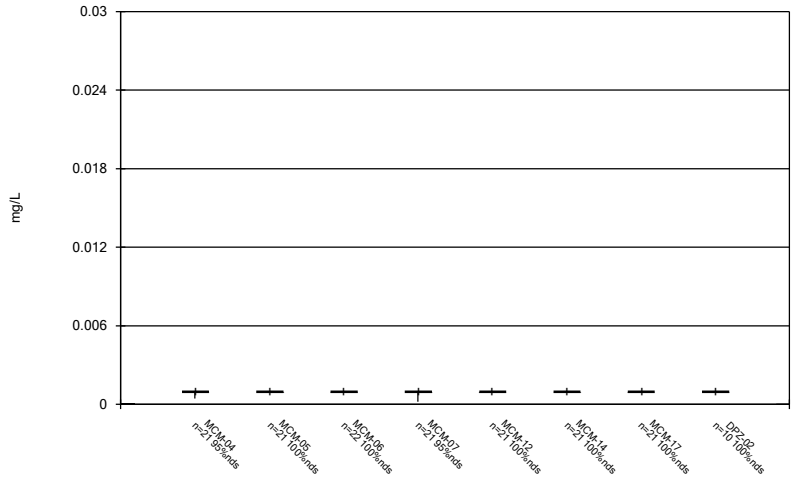
Box & Whiskers Plot



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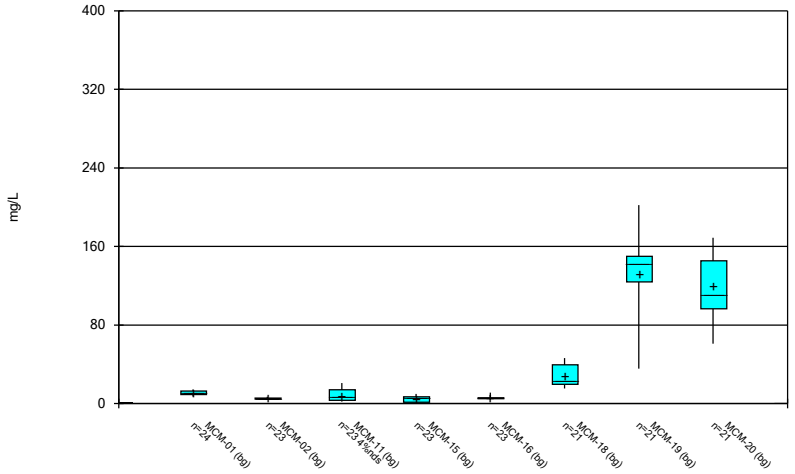
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

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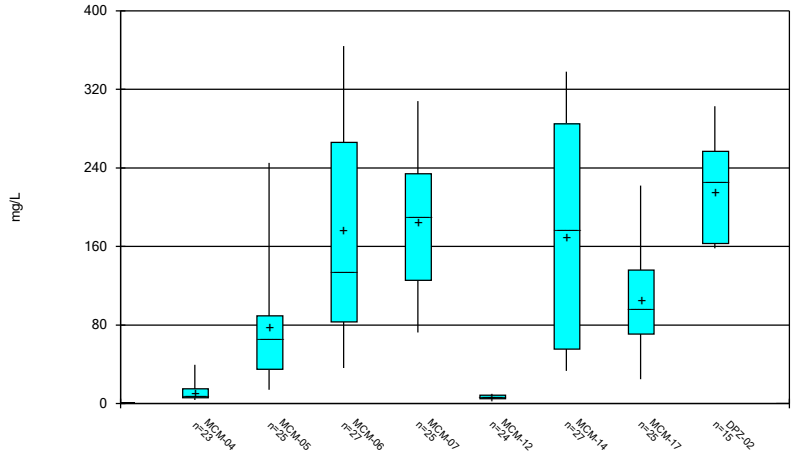
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

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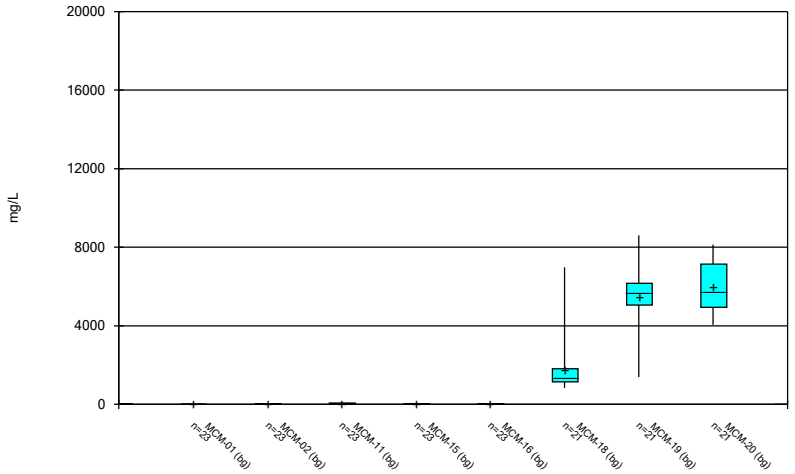
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

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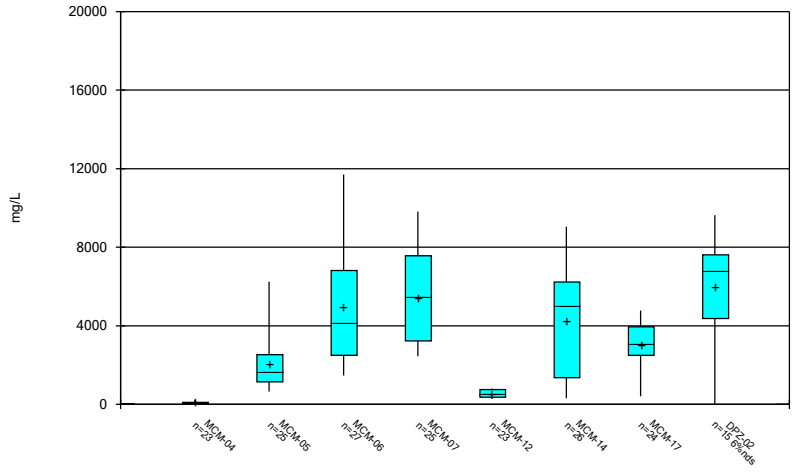
Box & Whiskers Plot



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Plant McManus Client: Southern Company Data: McManus AP1

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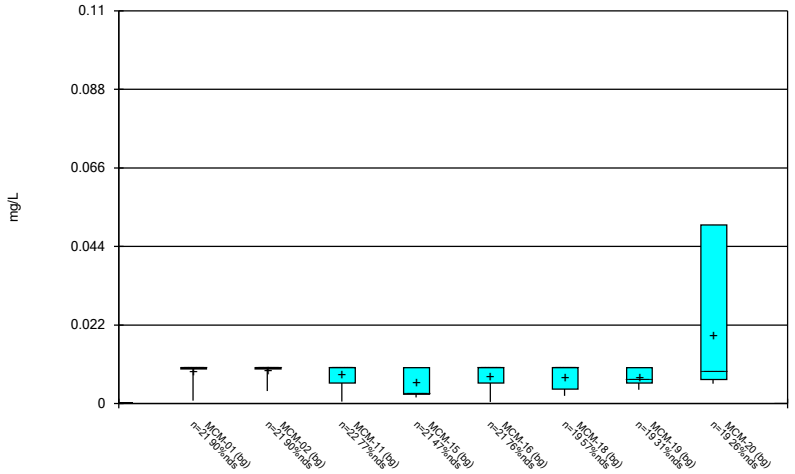
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

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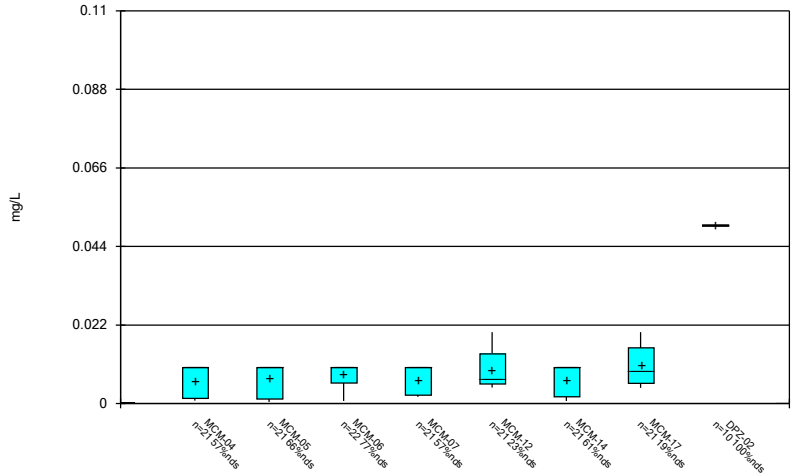
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

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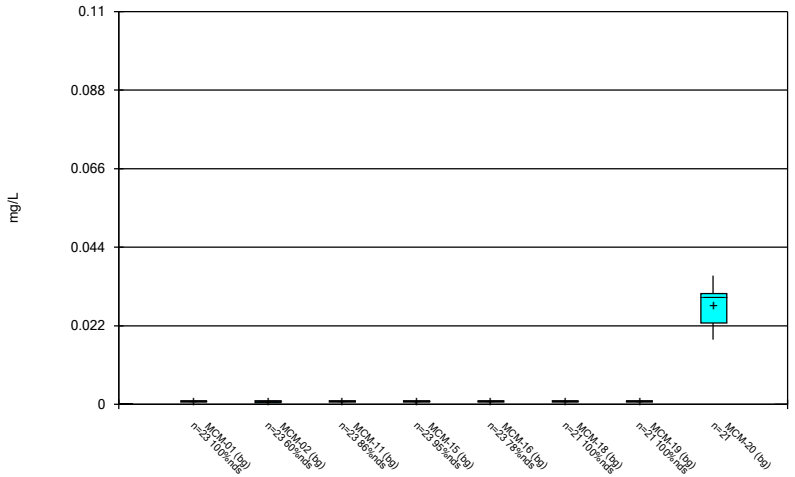
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

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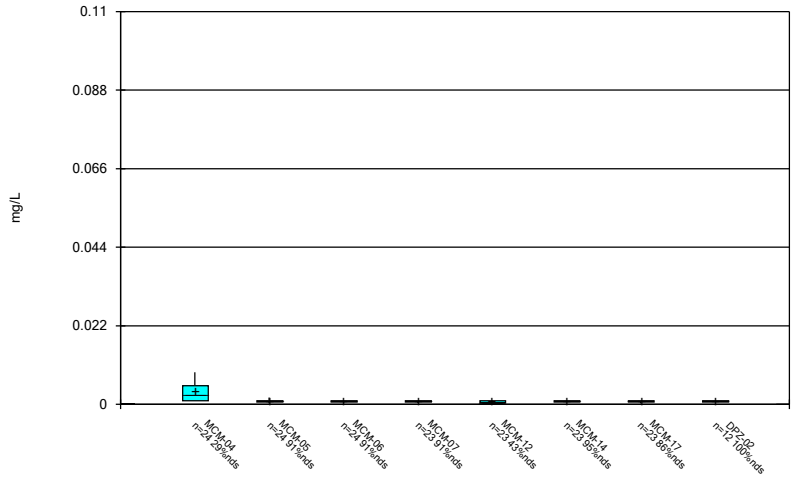
Box & Whiskers Plot

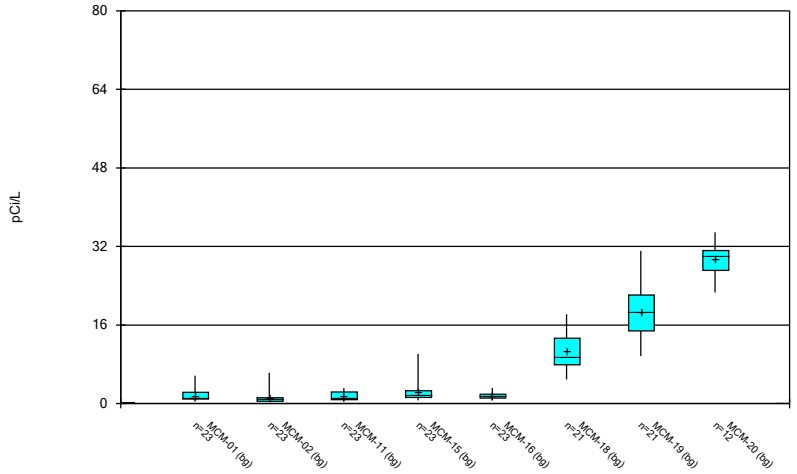


Constituent: Cobalt Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

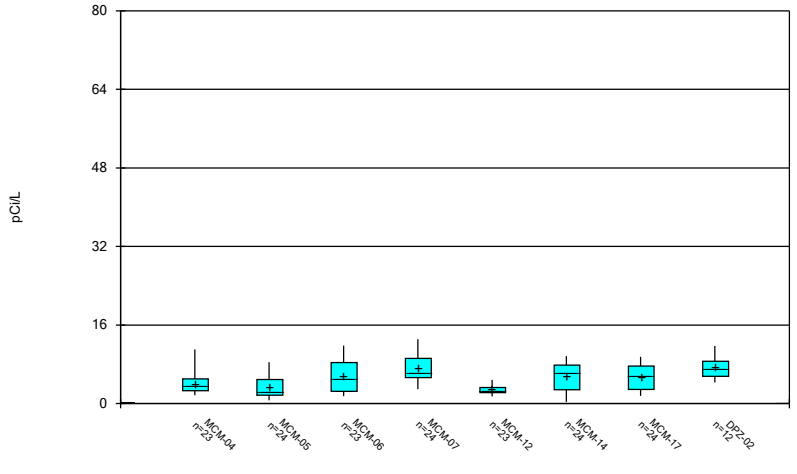


Constituent: Combined Radium 226 + 228 Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

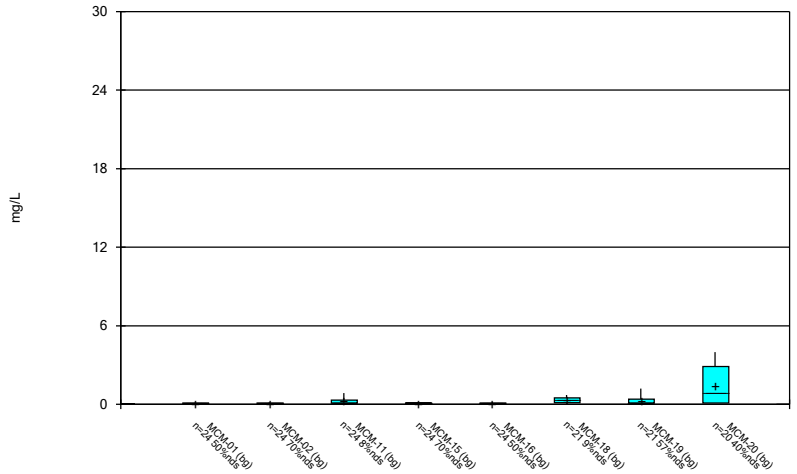


Constituent: Combined Radium 226 + 228 Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

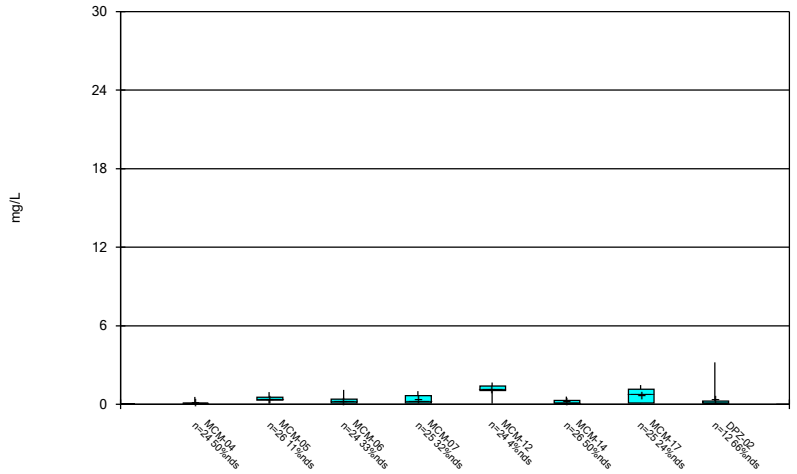


Constituent: Fluoride Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

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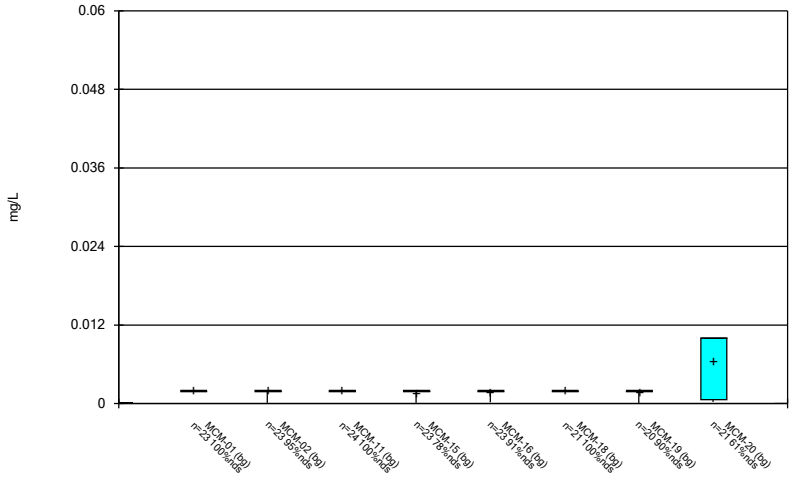
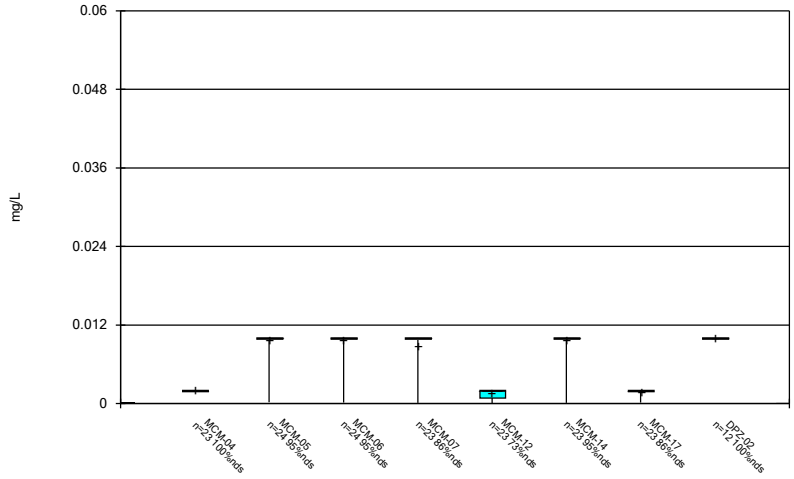


Constituent: Lead Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Lead Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

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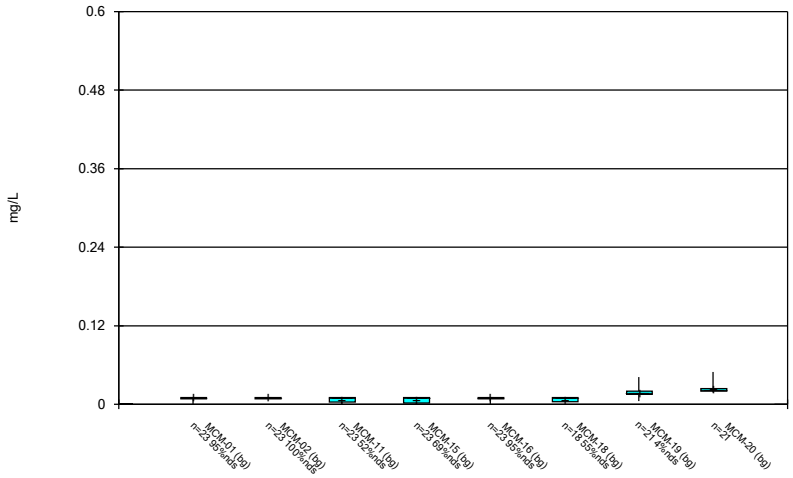
Box & Whiskers Plot

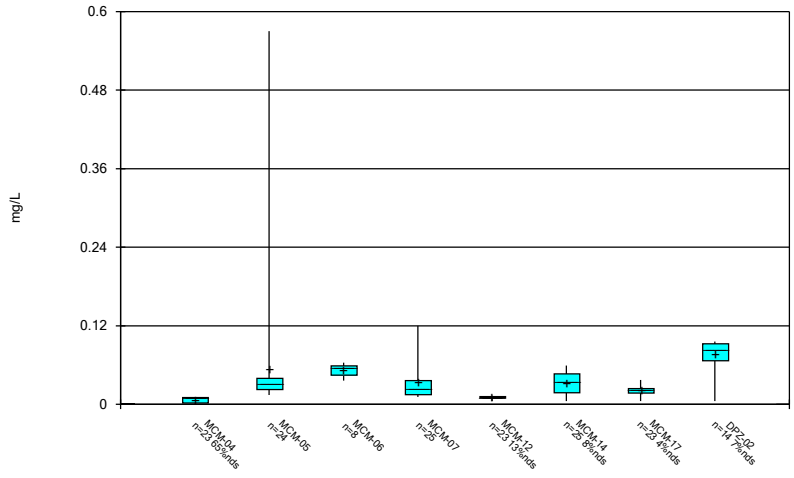


Constituent: Lithium Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



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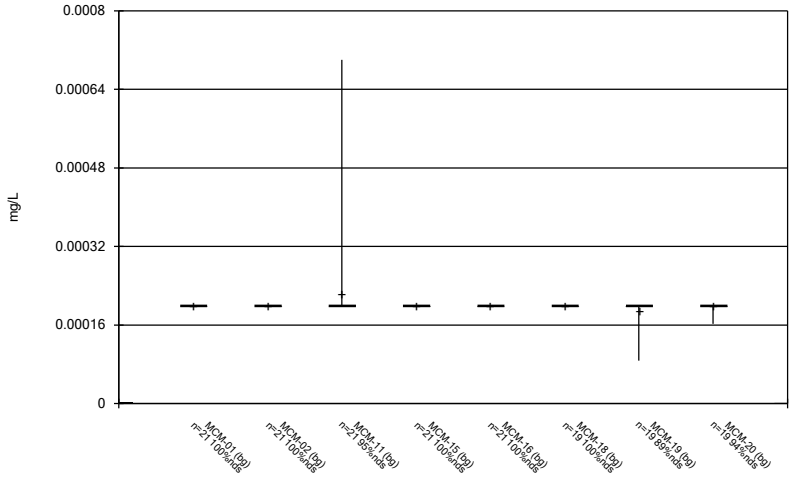
Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

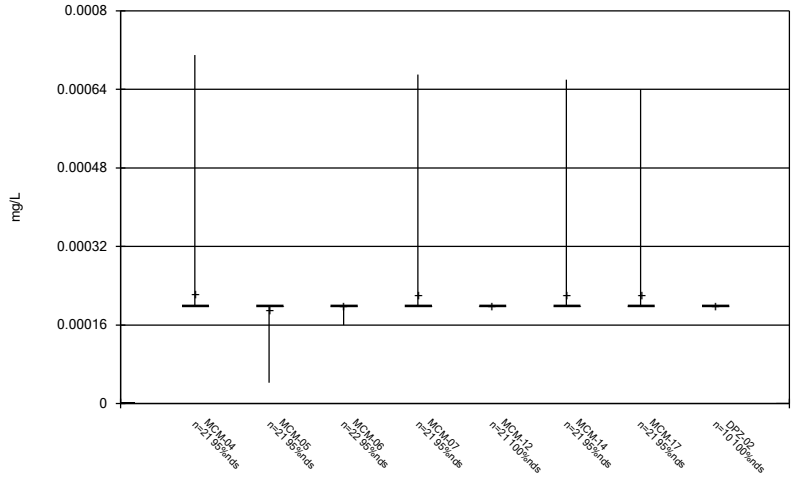


Constituent: Mercury Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



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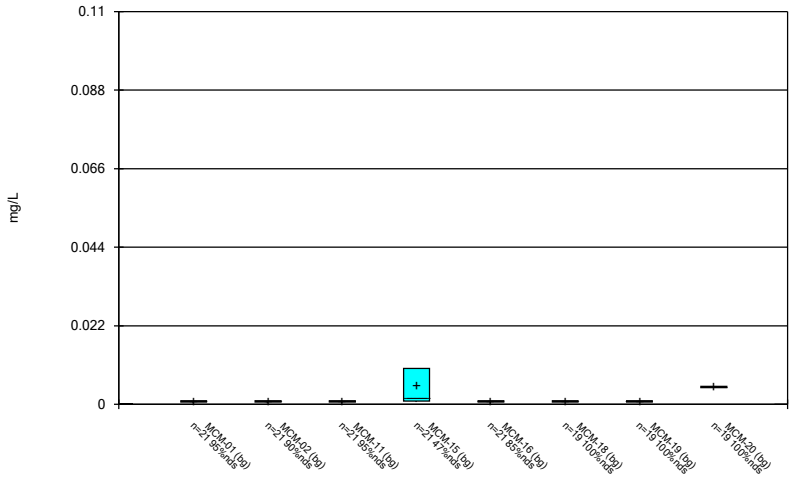
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

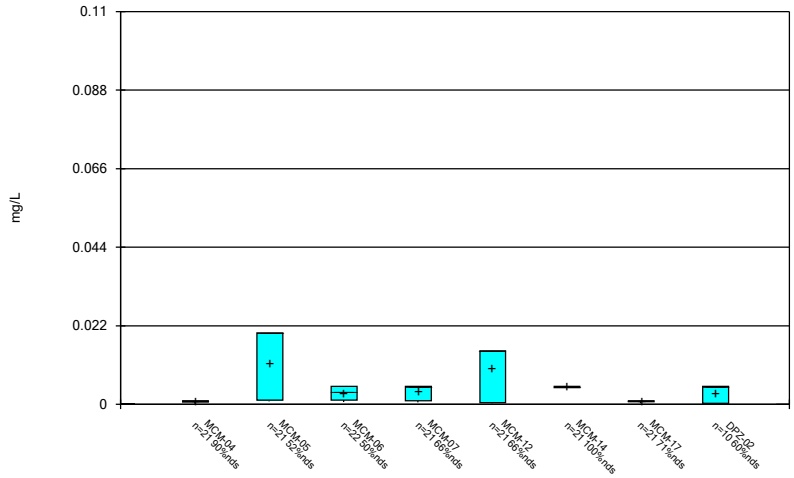


Constituent: Molybdenum Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

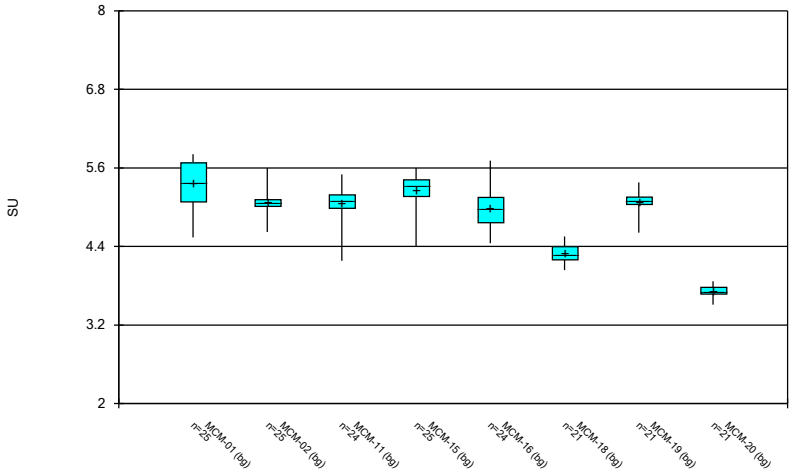


Constituent: Molybdenum Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: pH, Field Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

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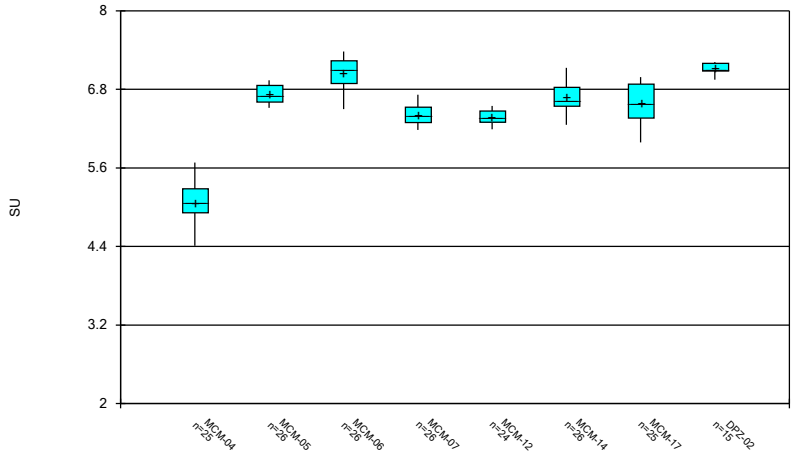
Box & Whiskers Plot

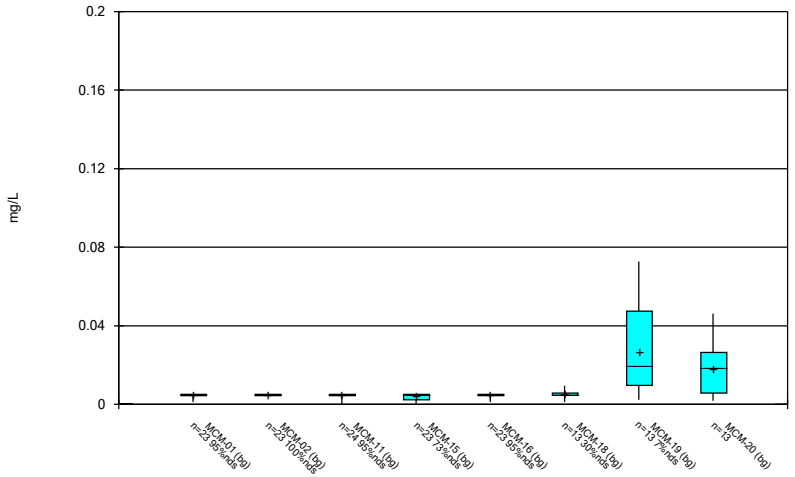


Constituent: pH, Field Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

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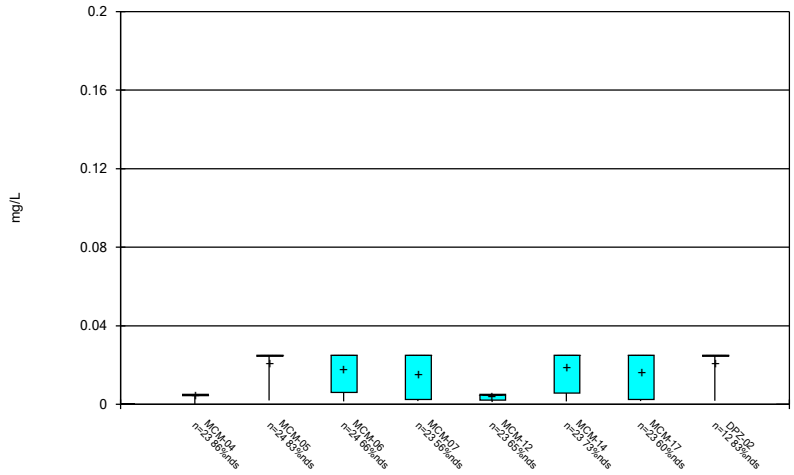
Box & Whiskers Plot

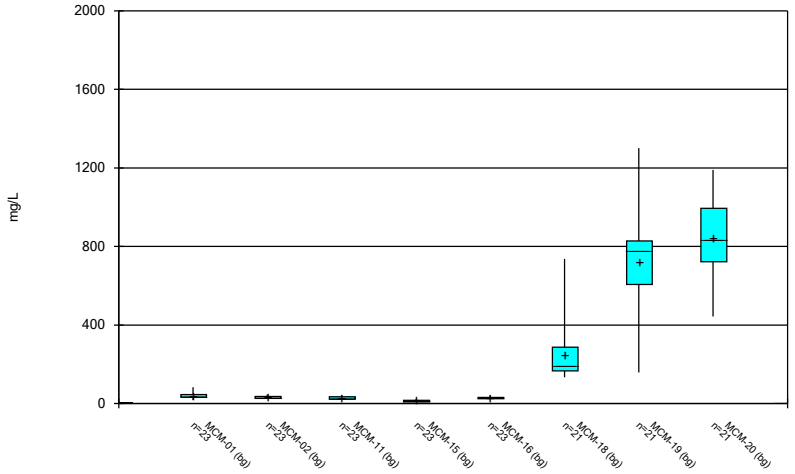


Constituent: Selenium Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

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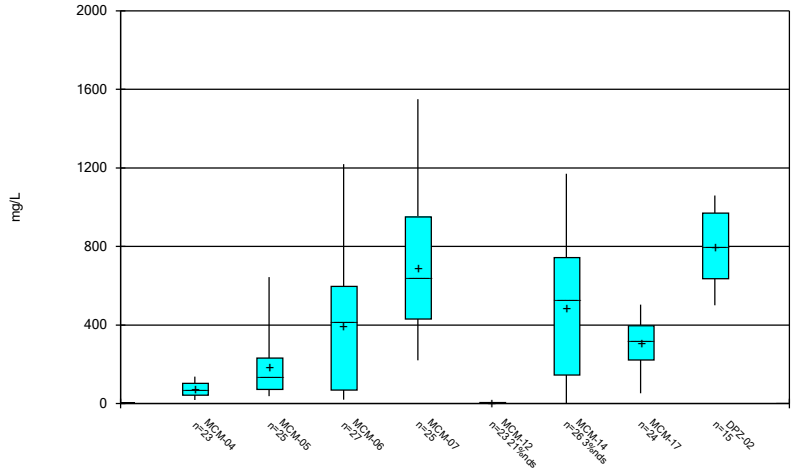
Box & Whiskers Plot



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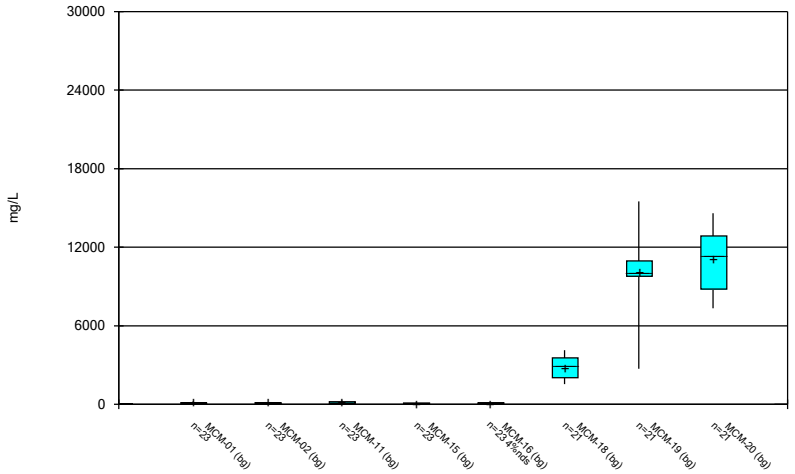
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

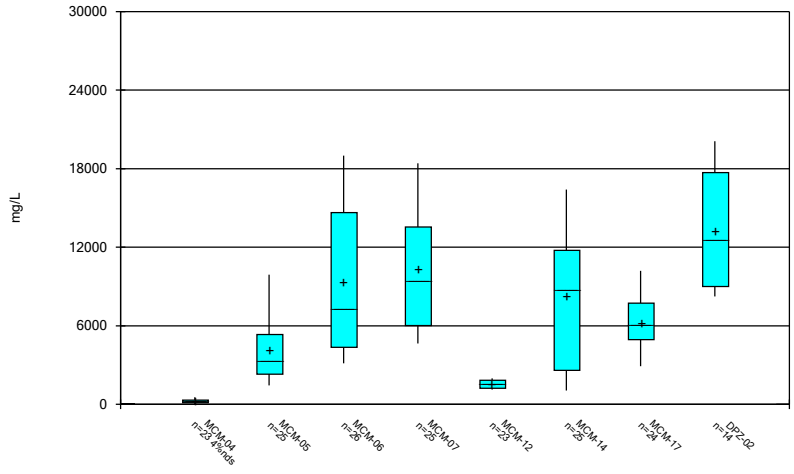


Constituent: TDS Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

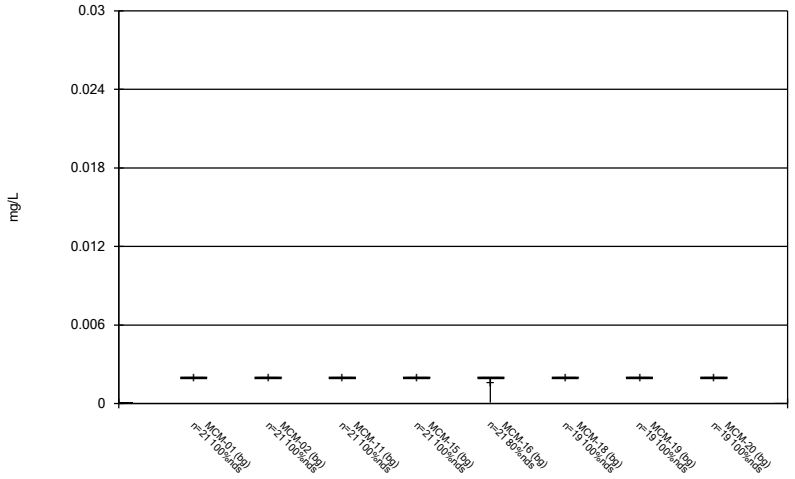


Constituent: TDS Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

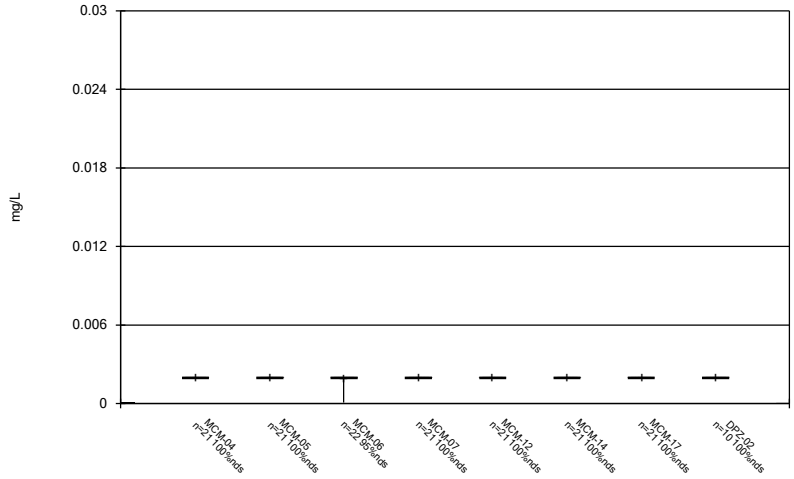


Constituent: Thallium Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/20/2026 12:47 PM

Plant McManus Client: Southern Company Data: McManus AP1

FIGURE C.

Outlier Summary

Plant McManus Client: Southern Company Data: McManus AP1 Printed 4/20/2026, 12:57 PM

	MCM-19 Cadmium (mg/L)	MCM-20 Fluoride (mg/L)	MCM-06 Fluoride (mg/L)	MCM-19 Lead (mg/L)	MCM-18 Lithium (mg/L)
11/7/2018			10.3 (O)		
11/18/2019					<0.1 (O)
1/21/2020					<0.15 (O)
2/4/2020					<0.3 (O)
2/13/2020				<0.025 (O)	
9/20/2022	0.0083 (O)	4.3 (JO)			

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 4/16/2026, 3:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**MCM-12**	**1.3**	**n/a**	**3/11/2026**	**1.31**	**Yes**	**178**	**n/a**	**n/a**	**5.618**	**n/a**	**n/a**	**0.00006218**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**MCM-17**	**1.3**	**n/a**	**3/10/2026**	**1.72**	**Yes**	**178**	**n/a**	**n/a**	**5.618**	**n/a**	**n/a**	**0.00006218**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**MCM-05**	**202**	**n/a**	**3/10/2026**	**240**	**Yes**	**179**	**n/a**	**n/a**	**0.5587**	**n/a**	**n/a**	**0.00006139**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**MCM-06**	**202**	**n/a**	**3/10/2026**	**245**	**Yes**	**179**	**n/a**	**n/a**	**0.5587**	**n/a**	**n/a**	**0.00006139**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**MCM-14**	**202**	**n/a**	**3/10/2026**	**206**	**Yes**	**179**	**n/a**	**n/a**	**0.5587**	**n/a**	**n/a**	**0.00006139**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-05**	**5.81**	**3.51**	**3/10/2026**	**6.72**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-06**	**5.81**	**3.51**	**3/10/2026**	**6.5**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-07**	**5.81**	**3.51**	**3/11/2026**	**6.55**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-12**	**5.81**	**3.51**	**3/11/2026**	**6.29**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-14**	**5.81**	**3.51**	**3/10/2026**	**6.26**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-17**	**5.81**	**3.51**	**3/10/2026**	**6.06**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 4/16/2026, 3:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	MCM-04	1.3	n/a	3/10/2026	0.0411	No	178	n/a	n/a	5.618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-05	1.3	n/a	3/10/2026	1.06	No	178	n/a	n/a	5.618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-06	1.3	n/a	3/10/2026	1.15	No	178	n/a	n/a	5.618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Boron (mg/L)	MCM-07	1.3	n/a	3/11/2026	0.88	No	178	n/a	n/a	5.618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Boron (mg/L)	**MCM-12**	**1.3**	**n/a**	**3/11/2026**	**1.31**	**Yes**	**178**	**n/a**	**n/a**	**5.618**	**n/a**	**n/a**	**0.00006218**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	MCM-14	1.3	n/a	3/10/2026	0.81	No	178	n/a	n/a	5.618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Boron (mg/L)	**MCM-17**	**1.3**	**n/a**	**3/10/2026**	**1.72**	**Yes**	**178**	**n/a**	**n/a**	**5.618**	**n/a**	**n/a**	**0.00006218**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	MCM-04	202	n/a	3/10/2026	4.03	No	179	n/a	n/a	0.5587	n/a	n/a	0.00006139	NP Inter (normality) 1 of 2
Calcium (mg/L)	**MCM-05**	**202**	**n/a**	**3/10/2026**	**240**	**Yes**	**179**	**n/a**	**n/a**	**0.5587**	**n/a**	**n/a**	**0.00006139**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**MCM-06**	**202**	**n/a**	**3/10/2026**	**245**	**Yes**	**179**	**n/a**	**n/a**	**0.5587**	**n/a**	**n/a**	**0.00006139**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	MCM-07	202	n/a	3/11/2026	168	No	179	n/a	n/a	0.5587	n/a	n/a	0.00006139	NP Inter (normality) 1 of 2
Calcium (mg/L)	MCM-12	202	n/a	3/11/2026	4.55	No	179	n/a	n/a	0.5587	n/a	n/a	0.00006139	NP Inter (normality) 1 of 2
Calcium (mg/L)	**MCM-14**	**202**	**n/a**	**3/10/2026**	**206**	**Yes**	**179**	**n/a**	**n/a**	**0.5587**	**n/a**	**n/a**	**0.00006139**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	MCM-17	202	n/a	3/10/2026	46.2	No	179	n/a	n/a	0.5587	n/a	n/a	0.00006139	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-04	8600	n/a	3/10/2026	10	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-05	8600	n/a	3/10/2026	6240	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-06	8600	n/a	3/10/2026	6820	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-07	8600	n/a	3/11/2026	3760	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-12	8600	n/a	3/11/2026	285	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-14	8600	n/a	3/10/2026	5360	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Chloride (mg/L)	MCM-17	8600	n/a	3/10/2026	2450	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-04	3.98	n/a	3/10/2026	0.0536J	No	182	n/a	n/a	45.05	n/a	n/a	0.00005945	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-05	3.98	n/a	3/10/2026	0.486J	No	182	n/a	n/a	45.05	n/a	n/a	0.00005945	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-06	3.98	n/a	3/10/2026	0.28J	No	182	n/a	n/a	45.05	n/a	n/a	0.00005945	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-07	3.98	n/a	3/11/2026	0.603	No	182	n/a	n/a	45.05	n/a	n/a	0.00005945	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-12	3.98	n/a	3/11/2026	1.58	No	182	n/a	n/a	45.05	n/a	n/a	0.00005945	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-14	3.98	n/a	3/10/2026	0.224J	No	182	n/a	n/a	45.05	n/a	n/a	0.00005945	NP Inter (normality) 1 of 2
Fluoride (mg/L)	MCM-17	3.98	n/a	3/10/2026	0.858	No	182	n/a	n/a	45.05	n/a	n/a	0.00005945	NP Inter (normality) 1 of 2
pH, Field (SU)	MCM-04	5.81	3.51	3/10/2026	5.07	No	186	n/a	n/a	0	n/a	n/a	0.0001143	NP Inter (normality) 1 of 2
pH, Field (SU)	**MCM-05**	**5.81**	**3.51**	**3/10/2026**	**6.72**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-06**	**5.81**	**3.51**	**3/10/2026**	**6.5**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-07**	**5.81**	**3.51**	**3/11/2026**	**6.55**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-12**	**5.81**	**3.51**	**3/11/2026**	**6.29**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-14**	**5.81**	**3.51**	**3/10/2026**	**6.26**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
pH, Field (SU)	**MCM-17**	**5.81**	**3.51**	**3/10/2026**	**6.06**	**Yes**	**186**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001143**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	MCM-04	1300	n/a	3/10/2026	17.6	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-05	1300	n/a	3/10/2026	644	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-06	1300	n/a	3/10/2026	868	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-07	1300	n/a	3/11/2026	566	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-12	1300	n/a	3/11/2026	1.28	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-14	1300	n/a	3/10/2026	733	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
Sulfate (mg/L)	MCM-17	1300	n/a	3/10/2026	226	No	178	n/a	n/a	0	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-04	15500	n/a	3/10/2026	54	No	178	n/a	n/a	0.5618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-05	15500	n/a	3/10/2026	9900	No	178	n/a	n/a	0.5618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-06	15500	n/a	3/10/2026	12500	No	178	n/a	n/a	0.5618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-07	15500	n/a	3/11/2026	8120	No	178	n/a	n/a	0.5618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-12	15500	n/a	3/11/2026	1150	No	178	n/a	n/a	0.5618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-14	15500	n/a	3/10/2026	10700	No	178	n/a	n/a	0.5618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2
TDS (mg/L)	MCM-17	15500	n/a	3/10/2026	4830	No	178	n/a	n/a	0.5618	n/a	n/a	0.00006218	NP Inter (normality) 1 of 2

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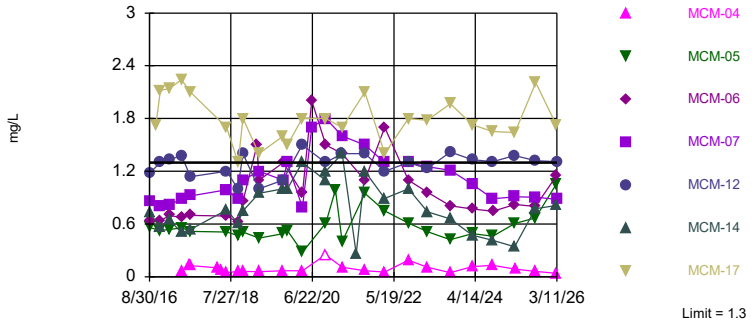
Hollow symbols indicate censored values.

Exceeds Limit: MCM-12, MCM-17

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 178 background values. 5.618% NDs. Annual per-constituent alpha = 0.0008702. Individual comparison alpha = 0.00006218 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 4/16/2026 3:52 PM View: Appendix III - Interwell PLs
Plant McManus Client: Southern Company Data: McManus AP1

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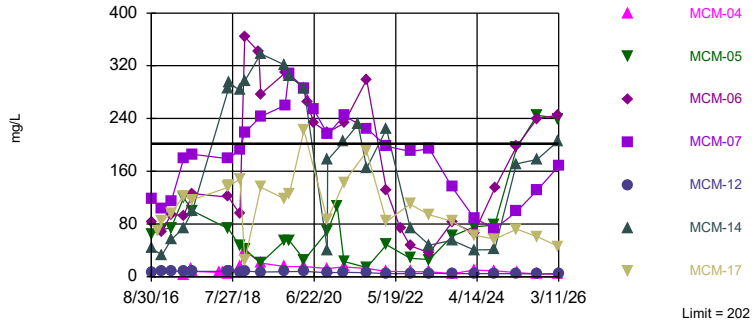
Exceeds Limit: MCM-05, MCM-06, MCM-14

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 179 background values. 0.5587% NDs. Annual per-constituent alpha = 0.0008591. Individual comparison alpha = 0.00006139 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 4/16/2026 3:52 PM View: Appendix III - Interwell PLs
Plant McManus Client: Southern Company Data: McManus AP1

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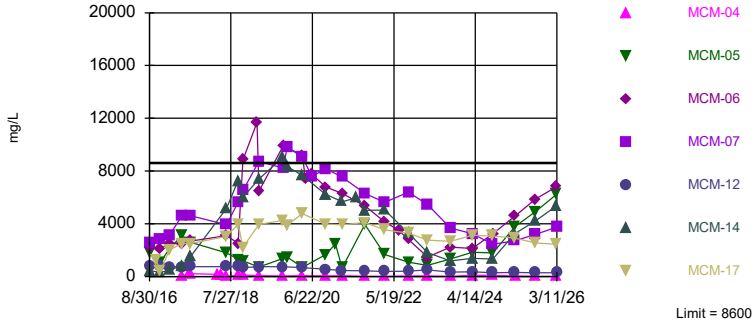
Within Limit

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 178 background values. Annual per-constituent alpha = 0.0008702. Individual comparison alpha = 0.00006218 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 4/16/2026 3:52 PM View: Appendix III - Interwell PLs
Plant McManus Client: Southern Company Data: McManus AP1

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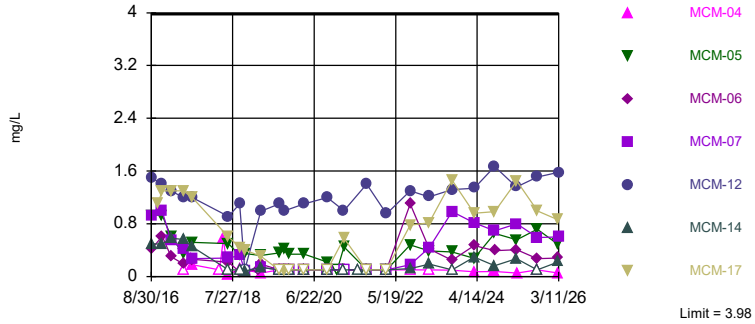
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 182 background values. 45.05% NDs. Annual per-constituent alpha = 0.000832. Individual comparison alpha = 0.00005945 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 4/16/2026 3:52 PM View: Appendix III - Interwell PLs
Plant McManus Client: Southern Company Data: McManus AP1

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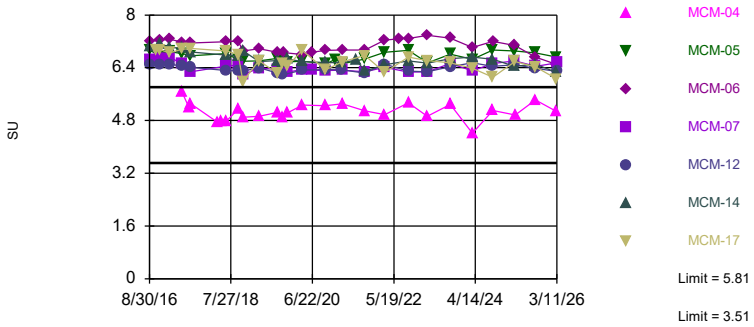
Exceeds Limits: MCM-05, MCM-06, MCM-07, MCM-12, MCM-14, MCM-17

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 186 background values. Annual per-constituent alpha = 0.0016. Individual comparison alpha = 0.0001143 (1 of 2). Comparing 7 points to limit.

Constituent: pH, Field Analysis Run 4/16/2026 3:52 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

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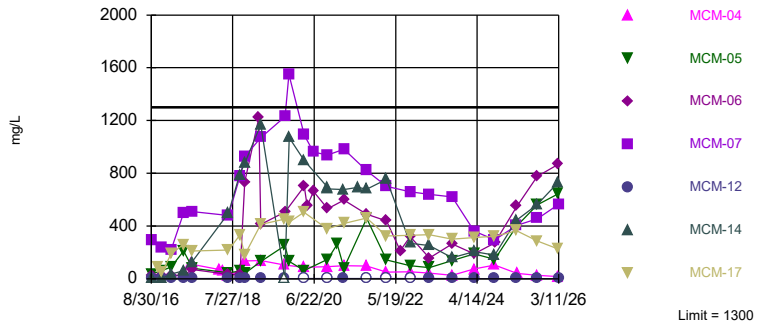
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 178 background values. Annual per-constituent alpha = 0.0008702. Individual comparison alpha = 0.00006218 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 4/16/2026 3:53 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

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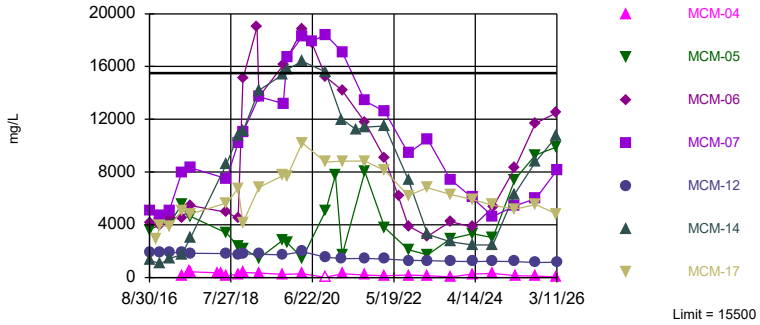
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 178 background values. 0.5618% NDs. Annual per-constituent alpha = 0.0008702. Individual comparison alpha = 0.00006218 (1 of 2). Comparing 7 points to limit.

Constituent: TDS Analysis Run 4/16/2026 3:53 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-14	MCM-12	MCM-16 (bg)	MCM-07	MCM-05	MCM-06	MCM-17	MCM-02 (bg)
8/30/2016	0.0325 (J)	0.726	1.18	0.0972 (J)					
8/31/2016					0.863	0.56	0.632		
10/25/2016								1.73	
11/30/2016	0.0334 (J)	0.565	1.3	0.0964	0.804	0.529	0.637	2.12	
2/15/2017	0.254	0.647	1.33	0.398				2.14	
2/16/2017					0.815	0.539	0.698		
5/31/2017		0.503	1.38					2.24	0.161
6/1/2017	0.0564			0.0776					
6/2/2017					0.891	0.555	0.674		
8/2/2017									0.158
8/15/2017			1.14					2.1	
8/16/2017	0.0435	0.539							0.148
8/17/2017				0.0853	0.922	0.516	0.7		
4/4/2018									
4/5/2018									0.13
5/8/2018									
5/9/2018									0.12
6/19/2018	0.04 (J)	0.76	1.2					1.7	0.13
6/20/2018				0.079		0.51	0.69		
6/21/2018					0.99				
9/25/2018		0.61	1						
9/26/2018	0.038 (J)			0.072				1.3	0.1
9/27/2018					0.88	0.47	0.62		
11/6/2018		0.75			1.1			1.8	
11/7/2018	0.037 (J)		1.4	0.074		0.51	0.86		0.1
3/6/2019							1.5		
3/24/2019		0.95	1		1.2	0.44	1.1	1.4	
3/25/2019	0.038 (J)			0.067					0.091
10/15/2019		1	1.1						
10/16/2019	0.036 (J)			0.051		0.49		1.6	0.085
10/17/2019					1.1		1.3		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					1.3	0.53			
11/21/2019		1						1.5	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	0.064 (J)								
3/27/2020		1.3	1.5	0.088 (J)				1.8	0.17 (J)
3/28/2020					0.79	0.28 (J)	0.95		
6/16/2020					1.7		2		
10/12/2020			1.3						
10/13/2020	<0.5	1.1		<0.5				1.8	<0.5
10/14/2020		1.2			1.8		1.5		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-14	MCM-12	MCM-16 (bg)	MCM-07	MCM-05	MCM-06	MCM-17	MCM-02 (bg)
10/15/2020						0.61			
1/4/2021						0.99			
3/2/2021		1.4 (J)	1.4 (J)						
3/3/2021	<0.5			<0.5				1.7 (J)	<0.5
3/4/2021					1.6 (J)	0.4 (J)	1.4 (J)		
7/1/2021		0.26 (J)							
9/13/2021		1.2	1.4						
9/14/2021	0.079 (J)			0.071 (J)	1.5	0.95 (J)	1.1	2.1	0.093 (J)
3/1/2022						0.75 (J)	1.7		
3/2/2022	0.048 (J)				1.3				0.086
3/3/2022		0.89 (J)	1.2	0.057				1.4	
9/20/2022							1.1		
9/21/2022	0.35 (J)	1	1.3	0.12 (J)	1.3	0.61		1.8	0.23 (J)
2/28/2023			1.23					1.78	
3/1/2023	0.091			0.0669					0.115
3/2/2023		0.738			1.25	0.511	0.961		
9/12/2023	0.101	0.657	1.42	0.0613		0.42			
9/13/2023					1.21			1.97	
9/14/2023							0.807		0.102
3/19/2024			1.33					1.73	0.0924
3/20/2024	0.0784	0.474							
3/21/2024				0.0603	1.05	0.491	0.772		
9/10/2024			1.31					1.65	
9/11/2024	0.0753	0.415		0.0517	0.888	0.463			0.0875
9/12/2024							0.745		
3/17/2025		0.341	1.38						
3/18/2025	0.0642							1.64	
3/19/2025					0.911	0.607	0.822		
3/20/2025				0.0594					0.0922
9/9/2025	0.0522	0.776	1.32			0.669	0.799		
9/10/2025				0.054					0.091
9/11/2025					0.906			2.21	
3/10/2026	0.0393	0.81				1.06	1.15	1.72	
3/11/2026			1.31		0.88				0.0843
3/12/2026				0.0488					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-11 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-19 (bg)	MCM-18 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	0.0521					
6/1/2017		0.0608				
6/2/2017			0.0495			
8/2/2017	0.0392 (J)	0.137	0.0333 (J)			
8/15/2017	0.0448					
8/16/2017						
8/17/2017		0.128	0.0593			
4/4/2018	0.046	0.1	0.065			
4/5/2018						
5/8/2018	0.048	0.074	0.062			
5/9/2018						
6/19/2018	0.04		0.064			
6/20/2018		0.045				
6/21/2018						
9/25/2018	0.043					
9/26/2018			0.06			
9/27/2018		0.06				
11/6/2018	0.046	0.06				
11/7/2018			0.062 (J)			
3/6/2019						
3/24/2019						
3/25/2019	0.03 (J)	0.058	0.057			
10/15/2019		0.068	0.046			
10/16/2019	0.032 (J)					
10/17/2019						
11/7/2019				1.1	0.84	0.27
11/18/2019						0.29 (J)
11/19/2019				1.3	0.83	
11/20/2019						
11/21/2019						
12/4/2019				0.81	0.68	
12/5/2019						0.23
12/17/2019					0.57	
12/18/2019				0.77		0.23
1/8/2020				0.9	0.73	
1/9/2020						0.2
1/21/2020				0.94	0.75	0.24 (J)
2/4/2020				0.96 (J)	0.79 (J)	0.24 (J)
2/13/2020				0.88	0.74	0.22
3/26/2020						
3/27/2020	0.058 (J)		0.076 (J)	0.94	0.96	0.24 (J)
3/28/2020		0.067 (J)				
6/16/2020						
10/12/2020	<0.5					0.24 (J)
10/13/2020		<0.5	<0.5	1.1	0.73	
10/14/2020						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-11 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-19 (bg)	MCM-18 (bg)
10/15/2020						
1/4/2021						
3/2/2021			<0.5			
3/3/2021	<0.5			0.91 (J)	0.79 (J)	0.21 (J)
3/4/2021		0.11 (J)				
7/1/2021						
9/13/2021						
9/14/2021	0.06 (J)	0.07 (J)	0.068 (J)	0.91 (J)	1.2	0.2 (J)
3/1/2022				0.87 (J)	0.41 (J)	
3/2/2022	0.038 (J)		0.054			0.23 (J)
3/3/2022		0.053				
9/20/2022				0.9	0.77	0.18 (J)
9/21/2022	0.17 (J)	0.19 (J)	0.14 (J)			
2/28/2023				0.723	0.707	0.185
3/1/2023	0.0461	0.108				
3/2/2023			0.0416			
9/12/2023			0.0393			
9/13/2023	0.0783	0.047		1.02	1.2	
9/14/2023						0.229
3/19/2024					0.704	0.185
3/20/2024	0.0443	0.116	0.0531			
3/21/2024				0.864		
9/10/2024	0.0483	0.131				
9/11/2024			0.035	0.841	0.61	0.172
9/12/2024						
3/17/2025						
3/18/2025	0.0522					
3/19/2025				0.751	0.684	0.175
3/20/2025		0.0876	0.0644			
9/9/2025			0.0726	0.885	0.838	0.19
9/10/2025	0.0854	0.0612				
9/11/2025						
3/10/2026		0.0411				0.227
3/11/2026	0.0334		0.0547		0.272	
3/12/2026				0.855		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-14	MCM-12	MCM-16 (bg)	MCM-06	MCM-07	MCM-05	MCM-17	MCM-11 (bg)
8/30/2016	7.3	42.8	7.05	4.02					
8/31/2016					82.8	119	65		
10/25/2016								69.4	
11/30/2016	10.8	33.2	8.69	4.87	68.7	103	71.7	83.9	
2/15/2017	14.3	56.1	8.34	6.61				96.3	
2/16/2017					94.8	114	74		
5/31/2017		73.6	8.85					122	18.6
6/1/2017	12.7 (J)			6.42					
6/2/2017					92.5	179	120		
8/2/2017									18.5
8/15/2017			8.05					117	4.09
8/16/2017	8.7	99.6							
8/17/2017				5.62	126	186	100		
4/4/2018									<25
4/5/2018									
5/8/2018									18.4 (J)
5/9/2018									
6/19/2018	11.6 (J)	285	8.3					136	4.3
6/20/2018				5.7	121		72.8		
6/21/2018						179			
6/28/2018	13	294	8.9					138	
9/25/2018		283	6.8						6.2
9/26/2018	12.8 (J)			5.3				148	
9/27/2018					95.1	193	46.6		
11/6/2018		297				219		24.7	1.8
11/7/2018	11.9		8.5	5.3	364		41.8		
3/6/2019					341				
3/24/2019		338	7.4		277	243	20.9 (J)	136	
3/25/2019	12.6 (J)			5.7					2.5
10/15/2019		321	7.9						
10/16/2019	13.6			4.8			55.2	118	2.2
10/17/2019					309	260			
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019						308	55.8		
11/21/2019		305						125	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	10.1								
3/27/2020		286	8.3	5.4				222	3.3
3/28/2020					286	286	25.8		
4/23/2020					266				
6/16/2020					234	254			
10/12/2020			6.1						2.8

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-14	MCM-12	MCM-16 (bg)	MCM-06	MCM-07	MCM-05	MCM-17	MCM-11 (bg)
10/13/2020	9.8	40.9		5.7				86.4	
10/14/2020		177			219 (D)	216			
10/15/2020							69.1		
1/4/2021							107		
3/2/2021		205	6.5						
3/3/2021	14			11.2				143	2.1
3/4/2021					233	244	23.4		
7/1/2021		231							
9/13/2021		165	6						
9/14/2021	9.6			6.5	299	225	13.9	190	14
3/1/2022					131		48.4		
3/2/2022	8.2					198			6.8
3/3/2022		224	4.6	5.4				84	
6/28/2022					73.5				
9/20/2022					47				
9/21/2022	9.2	74	4.7	4.6		190	28	110	7.6
2/28/2023			5.17					94.2	
3/1/2023	7.87			4.74					6.53
3/2/2023		48			36.1	194	25.9		
9/12/2023	10.1	55.3	4.98	4.48			61.5		
9/13/2023						136		84.6	20.7
9/14/2023					83.1				
3/19/2024			4.99					63.2	
3/20/2024	11.3	40.6							9.1
3/21/2024				5.32	66.6	89.1	75.5		
9/10/2024			4.67					57.2	6.36
9/11/2024	9.6	41.3		5.49		72.5	78.5		
9/12/2024					134				
3/17/2025		171	4.62						
3/18/2025	9.39							72.2	3.66
3/19/2025					198	98.9	196		
3/20/2025				6.41					
9/9/2025	7.83	178	4.43		240		245		
9/10/2025				3.98					20.7
9/11/2025						132		60.7	
3/10/2026	7.9	206			245		240	46.2	
3/11/2026			4.55			168			4.74
3/12/2026				4.69					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-18 (bg)	MCM-19 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	5.9					
6/1/2017		3.65				
6/2/2017			2.77			
8/2/2017	4.69	12.4	1.27			
8/15/2017						
8/16/2017	5.25					
8/17/2017		8.17	5.53			
4/4/2018		6.8	6.5			
4/5/2018	5					
5/8/2018		5.7	6.7			
5/9/2018	4.7					
6/19/2018	4.8		7.4			
6/20/2018		4.3				
6/21/2018						
6/28/2018						
9/25/2018						
9/26/2018	4.6		8.5 (J)			
9/27/2018		16.4 (J)				
11/6/2018		39.5				
11/7/2018	4.6		9.8			
3/6/2019						
3/24/2019						
3/25/2019	4.7	20.8 (J)	7.8			
10/15/2019		15.5	6.7			
10/16/2019	4.9					
10/17/2019						
11/7/2019				163	46.2	158
11/18/2019					41.8	
11/19/2019				169		152
11/20/2019						
11/21/2019						
12/4/2019				140		142
12/5/2019					40.5	
12/17/2019						136
12/18/2019				145	42	
1/8/2020				157		147
1/9/2020					37.1	
1/21/2020				152	40.1	167
2/4/2020				139	36.2	142
2/13/2020				146	38.9	148
3/26/2020						
3/27/2020	4.9		5.9	113	23.2	122
3/28/2020		15.5				
4/23/2020						
6/16/2020						
10/12/2020					19.1	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-20 (bg)	MCM-18 (bg)	MCM-19 (bg)
10/13/2020	3.8	12.5	0.83	128		125
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			1.4			
3/3/2021	4			110	26	123
3/4/2021		15.1				
7/1/2021						
9/13/2021						
9/14/2021	4.2	12.5	6.7	61.1	18.8	93.6
3/1/2022				99.8		35.5
3/2/2022	4.1		7.2		22.3	
3/3/2022		8				
6/28/2022						
9/20/2022				100	20	150
9/21/2022	4.3	7.8	0.83			
2/28/2023				104	22.5	150
3/1/2023	5.26	7.75				
3/2/2023			1.41			
9/12/2023			0.953			
9/13/2023		4.93		108		202
9/14/2023	6.64				21.1	
3/19/2024	4.73				19.7	138
3/20/2024		10.1	4.88			
3/21/2024				102		
9/10/2024		9.06				
9/11/2024	5.36		0.928	87.8	15.3	127
9/12/2024						
3/17/2025						
3/18/2025						
3/19/2025				92.4	17.9	139
3/20/2025	6.94	6.11	4.54			
9/9/2025			6.52	86.6	15.4	143
9/10/2025	6.85	4.36				
9/11/2025						
3/10/2026		4.03			21.7	
3/11/2026	5.45		5.47			39.5
3/12/2026				93.2		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-16 (bg)	MCM-12	MCM-14	MCM-05	MCM-07	MCM-06	MCM-17	MCM-11 (bg)
8/30/2016	9.7	26	800	450					
8/31/2016					1800	2600	2200		
10/25/2016								1300	
11/30/2016	19	27	760	310	1100	2800	2100	400	
2/15/2017	21	30	740	490				2000	
2/16/2017					2100	3100	2500		
5/31/2017			740	820				2500	98
6/1/2017	12	27							
6/2/2017					3100	4600	2500		
8/2/2017									57
8/15/2017			750					2500	15
8/16/2017	14			1500					
8/17/2017		32			2600	4600	2700		
4/4/2018									69
4/5/2018									
5/8/2018									72.3
5/9/2018									
6/19/2018	24.4		760	5180				3050	17.3
6/20/2018		30			1800		3100		
6/21/2018						3920			
9/25/2018			752	7220					31.3
9/26/2018	23.4	28.4						3965 (D)	
9/27/2018					1300	5660	2510		
11/6/2018				6020		6520		2230	9.8
11/7/2018	21.8	25.1	665		1180		8860		
3/6/2019							11700		
3/24/2019			744	7400	717	8720	6470	3960	
3/25/2019	19.4	21.8							12.9
10/15/2019			744	9050					
10/16/2019	21.4	20			1390			4260	12.2
10/17/2019						8210	9930		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					1480	9810			
11/21/2019				8330				3890	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	23								
3/27/2020		23.6	675	7680				4770	14.5
3/28/2020					693	9070	9190		
4/23/2020							7390		
6/16/2020						7580	7760		
10/12/2020			552						13.9
10/13/2020	13.5	23.3		6230				3980	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-16 (bg)	MCM-12	MCM-14	MCM-05	MCM-07	MCM-06	MCM-17	MCM-11 (bg)
10/14/2020				6230		8170	6780 (D)		
10/15/2020					1660				
1/4/2021					2460				
3/2/2021			459	5680					
3/3/2021	13.6	27.6						3920	9.4
3/4/2021					652	7540	6310		
7/1/2021				5960					
9/13/2021			433	5010					
9/14/2021	16.7	30			3940	6300	5360	4090	62.8
3/1/2022					1680		4150		
3/2/2022	13.4					5630			28.4
3/3/2022		26.5	394	5040				3540	
6/28/2022							3520		
9/20/2022							2800		
9/21/2022	17	17	400	3300	1100	6400		3300	32
2/28/2023			518					2770	
3/1/2023	14.9	14.2							17.7
3/2/2023				1810	853	5450	1470		
9/12/2023	10.7	13.3	326	1180	1330				
9/13/2023						3690		2660	98.5
9/14/2023							2220		
3/19/2024			361					3130	
3/20/2024	10.8			1390					32.1
3/21/2024		11.5			1830	3240	2120		
9/10/2024			297					3080	11.2
9/11/2024	9.34	9.65		1320	1800	2440			
9/12/2024							3240		
3/17/2025			311	3240					
3/18/2025	11.9							2900	4.51
3/19/2025					3790	2720	4590		
3/20/2025		8.86							
9/9/2025	14.4		281	4230	4910		5860		
9/10/2025		5.99							82.5
9/11/2025						3210		2550	
3/10/2026	16.6			5360	6240		6820	2450	
3/11/2026			285			3760			7.98
3/12/2026		5.87							

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	39					
6/1/2017		22				
6/2/2017			11			
8/2/2017	42	230	3.2			
8/15/2017						
8/16/2017	41					
8/17/2017		210	12			
4/4/2018		156	13.4			
4/5/2018	40.2					
5/8/2018		140	13.2			
5/9/2018	40.6					
6/19/2018	37.7		13.7			
6/20/2018		27.5				
6/21/2018						
9/25/2018						
9/26/2018	33.4		18.5			
9/27/2018		101				
11/6/2018		107				
11/7/2018	30.7		20.2			
3/6/2019						
3/24/2019						
3/25/2019	33.5	78.5	19.7			
10/15/2019		46	17.1			
10/16/2019	33.1					
10/17/2019						
11/7/2019				2360	6170	7880
11/18/2019				6970		
11/19/2019					5650	8130
11/20/2019						
11/21/2019						
12/4/2019					6100	7410
12/5/2019				2130		
12/17/2019					5660	
12/18/2019				2090		7170
1/8/2020					5070	6480
1/9/2020				1750		
1/21/2020				1630	5010	6000
2/4/2020				1760	5030	5700
2/13/2020				1850	6140	7060
3/26/2020						
3/27/2020	32.9		14.1	1450	6870	7110
3/28/2020		71.4				
4/23/2020						
6/16/2020						
10/12/2020				1340		
10/13/2020	25.7	54.4	3.8		5260	5980

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			4.2			
3/3/2021	20.5			1230	5170	5500
3/4/2021		69.6				
7/1/2021						
9/13/2021						
9/14/2021	21.8	28.5	13.6	1020	7250	5100
3/1/2022					1870	4900
3/2/2022	20.6		14.3	1420		
3/3/2022		12.2				
6/28/2022						
9/20/2022				1200	6200	5700
9/21/2022	23	47	3.3			
2/28/2023				1250	5760	7930
3/1/2023	21.8	45.6				
3/2/2023			4.88			
9/12/2023			3.49			
9/13/2023		10.4			8600	5250
9/14/2023	21.1			1190		
3/19/2024	20			1100	5460	
3/20/2024		82.3	13.5			
3/21/2024						4980
9/10/2024		100				
9/11/2024	16.4		3.34	856	4880	4420
9/12/2024						
3/17/2025						
3/18/2025						
3/19/2025				992	5330	4320
3/20/2025	13.1	45.3	10.6			
9/9/2025			14.2	835	5800	4040
9/10/2025	15.4	21.5				
9/11/2025						
3/10/2026		10		1230		
3/11/2026	13.7		12.2		1390	
3/12/2026						4640

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-14	MCM-12	MCM-16 (bg)	MCM-06	MCM-07	MCM-05	MCM-17	MCM-11 (bg)
8/30/2016	0.03 (J)	0.5	1.5	0.04 (J)					
8/31/2016					0.41	0.92	0.93		
10/25/2016								1.1	
11/30/2016	0.04 (J)	0.49	1.4	0.18 (J)	0.61	0.99	0.93	1.3	
2/15/2017	0.007 (J)	0.58	1.3	0.02 (J)				1.3	
2/16/2017					0.3 (J)	0.54	0.6		
5/31/2017		0.56	1.2					1.3	0.85
6/1/2017	<0.1			0.005 (J)					
6/2/2017					0.19 (J)	0.42	0.34		
8/2/2017									0.69
8/15/2017			1.2					1.2	0.29 (J)
8/16/2017	0.03 (J)	0.45							
8/17/2017				0.04 (J)	0.26 (J)	0.27 (J)	0.52		
4/4/2018									0.32
4/5/2018									
5/8/2018									0.63
5/9/2018									
6/19/2018	<0.1	<0.1	0.91					0.6	0.17 (J)
6/20/2018				0.038 (J)	0.22 (J)		0.5		
6/21/2018						0.28 (J)			
9/25/2018		<0.1	1.1						0.15 (J)
9/26/2018	0.12 (J)			<0.1				0.44 (D)	
9/27/2018					0.068 (J)	0.32	0.32		
11/6/2018		0.084 (J)				0.086 (J)		0.4	<0.1
11/7/2018	<0.1		<0.1	<0.1	10.3 (O)		0.35		
3/6/2019					<0.1				
3/24/2019		0.14 (J)	0.99		0.19 (J)	0.14 (J)	0.32	0.31	
3/25/2019	0.038 (J)			0.041 (J)					0.12 (J)
8/26/2019		<0.1							
8/27/2019	<0.1		1.1	<0.1				<0.1	
8/28/2019					<0.1	<0.1	0.36		0.068 (J)
10/15/2019		<0.1	1						
10/16/2019	0.046 (J)			0.044 (J)			0.41	0.083 (J)	0.1 (J)
10/17/2019					<0.1	<0.1			
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019						<0.1	0.34		
11/21/2019		<0.1						<0.1	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	<0.1								
3/27/2020		<0.1	1.1	<0.1				<0.1	0.066 (J)
3/28/2020					<0.1	<0.1	0.34		
10/12/2020			1.2						<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-14	MCM-12	MCM-16 (bg)	MCM-06	MCM-07	MCM-05	MCM-17	MCM-11 (bg)
10/13/2020	<0.1	<0.1		<0.1				<0.1	
10/14/2020					<0.1	<0.1			
10/15/2020							0.22		
1/4/2021							<0.1		
3/2/2021		<0.1	1						
3/3/2021	<0.1			<0.1				0.58 (J)	0.082 (J)
3/4/2021					<0.1	<0.1	0.45		
7/1/2021		<0.1							
9/13/2021		<0.1	1.4						
9/14/2021	<0.1			<0.1	<0.1	<0.1	<0.1	<0.1	0.18
3/1/2022					<0.1		<0.1		
3/2/2022	<0.1					<0.1			0.097 (J)
3/3/2022		<0.1	0.95	<0.1				<0.1	
9/20/2022					1.1 (J)				
9/21/2022	<0.1	0.12	1.3	<0.1		0.18	0.48	0.78	0.11
2/28/2023			1.21					0.815	
3/1/2023	<0.1			0.0397 (J)					0.101
3/2/2023		0.188 (J)			0.419 (J)	0.44 (J)	0.388		
9/12/2023	<0.1	<0.1	1.32	<0.1			0.374		
9/13/2023						0.982		1.46	0.362
9/14/2023					0.246 (J)				
3/19/2024			1.34					0.959 (J)	
3/20/2024	0.0748 (J)	0.294 (J)							0.206
3/21/2024				0.0585 (J)	0.469 (J)	0.814 (J)	0.277		
9/10/2024			1.67					0.986 (J)	0.202
9/11/2024	0.0669 (J)	0.164 (J)		<0.1		0.692	0.654		
9/12/2024					0.392 (J)				
3/17/2025		0.273 (J)	1.36						
3/18/2025	0.0534 (J)							1.45	0.0773 (J)
3/19/2025					0.407 (J)	0.798 (J)	0.557		
3/20/2025				<0.1					
9/9/2025	0.0772 (J)	<0.1	1.51		0.272 (J)		0.719		
9/10/2025				0.0442 (J)					0.359
9/11/2025						0.589		0.995	
3/10/2026	0.0665 (J)	0.224 (J)			0.28 (J)		0.486 (J)	0.858	
3/11/2026			1.58			0.603			0.131
3/12/2026				0.0547 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-19 (bg)	MCM-20 (bg)	MCM-18 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	0.01 (J)					
6/1/2017		<0.1				
6/2/2017			<0.1			
8/2/2017	0.14 (J)	0.27 (J)	0.05 (J)			
8/15/2017						
8/16/2017	0.13 (J)					
8/17/2017		0.18 (J)	<0.1			
4/4/2018		<0.1	<0.1			
4/5/2018	<0.1					
5/8/2018		0.56	<0.1			
5/9/2018	<0.1					
6/19/2018	0.065 (J)		0.057 (J)			
6/20/2018		0.033 (J)				
6/21/2018						
9/25/2018						
9/26/2018	<0.1		<0.1			
9/27/2018		0.12 (J)				
11/6/2018		<0.1				
11/7/2018	<0.1		<0.1			
3/6/2019						
3/24/2019						
3/25/2019	0.039 (J)	0.055 (J)	0.036 (J)			
8/26/2019						
8/27/2019		<0.1	<0.1			
8/28/2019	<0.1					
10/15/2019		0.095 (J)	0.14 (J)			
10/16/2019	0.044 (J)					
10/17/2019						
11/7/2019				<0.1	1.4	0.49
11/18/2019						0.52
11/19/2019				0.033 (J)	1.2	
11/20/2019						
11/21/2019						
12/4/2019				0.22 (J)	1.4	
12/5/2019						0.5
12/17/2019				<0.1		
12/18/2019					1.5	0.33
1/8/2020				<0.1	<0.1	
1/9/2020						0.12 (J)
1/21/2020				0.11 (J)	0.53	0.13 (J)
2/4/2020				<0.1	<0.1	0.18 (J)
2/13/2020				<0.1	<0.1	0.077 (J)
3/26/2020						
3/27/2020	<0.1		<0.1	<0.1	<0.1	0.06 (J)
3/28/2020		<0.1				
10/12/2020						0.34

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-19 (bg)	MCM-20 (bg)	MCM-18 (bg)
10/13/2020	<0.1	<0.1	<0.1	<0.1	<0.1	
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			<0.1			
3/3/2021	<0.1			<0.1	<0.1	0.32
3/4/2021		<0.1				
7/1/2021						
9/13/2021						
9/14/2021	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3/1/2022				<0.1	<0.1	
3/2/2022	<0.1		<0.1			<0.1
3/3/2022		<0.1				
9/20/2022				<0.1	4.3 (JO)	0.61 (J)
9/21/2022	<0.1	<0.1	<0.1			
2/28/2023				0.38 (J)	3.32	0.407 (J)
3/1/2023	<0.1	<0.1				
3/2/2023			0.0397 (J)			
9/12/2023			<0.1			
9/13/2023		0.0941 (J)		<0.1	3.98	
9/14/2023	<0.1					0.251 (J)
3/19/2024	<0.1			1.2 (J)		0.702
3/20/2024		0.0744 (J)	<0.1			
3/21/2024					3.79	
9/10/2024		0.0749 (J)				
9/11/2024	<0.1		<0.1	0.743 (J)	2.83	0.267
9/12/2024						
3/17/2025						
3/18/2025						
3/19/2025				0.831 (J)	2.94	0.564
3/20/2025	<0.1	0.0536 (J)	<0.1			
9/9/2025			0.0538 (J)	0.778	3.2	0.369 (J)
9/10/2025	0.0373 (J)	<0.1				
9/11/2025						
3/10/2026		0.0536 (J)				0.433
3/11/2026	<0.1		0.0579 (J)	0.381 (J)		
3/12/2026					0.421 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-14	MCM-16 (bg)	MCM-12	MCM-06	MCM-07	MCM-05	MCM-17	MCM-11 (bg)
8/30/2016	5.66	7.04	5.18	6.49					
8/31/2016					7.21	6.66	6.93		
10/25/2016								6.95	
11/30/2016	5.36	7.13	4.96	6.5	7.23	6.69	6.77	6.95	
2/15/2017	5.25	7.02	5.13	6.51				6.85	
2/16/2017					7.27	6.72	6.89		
5/31/2017		7		6.45				6.96	5.29
6/1/2017	5.59		4.99						
6/2/2017					7.18	6.53	6.83		
8/2/2017									5.19
8/15/2017				6.41				6.99	5.19
8/16/2017	5.58	6.88							
8/17/2017			4.68		7.15	6.28	6.76		
4/4/2018									5.19
4/5/2018									
5/8/2018									5.3
5/9/2018									
6/19/2018	5.51	6.78		6.32				6.91	5.15
6/20/2018			4.77		7.19		6.83		
6/21/2018						6.45			
9/25/2018		6.75		6.31					5.13
9/26/2018	5.32		4.65					6.8	
9/27/2018					7.21	6.48	6.64		
11/6/2018		6.92				6.18		5.99	5.08
11/7/2018	5.72		4.99	6.3	6.91		6.6		
3/24/2019		6.59		6.4	6.98	6.39	6.61	6.62	
3/25/2019	5.75		5.13						5.05
8/26/2019		6.62							
8/27/2019	5.58		4.88	6.24				6.23	
8/28/2019					6.87	6.35	6.69		4.87
10/15/2019		6.58		6.19					
10/16/2019	5.72		4.89				6.64	6.54	5.05
10/17/2019					6.86	6.4			
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019	5.77					6.27	6.58		
11/21/2019		6.67						6.44	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	5.45								
3/27/2020		6.59	5.12	6.33				6.93	5.09
3/28/2020					6.8	6.35	6.6		
6/16/2020					6.87	6.33			
10/12/2020				6.35					5

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-14	MCM-16 (bg)	MCM-12	MCM-06	MCM-07	MCM-05	MCM-17	MCM-11 (bg)
10/13/2020	5.69	6.56	5.17					6.34	
10/14/2020					6.93	6.32			
10/15/2020							6.52		
1/4/2021							6.66		
3/2/2021		6.55		6.34					
3/3/2021	5.81		5.71					6.58	5.37
3/4/2021					6.94	6.33	6.52		
7/1/2021		6.64							
9/13/2021		6.3		6.24					
9/14/2021	5.13		4.69		6.94	6.28	6.67	6.77	5.5
3/1/2022					7.24		6.87		
3/2/2022	5.32					6.41			5.11
3/3/2022		6.49	4.88	6.51				6.26	
6/28/2022					7.28				
9/20/2022					7.29				
9/21/2022	4.95	6.61	4.91	6.3		6.27	6.93	6.72	4.97
2/28/2023				6.28				6.62	
3/1/2023	4.91		4.76						4.78
3/2/2023		6.54 (D)			7.38	6.28	6.55		
9/12/2023	4.54	6.68	4.45	6.43			6.81		
9/13/2023						6.53		6.55	4.92
9/14/2023					7.3				
3/19/2024				6.55				6.38	
3/20/2024	5.04	6.72							4.18
3/21/2024			5.1		7.02	6.31	6.66		
9/10/2024				6.44				6.11	5.19
9/11/2024	5.01	6.66	5.41			6.53	6.94		
9/12/2024					7.2				
3/17/2025		6.44		6.49					
3/18/2025	5.14							6.59	5.06
3/19/2025					7.07	6.61	6.91		
3/20/2025			5.52						
9/9/2025	5.01	6.51		6.38	6.72		6.85		
9/10/2025			4.73						5.29
9/11/2025						6.44		6.42	
3/10/2026	5.12	6.26			6.5		6.72	6.06	
3/11/2026				6.29		6.55			4.73
3/12/2026			5.2						

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-20 (bg)	MCM-19 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	5.06					
6/1/2017		5.68				
6/2/2017			5.31			
8/2/2017	5	5.2	5.05			
8/15/2017						
8/16/2017	4.98					
8/17/2017		5.31	5.52			
4/4/2018		4.74	5.45			
4/5/2018	5.02					
5/8/2018		4.78	5.54			
5/9/2018	4.96					
6/19/2018	5.02		5.6			
6/20/2018		4.79				
6/21/2018						
9/25/2018						
9/26/2018	5.06		5.17			
9/27/2018		5.14				
11/6/2018		4.9				
11/7/2018	5.03		5.47			
3/24/2019			5.4			
3/25/2019	5.08	4.93	5.4			
8/26/2019						
8/27/2019		5.05	5.35			
8/28/2019	4.99					
10/15/2019		4.89	5.32			
10/16/2019	4.98					
10/17/2019						
11/7/2019				4.25	3.79	5.21
11/18/2019				4.12		
11/19/2019	5.11				3.78	5.15
11/20/2019		5.03				
11/21/2019						
12/4/2019					3.87	5.28
12/5/2019				4.17		
12/17/2019						4.96
12/18/2019				4.2	3.76	
1/8/2020					3.77	5.04
1/9/2020				4.19		
1/21/2020				4.28	3.73	5.1
2/4/2020				4.26	3.72	5.15
2/13/2020				4.2	3.75	5.07
3/26/2020						
3/27/2020	5.12		5.3	4.34	3.81	5.14
3/28/2020		5.27				
6/16/2020						
10/12/2020				4.29		

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-20 (bg)	MCM-19 (bg)
10/13/2020	5.03	5.25	5.02		3.72	5.04
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			5.16			
3/3/2021	5.06			4.37	3.76	5.1
3/4/2021		5.31				
7/1/2021						
9/13/2021						
9/14/2021	5.04	5.09	5.39	4.28	3.72	5.31
3/1/2022					3.69	5.38
3/2/2022	5.16		5.37	4.33		
3/3/2022		4.98				
6/28/2022						
9/20/2022				4.47	3.63	5.14
9/21/2022	5.14	5.34	5.23			
2/28/2023				4.42	3.7 (D)	5.08
3/1/2023	5.1 (D)	4.93				
3/2/2023			4.45			
9/12/2023			4.4			
9/13/2023		5.29			3.67	5.05
9/14/2023	5.02			4.17		
3/19/2024	4.62			4.42		4.97
3/20/2024		4.41	5.23			
3/21/2024					3.67	
9/10/2024		5.1				
9/11/2024	5.43		4.99	4.04	3.58	4.61
9/12/2024						
3/17/2025						
3/18/2025						
3/19/2025				4.49	3.83	5.16
3/20/2025	5.6	4.97	5.34			
9/9/2025			5.33	4.29	3.67	4.94
9/10/2025	5.3	5.42				
9/11/2025						
3/10/2026		5.07		4.55		
3/11/2026	5.09		5.44			5.06
3/12/2026					3.51	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-16 (bg)	MCM-12	MCM-14	MCM-05	MCM-07	MCM-06	MCM-17	MCM-11 (bg)
8/30/2016	17	24	4.3	6.4					
8/31/2016					37	290	21		
10/25/2016								84	
11/30/2016	33	26	7.6	4.5	63	240	19	52	
2/15/2017	83	30	3	37				190	
2/16/2017					90	220	22		
5/31/2017			2.5	61				260	40
6/1/2017	51	24							
6/2/2017					210	500	28		
8/2/2017									34
8/15/2017			3.2					210	24
8/16/2017	36			130					
8/17/2017		26			80	510	69		
4/4/2018									33.9
4/5/2018									
5/8/2018									35.7
5/9/2018									
6/19/2018	50.3		1.6	498				218	23.7
6/20/2018		31.2			46 (J)		33		
6/21/2018						481			
9/25/2018			1	790					25.6
9/26/2018	54.1	36.8						333 (D)	
9/27/2018					58.5 (J)	777	29.4		
11/6/2018				875		926		182	25.2
11/7/2018	45.6	35	0.41 (J)		41.3 (J)		734		
3/6/2019							1220 (J)		
3/24/2019			1.5	1170	131	1070	413	413	
3/25/2019	43	40.1							24.9
10/15/2019			0.54 (J)	<5					
10/16/2019	31.9	28.5			252			453	17.4
10/17/2019						1230	507		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					132	1550			
11/21/2019				1070				428	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	36.2								
3/27/2020		31.2	<5	899				504	23.4
3/28/2020					63.8	1090	701		
4/23/2020							552		
6/16/2020						961	663		
10/12/2020			<5						19.3
10/13/2020	32.3	26.8		695				378	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-16 (bg)	MCM-12	MCM-14	MCM-05	MCM-07	MCM-06	MCM-17	MCM-11 (bg)
10/14/2020				682		938	531 (D)		
10/15/2020					147				
1/4/2021					262				
3/2/2021			1.2	677					
3/3/2021	33.8	30.5						420	19.9
3/4/2021					82.2	982	596		
7/1/2021				693					
9/13/2021			<5	680					
9/14/2021	34.2	24.4			459	819	490	460	33.1
3/1/2022					143		440		
3/2/2022	30.8					702			19.5
3/3/2022		20.4	<5	754				324	
6/28/2022							213		
9/20/2022							320		
9/21/2022	39	24	<5	270	100	660		330	23
2/28/2023			1.33					334	
3/1/2023	45.3	25.8							21.4
3/2/2023				252	84.2	640	157		
9/12/2023	47.5	25.2	1.18	160	139				
9/13/2023						620		300	42
9/14/2023							263		
3/19/2024			1.7					312	
3/20/2024	45.4			207					34.5
3/21/2024		29.4			189	360	189		
9/10/2024			0.462					323	24.3
9/11/2024	42.1	23.2		180	148	296			
9/12/2024							271		
3/17/2025			1.83	443					
3/18/2025	30.4							363	26
3/19/2025					399	404	549		
3/20/2025		21.9							
9/9/2025	24.9		0.343 (J)	563	560		775		
9/10/2025		24.7							41
9/11/2025						457		286	
3/10/2026	24.1			733	644		868	226	
3/11/2026			1.28			566			23.3
3/12/2026		23.5							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	46					
6/1/2017		42				
6/2/2017			13			
8/2/2017	43	120	14			
8/15/2017						
8/16/2017	41					
8/17/2017		110	14			
4/4/2018		70.6	13.4			
4/5/2018	33.4					
5/8/2018		61.4	14.8			
5/9/2018	36					
6/19/2018	35.5		15.5			
6/20/2018		25.3				
6/21/2018						
9/25/2018						
9/26/2018	39.6		23			
9/27/2018		63.4				
11/6/2018		136				
11/7/2018	35.8		22.2			
3/6/2019						
3/24/2019						
3/25/2019	34.2	137	22.4			
10/15/2019		105	17.9			
10/16/2019	24.4					
10/17/2019						
11/7/2019				379	832	1010
11/18/2019				737		
11/19/2019					795	1140
11/20/2019						
11/21/2019						
12/4/2019					810	1020
12/5/2019				351		
12/17/2019					535	
12/18/2019				274		444 (J)
1/8/2020					603	747
1/9/2020				254		
1/21/2020				254	611	798
2/4/2020				432	599	1120
2/13/2020				300	761	833
3/26/2020						
3/27/2020	28.6		14.6	219	836	700
3/28/2020		86.6				
4/23/2020						
6/16/2020						
10/12/2020				191		
10/13/2020	27.6	92.3	7.6		609	638

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-02 (bg)	MCM-04	MCM-15 (bg)	MCM-18 (bg)	MCM-19 (bg)	MCM-20 (bg)
10/14/2020						
10/15/2020						
1/4/2021						
3/2/2021			8			
3/3/2021	27.6			171	708	743
3/4/2021		99.1				
7/1/2021						
9/13/2021						
9/14/2021	30.4	96.2	16.7	134	995	659
3/1/2022					158	543
3/2/2022	25.7		16	186		
3/3/2022		50.6				
6/28/2022						
9/20/2022				160	740	750
9/21/2022	29	52	6.3			
2/28/2023				186	820	950
3/1/2023	27.4	44.2				
3/2/2023			8.12			
9/12/2023			6.48			
9/13/2023		27.1			1300	832
9/14/2023	28.8			165		
3/19/2024	28			167	810	
3/20/2024		73.7	12.3			
3/21/2024						1190
9/10/2024		103				
9/11/2024	26.2		5.75	149	781	852
9/12/2024						
3/17/2025						
3/18/2025						
3/19/2025				179	843	920
3/20/2025	24.3	41.8	11.5			
9/9/2025			14.3	140	824	784
9/10/2025	23.9	25.8				
9/11/2025						
3/10/2026		17.6		209		
3/11/2026	23.9		12.4		163	
3/12/2026						977

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-14	MCM-12	MCM-16 (bg)	MCM-07	MCM-05	MCM-06	MCM-17	MCM-02 (bg)
8/30/2016	86	1310	1910	99					
8/31/2016					5100	3620	4160		
10/25/2016								2900	
11/30/2016	131	1050	1910	111	4680	4030	3950	3970	
2/15/2017	212	1440	1870	170				3820	
2/16/2017					5080	4080	4600		
5/31/2017		1740	1920					5050	123
6/1/2017	103			98					
6/2/2017					8000	5560	4470		
8/2/2017									136
8/15/2017			1840					4820	
8/16/2017	65	3010							124
8/17/2017				84	8320	4620	5450		
4/4/2018									
4/5/2018									128
5/8/2018									
5/9/2018									127
6/19/2018	142	8630	1820					5640	143
6/20/2018				123		3370	4940		
6/21/2018					7500				
9/25/2018		10700	1760						
9/26/2018	133			117				6770 (D)	132
9/27/2018					10200	2360	4480		
11/6/2018		11100			11000			4160	
11/7/2018	121		1800	120		2230	15100		134
3/6/2019							19000		
3/24/2019		14200	1770		13700	1450	13700	6840	
3/25/2019	116			101					111
10/15/2019		15400	1730						
10/16/2019	104			95		2860		7740	96
10/17/2019					13200		16100		
11/7/2019									
11/18/2019									
11/19/2019									
11/20/2019					16700	2640			
11/21/2019		15800						7720	
12/4/2019									
12/5/2019									
12/17/2019									
12/18/2019									
1/8/2020									
1/9/2020									
1/21/2020									
2/4/2020									
2/13/2020									
3/26/2020	114								
3/27/2020		16400	1970	110				10200	119
3/28/2020					18300	1470	18800		
6/16/2020					17900		17800		
10/12/2020			1560						
10/13/2020	113	15600		115				8750	118
10/14/2020					18400		15200		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-01 (bg)	MCM-14	MCM-12	MCM-16 (bg)	MCM-07	MCM-05	MCM-06	MCM-17	MCM-02 (bg)
10/15/2020						5100			
1/4/2021						7750			
3/2/2021		12000	1430						
3/3/2021	99			122				8830	84
3/4/2021					17100	1700	14200		
7/1/2021		11200							
9/13/2021		11400	1450						
9/14/2021	66			<25	13400	8020	11800	8820	76
3/1/2022						3780	9040		
3/2/2022	97				12600				94
3/3/2022		11500	1400	104				8120	
6/28/2022							6140		
9/20/2022							3900		
9/21/2022	100	7400	1300	78	9400	2100		6200	90
2/28/2023			1290					6810	
3/1/2023	78			56					73
3/2/2023		3280			10500	1710	3120		
9/12/2023	80	2720	1230	42		2940			
9/13/2023					7440			6310	
9/14/2023							4240		76
3/19/2024			1210					5920	50
3/20/2024	84	2480							
3/21/2024				51	6050	3320	3820		
9/10/2024			1230					5490	
9/11/2024	70	2480		54	4640	3020			64
9/12/2024							5340		
3/17/2025		6320	1220						
3/18/2025	86							5200	
3/19/2025					5420	7440	8300		
3/20/2025				61					69
9/9/2025	129	8750	1130			9300	11700		
9/10/2025				54					85
9/11/2025					5990			5530	
3/10/2026	70	10700				9900	12500	4830	
3/11/2026			1150		8120				83
3/12/2026				57					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-11 (bg)	MCM-04	MCM-15 (bg)	MCM-19 (bg)	MCM-20 (bg)	MCM-18 (bg)
8/30/2016						
8/31/2016						
10/25/2016						
11/30/2016						
2/15/2017						
2/16/2017						
5/31/2017	257					
6/1/2017		97				
6/2/2017			69			
8/2/2017	183	538	35			
8/15/2017	90					
8/16/2017						
8/17/2017		445	51			
4/4/2018	197	365	90			
4/5/2018						
5/8/2018	225	304	89			
5/9/2018						
6/19/2018	112		110			
6/20/2018		114				
6/21/2018						
9/25/2018	137					
9/26/2018			124			
9/27/2018		255				
11/6/2018	89	388				
11/7/2018			125			
3/6/2019						
3/24/2019						
3/25/2019	74	327	98			
10/15/2019		237	107			
10/16/2019	82					
10/17/2019						
11/7/2019				10900	13500	4140
11/18/2019						4030
11/19/2019				10000	13300	
11/20/2019						
11/21/2019						
12/4/2019				11000	13200	
12/5/2019						3840
12/17/2019				9860		
12/18/2019					12500	3880
1/8/2020				9760	12300	
1/9/2020						3520
1/21/2020				10100	12000	3280
2/4/2020				10600	12300	3220
2/13/2020				10900	12400	3580
3/26/2020						
3/27/2020	87		110	14300	14600	3090
3/28/2020		284				
6/16/2020						
10/12/2020	94					2920
10/13/2020		<25	63	6600	13900	
10/14/2020						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/16/2026 3:55 PM View: Appendix III - Interwell PLs

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-11 (bg)	MCM-04	MCM-15 (bg)	MCM-19 (bg)	MCM-20 (bg)	MCM-18 (bg)
10/15/2020						
1/4/2021						
3/2/2021			40			
3/3/2021	66			11000	11400	2620
3/4/2021		285				
7/1/2021						
9/13/2021						
9/14/2021	191	193	96	14600	10300	2190
3/1/2022				4050	10500	
3/2/2022	124		103			3100
3/3/2022		146				
6/28/2022						
9/20/2022				10000	8600	2000
9/21/2022	110	180	38			
2/28/2023				10400	8720	2090
3/1/2023	67	142				
3/2/2023			35			
9/12/2023			20			
9/13/2023	274	51		15500	10300	
9/14/2023						2040
3/19/2024				9800		1960
3/20/2024	137	255	65			
3/21/2024					7330	
9/10/2024	79	316				
9/11/2024			28	9180	8630	1530
9/12/2024						
3/17/2025						
3/18/2025	70					
3/19/2025				10100	9900	1930
3/20/2025		152	63			
9/9/2025			107	10900	8360	1640
9/10/2025	282	106				
9/11/2025						
3/10/2026		54				2260
3/11/2026	68		75	2710		
3/12/2026					8860	

FIGURE E.

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 4/16/2026, 4:18 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**MCM-02 (bg)**	**-0.006468**	**-102**	**-98**	**Yes**	**23**	**8.696**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MCM-16 (bg)**	**-0.004331**	**-134**	**-98**	**Yes**	**23**	**8.696**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MCM-18 (bg)**	**-0.01023**	**-109**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**MCM-18 (bg)**	**-4.614**	**-150**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**MCM-20 (bg)**	**-11.47**	**-148**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-02 (bg)**	**0.02177**	**118**	**111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-18 (bg)**	**0.04743**	**97**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-20 (bg)**	**-0.03078**	**-125**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-14**	**-0.05803**	**-194**	**-118**	**Yes**	**26**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-17**	**-0.0634**	**-136**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 4/16/2026, 4:18 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	MCM-01 (bg)	0.002645	56	98	No	23	8.696	n/a	n/a	0.01	NP
Boron (mg/L)	**MCM-02 (bg)**	**-0.006468**	**-102**	**-98**	**Yes**	**23**	**8.696**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	MCM-11 (bg)	0.001236	44	98	No	23	8.696	n/a	n/a	0.01	NP
Boron (mg/L)	MCM-15 (bg)	0.0001738	4	98	No	23	8.696	n/a	n/a	0.01	NP
Boron (mg/L)	**MCM-16 (bg)**	**-0.004331**	**-134**	**-98**	**Yes**	**23**	**8.696**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**MCM-18 (bg)**	**-0.01023**	**-109**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	MCM-19 (bg)	-0.01284	-33	-87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	MCM-20 (bg)	-0.01665	-68	-87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	MCM-12	0.00964	52	98	No	23	0	n/a	n/a	0.01	NP
Boron (mg/L)	MCM-17	-0.00881	-30	-105	No	24	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MCM-01 (bg)	-0.3938	-92	-105	No	24	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MCM-02 (bg)	0.08407	42	98	No	23	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MCM-11 (bg)	0	0	98	No	23	4.348	n/a	n/a	0.01	NP
Calcium (mg/L)	MCM-15 (bg)	-0.1766	-39	-98	No	23	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MCM-16 (bg)	-0.0484	-42	-98	No	23	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**MCM-18 (bg)**	**-4.614**	**-150**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	MCM-19 (bg)	-3.399	-48	-87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**MCM-20 (bg)**	**-11.47**	**-148**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	MCM-05	1.646	34	111	No	25	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MCM-06	-1.398	-3	-124	No	27	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MCM-14	-4.447	-27	-124	No	27	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-01 (bg)	-0.06127	-108	-111	No	25	0	n/a	n/a	0.01	NP
pH, Field (SU)	**MCM-02 (bg)**	**0.02177**	**118**	**111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-11 (bg)	-0.04402	-96	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-15 (bg)	-0.03016	-88	-111	No	25	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-16 (bg)	0.008741	15	105	No	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	**MCM-18 (bg)**	**0.04743**	**97**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-19 (bg)	-0.02201	-50	-87	No	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	**MCM-20 (bg)**	**-0.03078**	**-125**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MCM-05	0	-5	-118	No	26	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-06	-0.01613	-26	-118	No	26	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-07	-0.01087	-36	-118	No	26	0	n/a	n/a	0.01	NP
pH, Field (SU)	MCM-12	-0.005458	-30	-105	No	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	**MCM-14**	**-0.05803**	**-194**	**-118**	**Yes**	**26**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	**MCM-17**	**-0.0634**	**-136**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**

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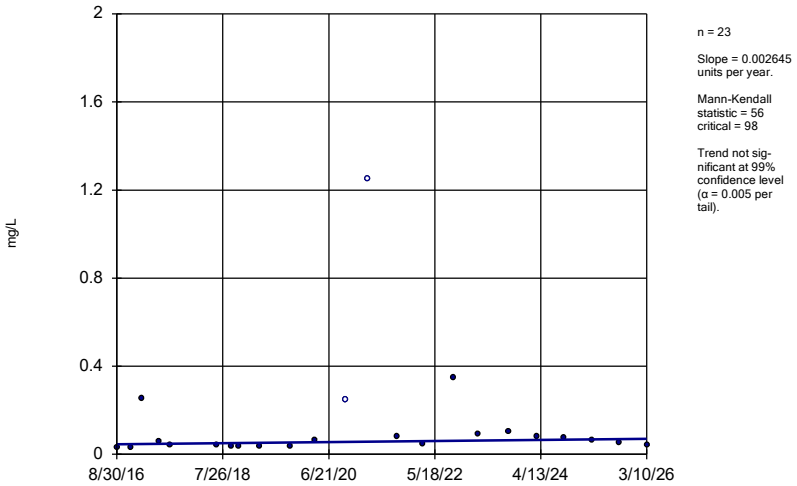
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-01 (bg)



n = 23

Slope = 0.002645 units per year.

Mann-Kendall statistic = 56
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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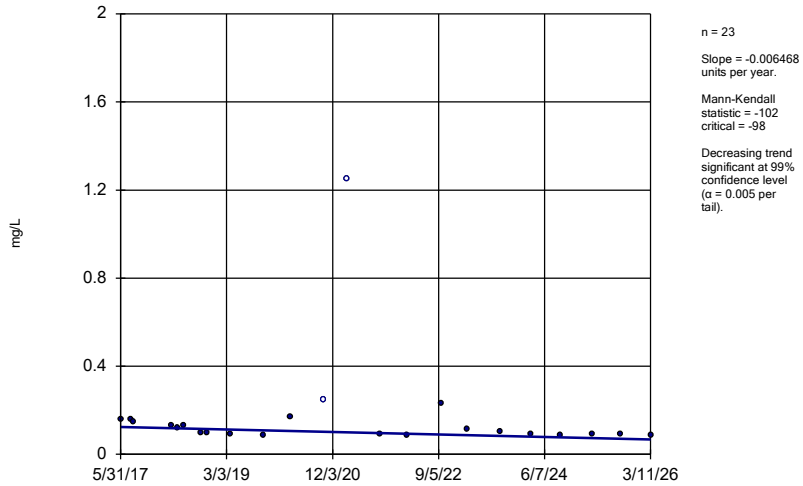
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-02 (bg)



n = 23

Slope = -0.006468 units per year.

Mann-Kendall statistic = -102
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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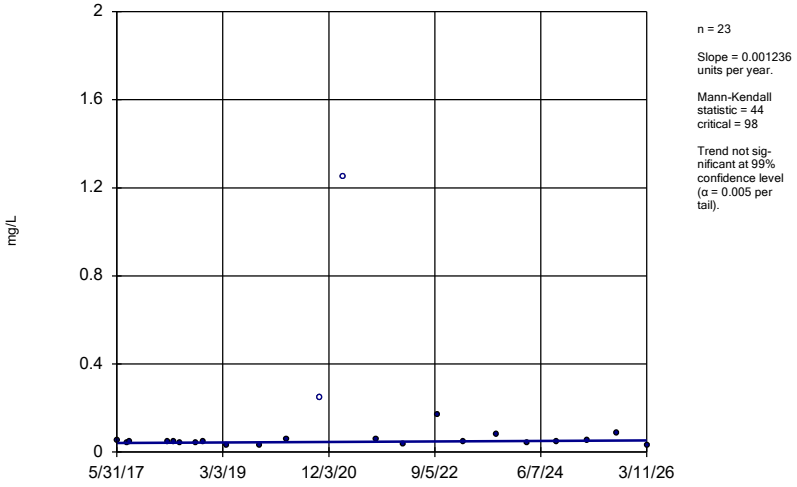
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-11 (bg)



n = 23

Slope = 0.001236 units per year.

Mann-Kendall statistic = 44
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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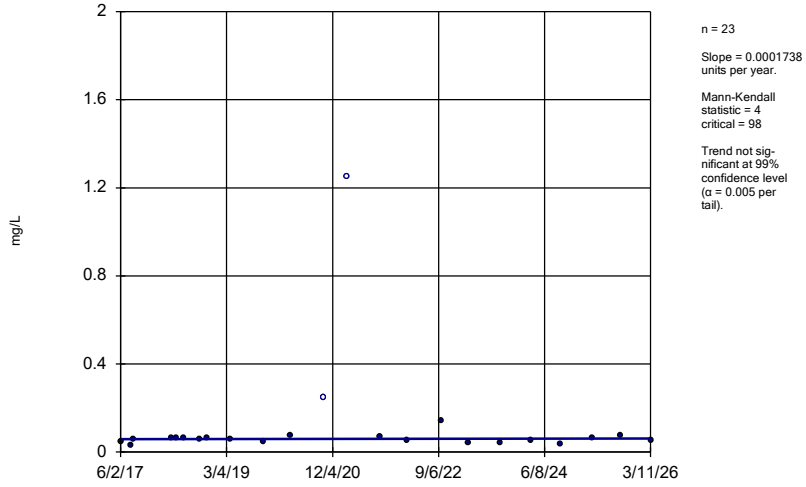
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-15 (bg)



n = 23

Slope = 0.0001738 units per year.

Mann-Kendall statistic = 4
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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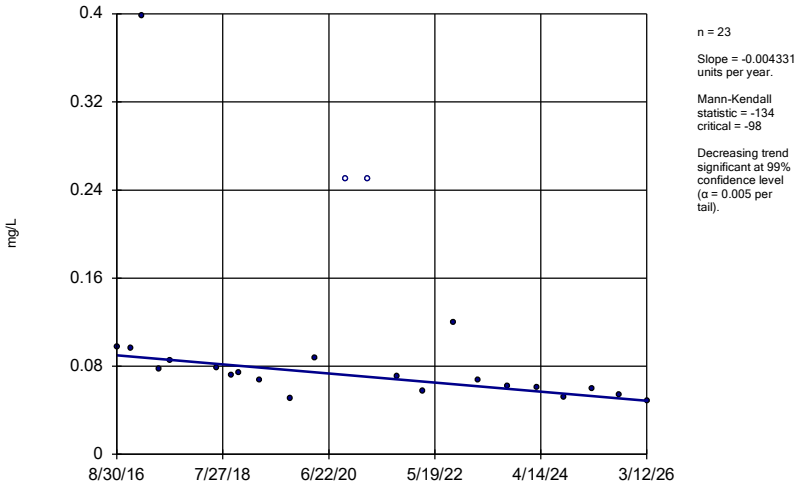
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-16 (bg)



n = 23

Slope = -0.004331 units per year.

Mann-Kendall statistic = -134
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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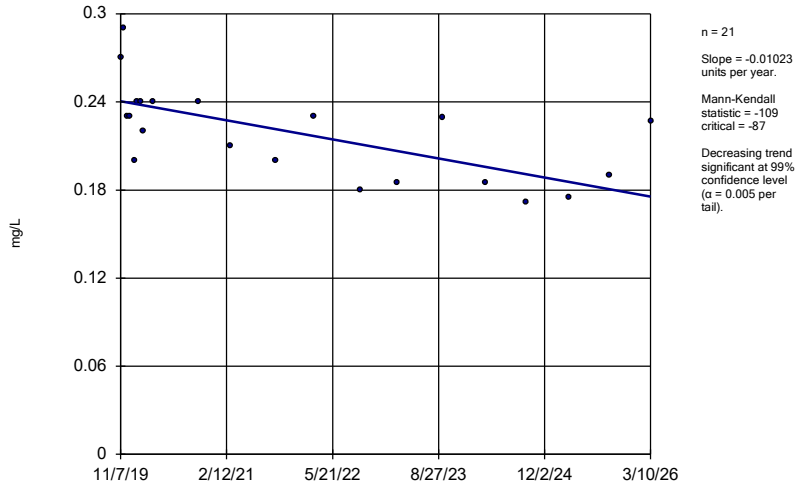
Sen's Slope Estimator

MCM-18 (bg)



n = 21

Slope = -0.01023 units per year.

Mann-Kendall statistic = -109
critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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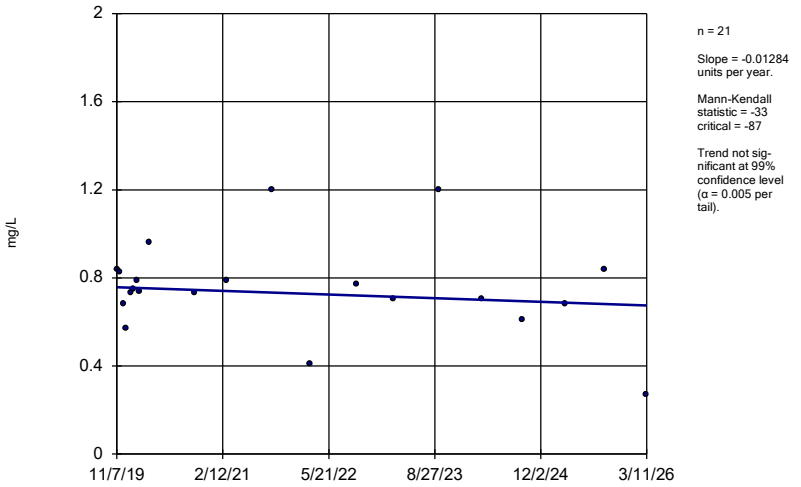
Sen's Slope Estimator

MCM-19 (bg)



n = 21

Slope = -0.01284 units per year.

Mann-Kendall statistic = -33
critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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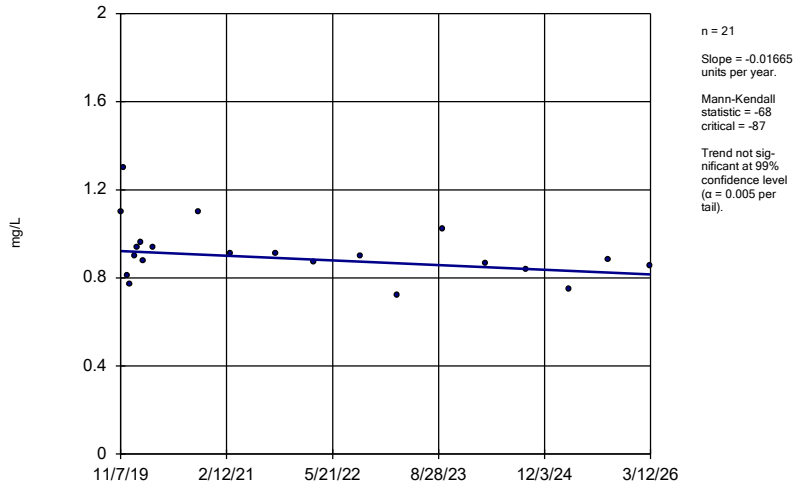
Sen's Slope Estimator

MCM-20 (bg)



n = 21

Slope = -0.01665 units per year.

Mann-Kendall statistic = -68
critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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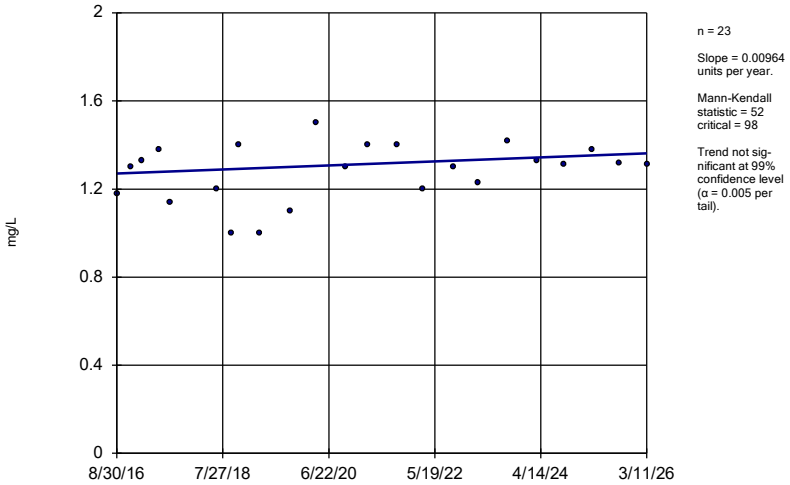
Sen's Slope Estimator

MCM-12



n = 23

Slope = 0.00964 units per year.

Mann-Kendall statistic = 52
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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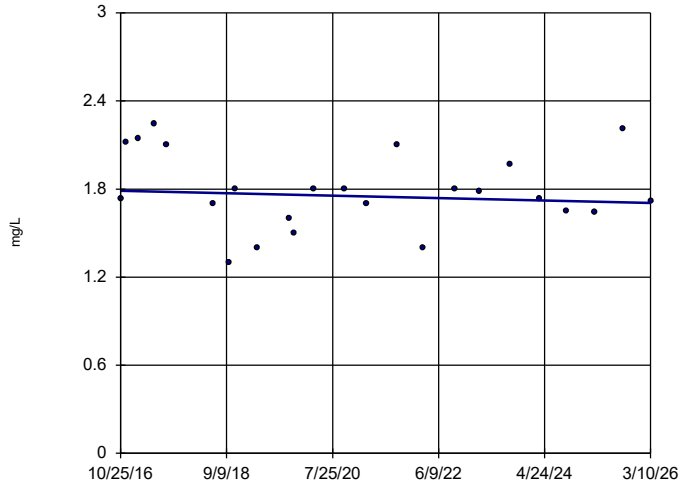
Sen's Slope Estimator

MCM-17



n = 24

Slope = -0.00881 units per year.

Mann-Kendall statistic = -30
critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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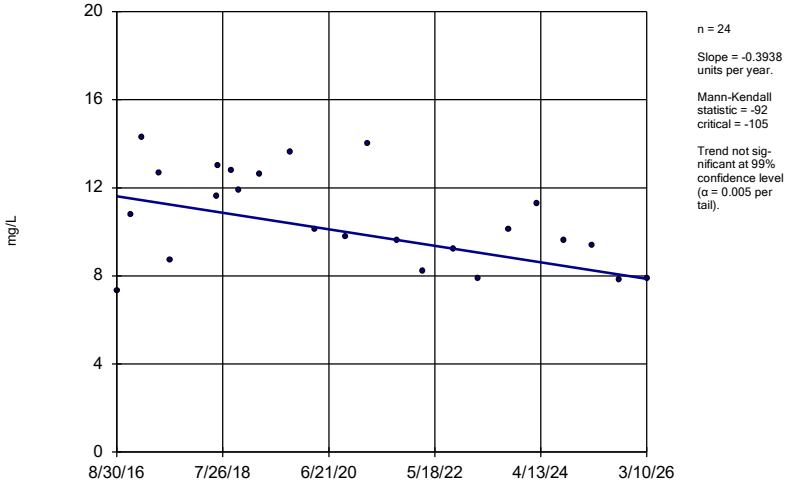
Sen's Slope Estimator

MCM-01 (bg)



n = 24

Slope = -0.3938 units per year.

Mann-Kendall statistic = -92
critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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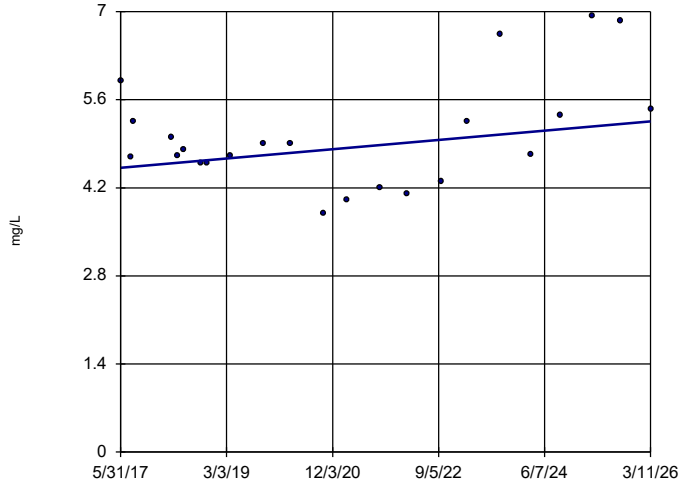
Sen's Slope Estimator

MCM-02 (bg)



n = 23

Slope = 0.08407 units per year.

Mann-Kendall statistic = 42
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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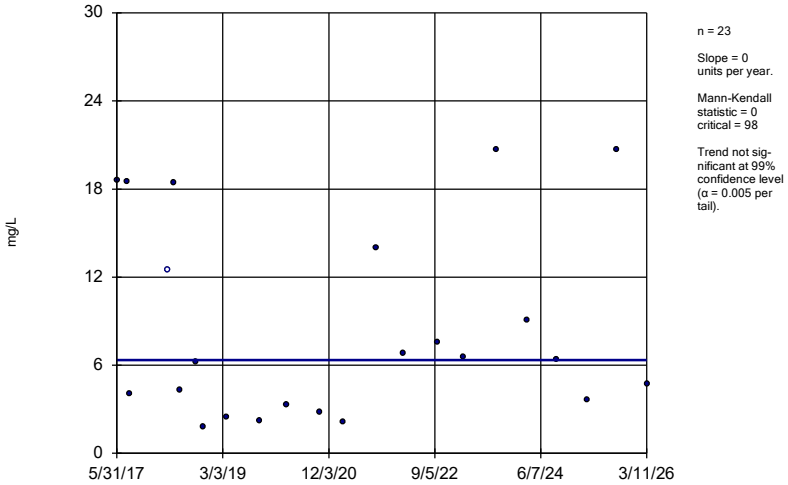
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-11 (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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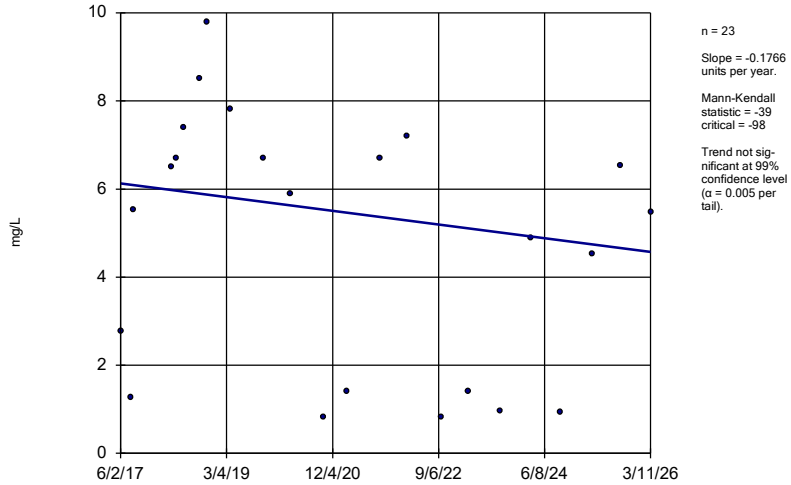
Sen's Slope Estimator

MCM-15 (bg)



n = 23

Slope = -0.1766 units per year.

Mann-Kendall statistic = -39 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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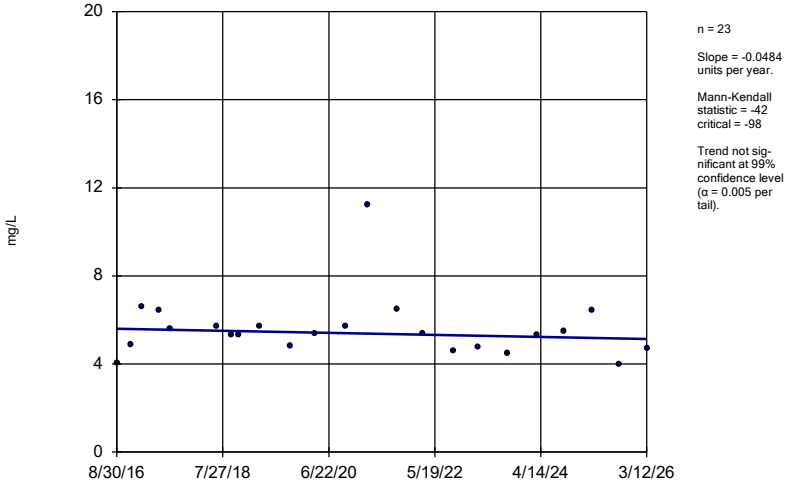
Sen's Slope Estimator

MCM-16 (bg)



n = 23

Slope = -0.0484 units per year.

Mann-Kendall statistic = -42 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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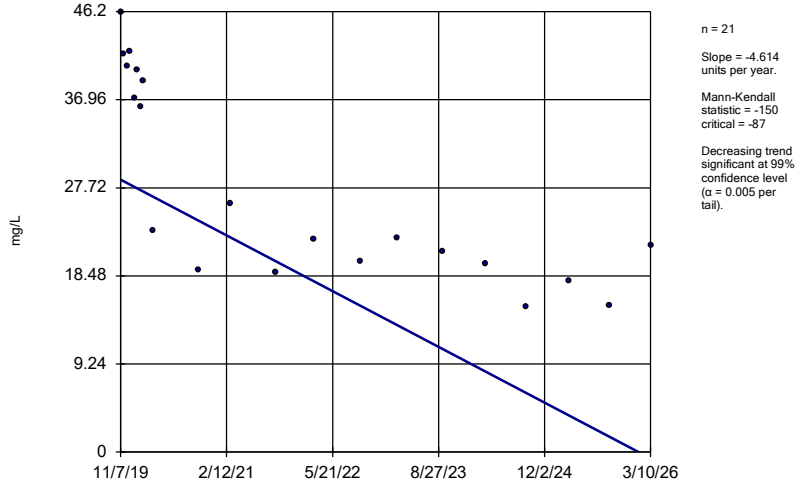
Sen's Slope Estimator

MCM-18 (bg)



n = 21

Slope = -4.614 units per year.

Mann-Kendall statistic = -150 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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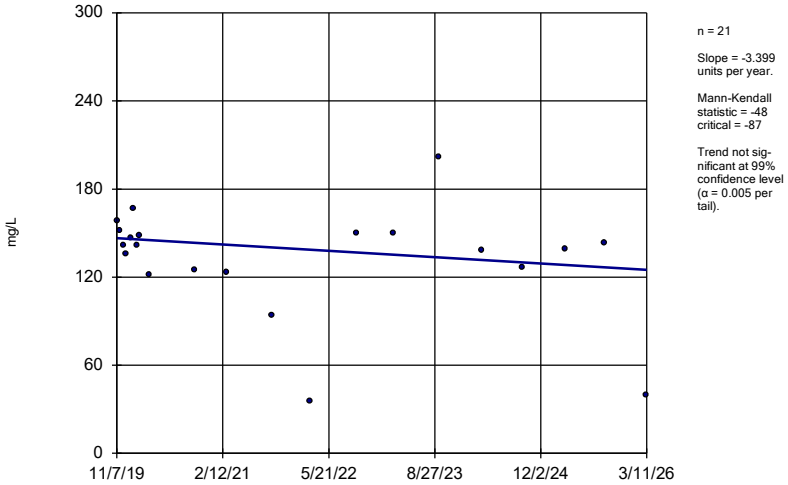
Sen's Slope Estimator

MCM-19 (bg)



n = 21

Slope = -3.399 units per year.

Mann-Kendall statistic = -48
critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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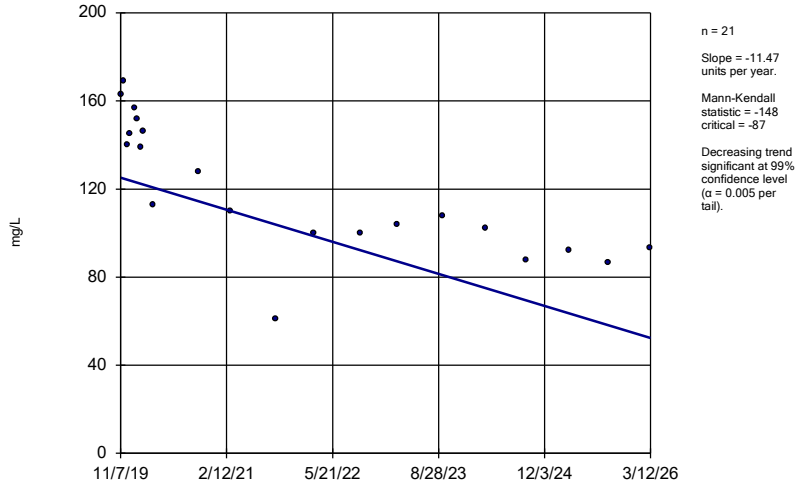
Sen's Slope Estimator

MCM-20 (bg)



n = 21

Slope = -11.47 units per year.

Mann-Kendall statistic = -148
critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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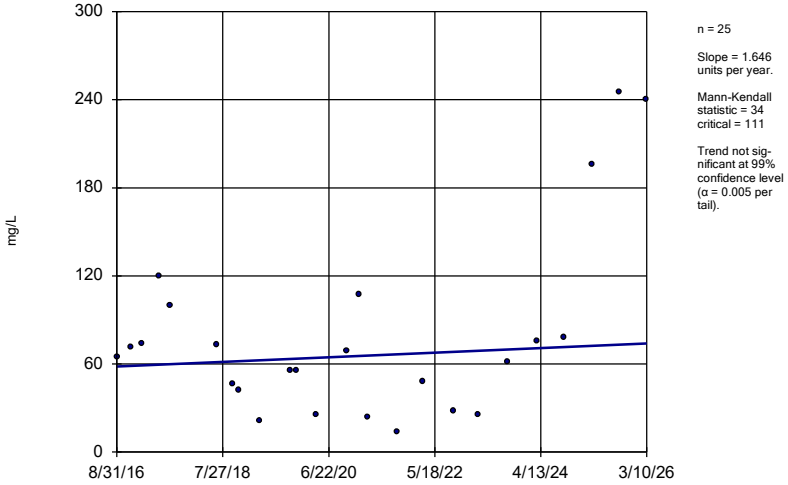
Sen's Slope Estimator

MCM-05



n = 25

Slope = 1.646 units per year.

Mann-Kendall statistic = 34
critical = 111

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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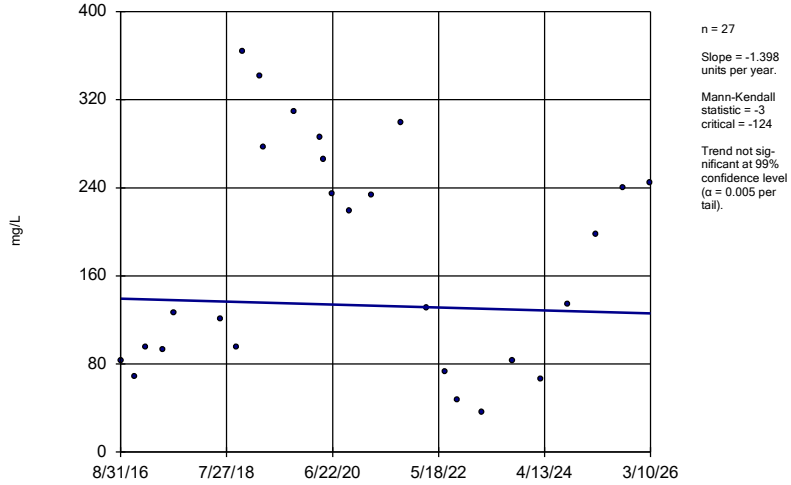
Sen's Slope Estimator

MCM-06



n = 27

Slope = -1.398 units per year.

Mann-Kendall statistic = -3
critical = -124

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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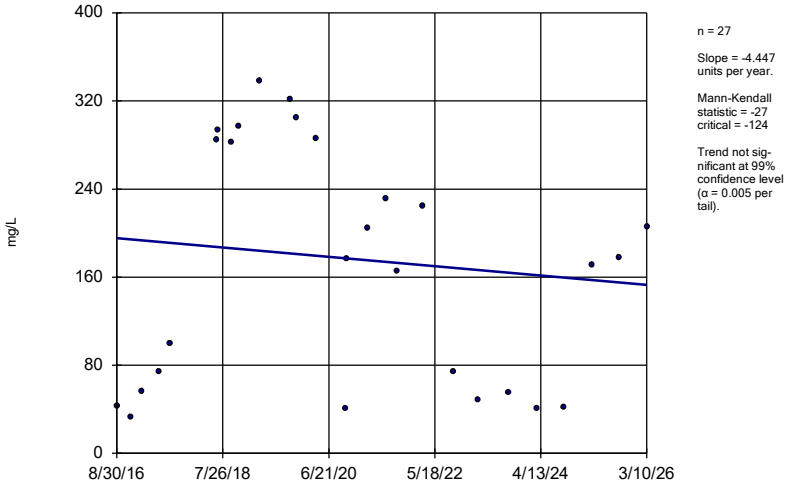
Sen's Slope Estimator

MCM-14



n = 27

Slope = -4.447 units per year.

Mann-Kendall statistic = -27 critical = -124

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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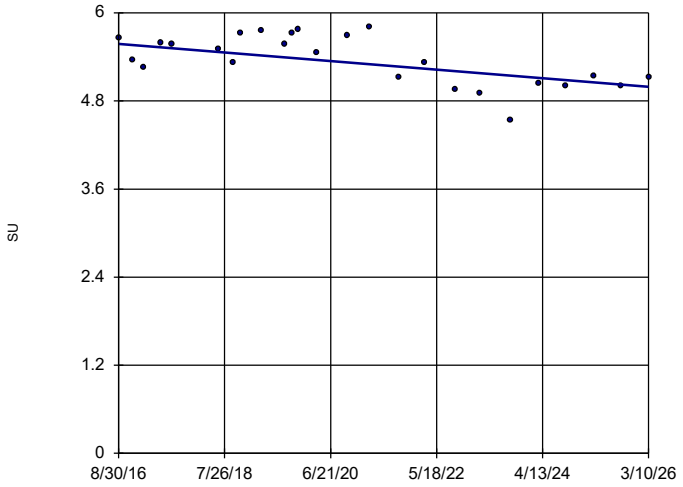
Sen's Slope Estimator

MCM-01 (bg)



n = 25

Slope = -0.06127 units per year.

Mann-Kendall statistic = -108 critical = -111

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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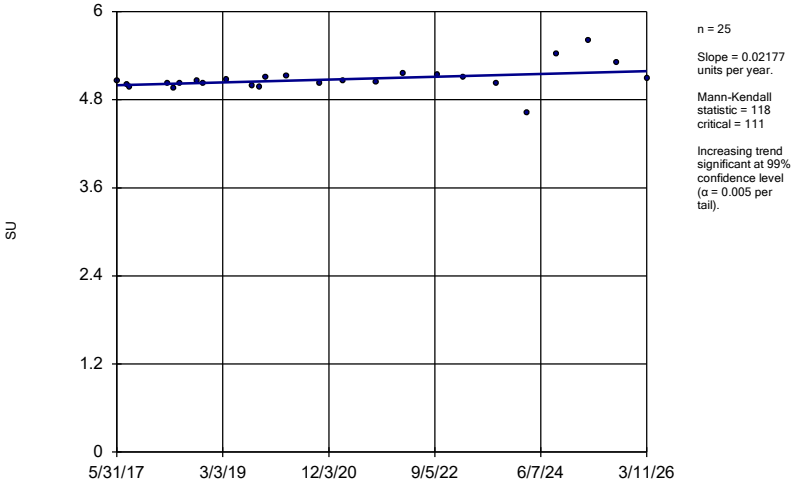
Sen's Slope Estimator

MCM-02 (bg)



n = 25

Slope = 0.02177 units per year.

Mann-Kendall statistic = 118 critical = 111

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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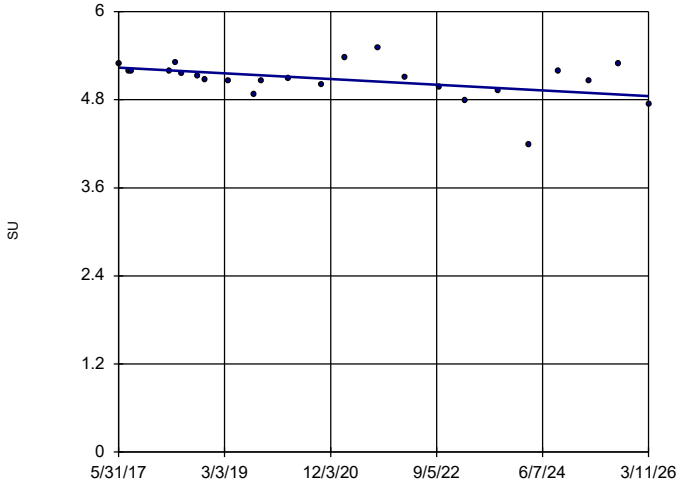
Sen's Slope Estimator

MCM-11 (bg)



n = 24

Slope = -0.04402 units per year.

Mann-Kendall statistic = -96 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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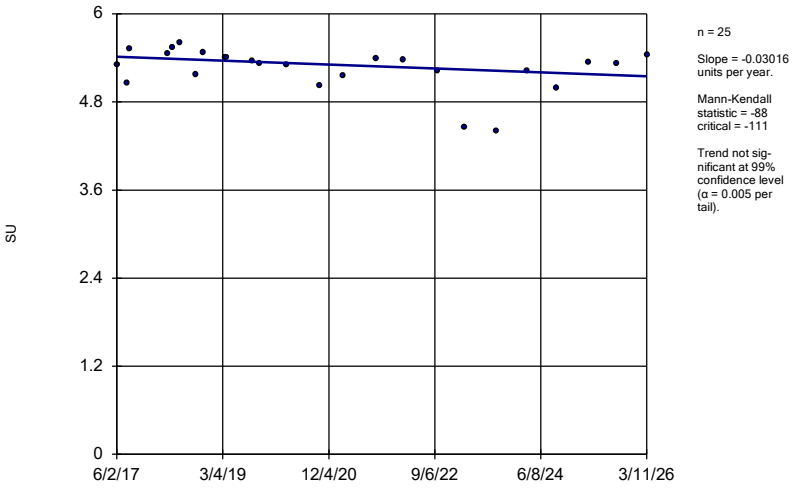
Sen's Slope Estimator

MCM-15 (bg)



n = 25

Slope = -0.03016 units per year.

Mann-Kendall statistic = -88
critical = -111

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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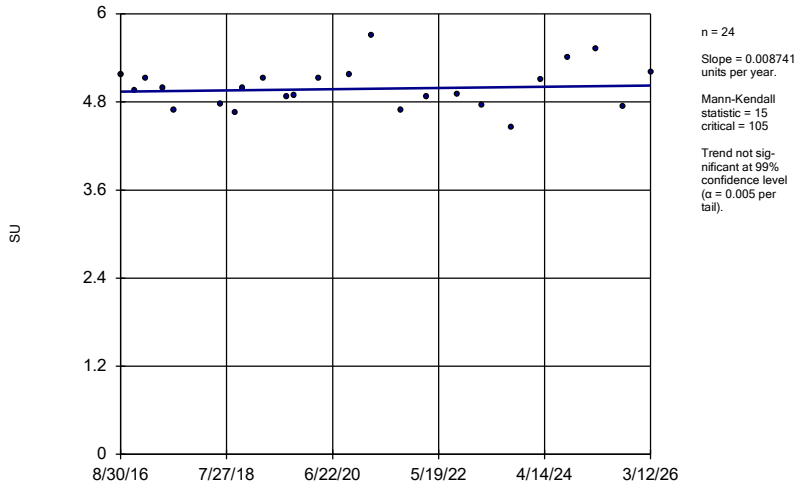
Sen's Slope Estimator

MCM-16 (bg)



n = 24

Slope = 0.008741 units per year.

Mann-Kendall statistic = 15
critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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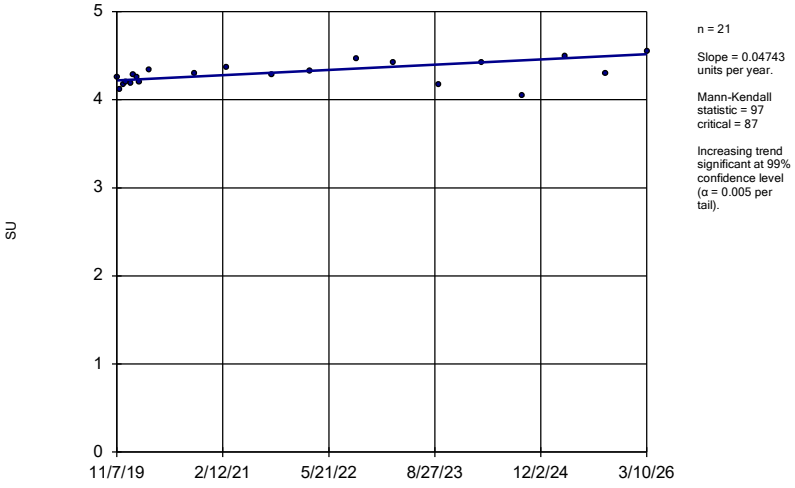
Sen's Slope Estimator

MCM-18 (bg)



n = 21

Slope = 0.04743 units per year.

Mann-Kendall statistic = 97
critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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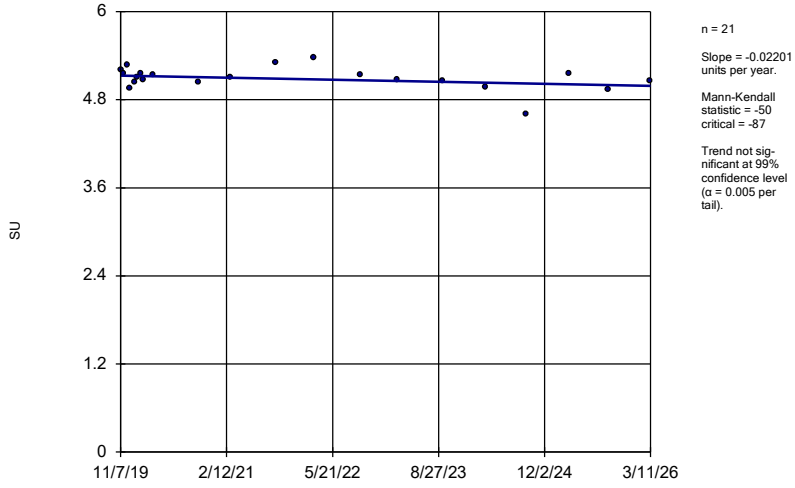
Sen's Slope Estimator

MCM-19 (bg)



n = 21

Slope = -0.02201 units per year.

Mann-Kendall statistic = -50
critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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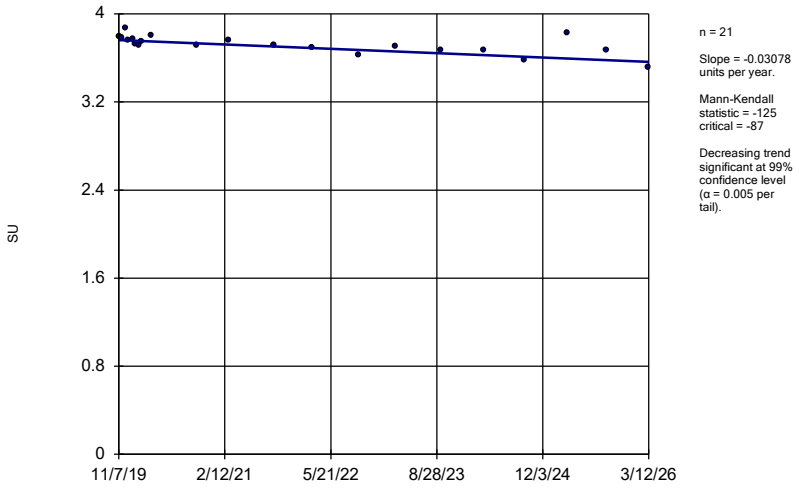
Sen's Slope Estimator

MCM-20 (bg)



n = 21

Slope = -0.03078 units per year.

Mann-Kendall statistic = -125 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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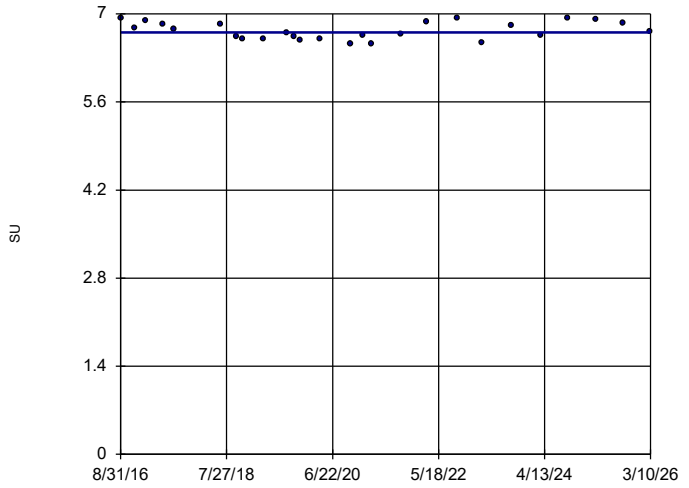
Sen's Slope Estimator

MCM-05



n = 26

Slope = 0 units per year.

Mann-Kendall statistic = -5 critical = -118

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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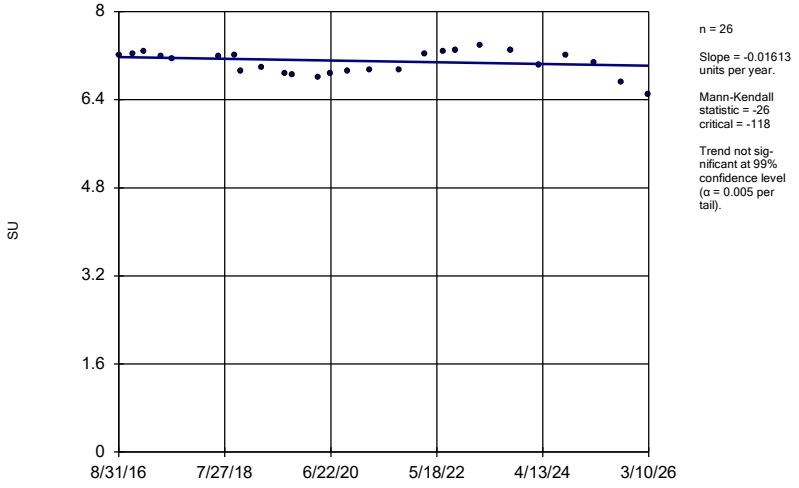
Sen's Slope Estimator

MCM-06



n = 26

Slope = -0.01613 units per year.

Mann-Kendall statistic = -26 critical = -118

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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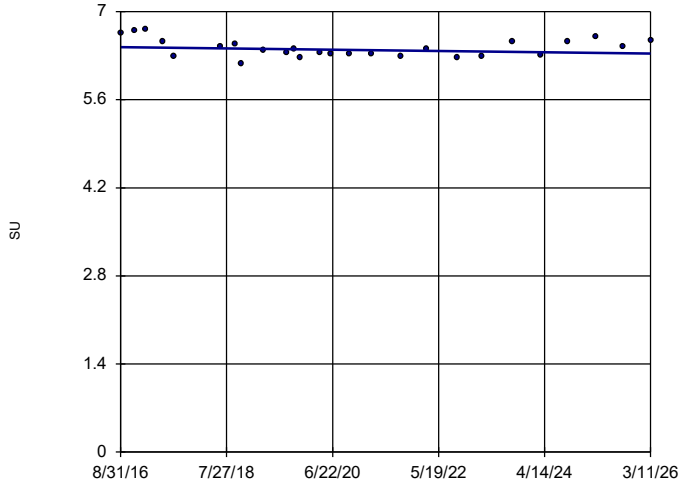
Sen's Slope Estimator

MCM-07



n = 26

Slope = -0.01087 units per year.

Mann-Kendall statistic = -36 critical = -118

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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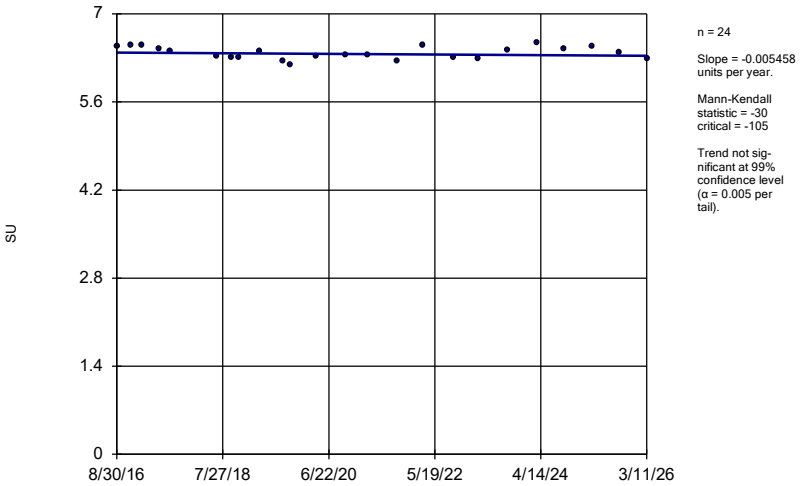
Sen's Slope Estimator

MCM-12



n = 24

Slope = -0.005458 units per year.

Mann-Kendall statistic = -30
critical = -105

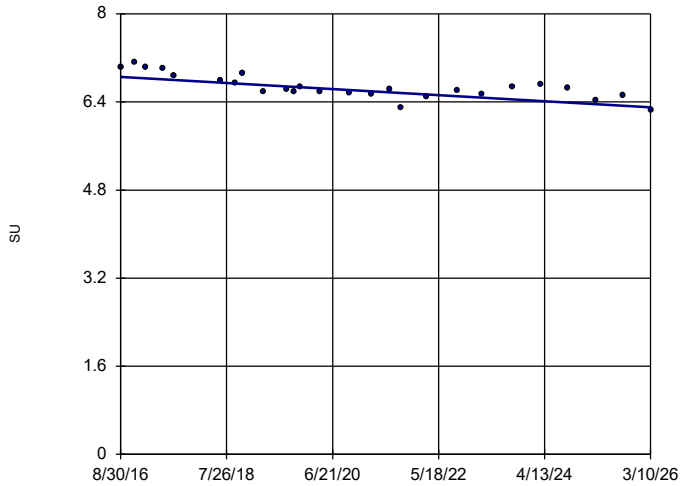
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MCM-14



n = 26

Slope = -0.05803 units per year.

Mann-Kendall statistic = -194
critical = -118

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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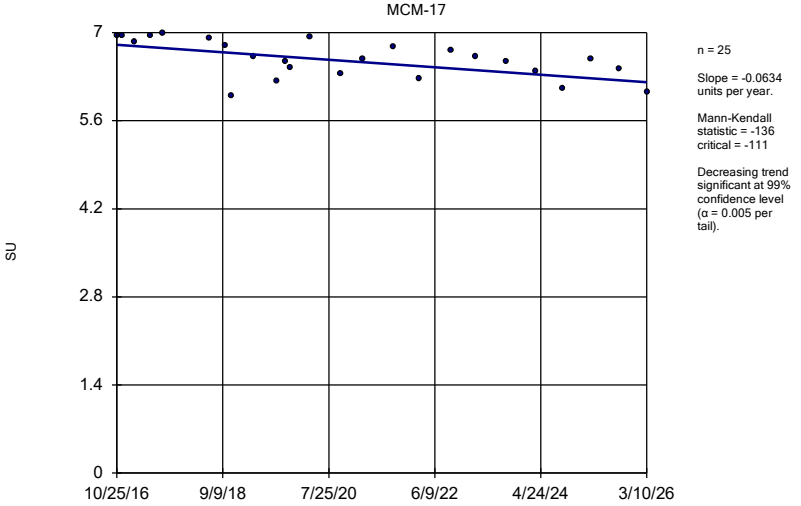
Sen's Slope Estimator

MCM-17



n = 25

Slope = -0.0634 units per year.

Mann-Kendall statistic = -136
critical = -111

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 4/16/2026 4:16 PM View: Appendix III - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

FIGURE F.

Upper Tolerance Limits

Plant McManus Client: Southern Company Data: McManus AP1 Printed 4/20/2026, 12:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	163	99.39	n/a	0.0002339	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.032	n/a	n/a	n/a	n/a	181	19.34	n/a	NaN	NP Inter(normality)
Barium (mg/L)	n/a	0.22	n/a	n/a	n/a	n/a	179	0	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.021	n/a	n/a	n/a	n/a	178	32.58	n/a	NaN	NP Inter(normality)
Cadmium (mg/L)	n/a	0.0043	n/a	n/a	n/a	n/a	161	97.52	n/a	0.0002591	NP Inter(NDs)
Chromium (mg/L)	n/a	0.05	n/a	n/a	n/a	n/a	163	63.19	n/a	0.0002339	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.036	n/a	n/a	n/a	n/a	178	78.09	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	34.9	n/a	n/a	n/a	n/a	169	0	n/a	0.0001719	NP Inter(normality)
Fluoride (mg/L)	n/a	3.98	n/a	n/a	n/a	n/a	182	45.05	n/a	NaN	NP Inter(normality)
Lead (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	178	89.89	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.0493	n/a	n/a	n/a	n/a	175	60.57	n/a	NaN	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0007	n/a	n/a	n/a	n/a	162	97.53	n/a	0.0002462	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	162	88.89	n/a	0.0002462	NP Inter(NDs)
Selenium (mg/L)	n/a	0.0727	n/a	n/a	n/a	n/a	155	72.26	n/a	0.0003525	NP Inter(NDs)
Thallium (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a	162	97.53	n/a	0.0002462	NP Inter(NDs)

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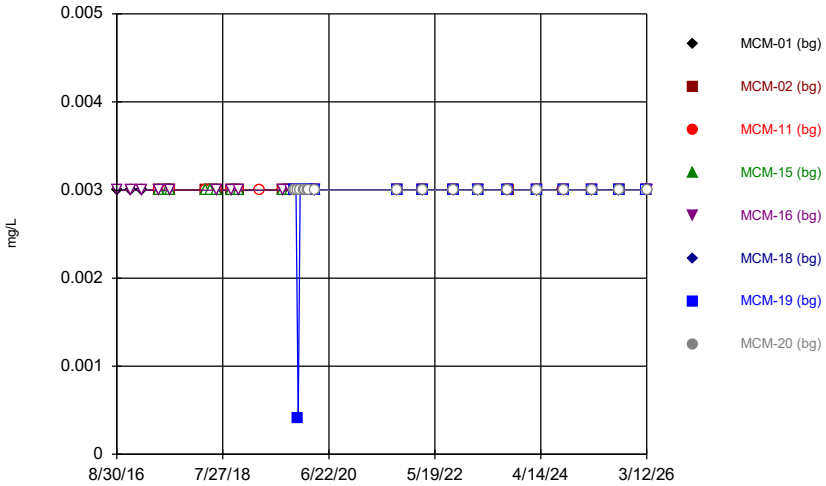
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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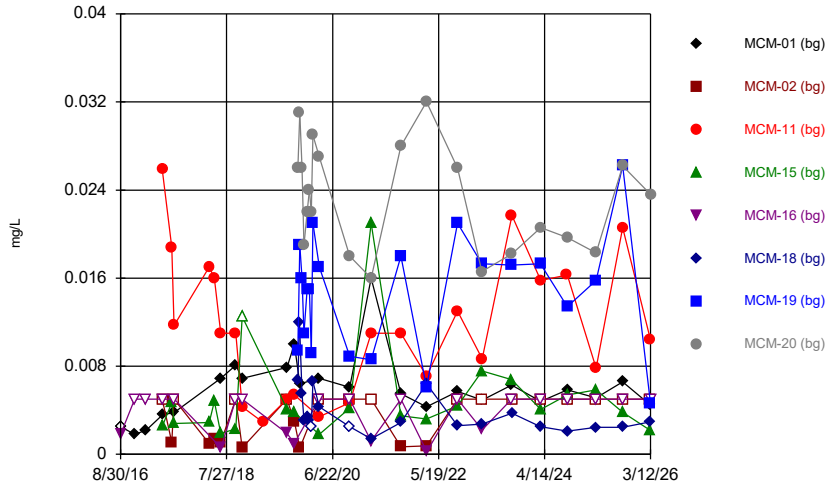
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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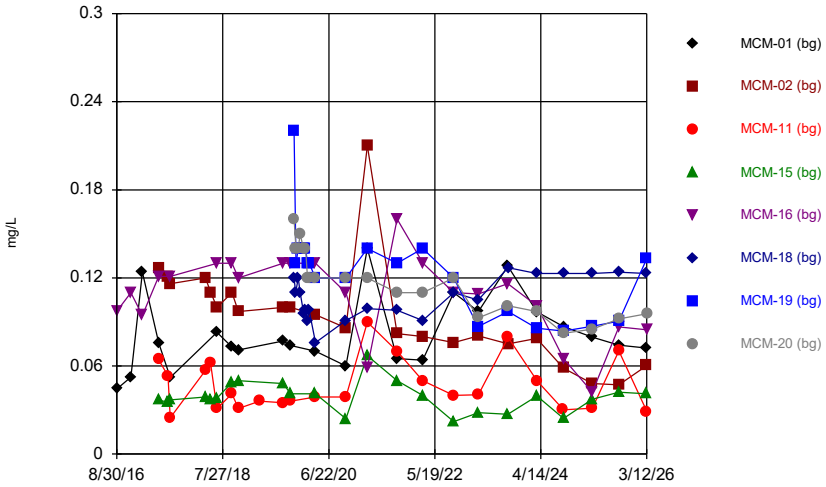
Time Series



Constituent: Barium Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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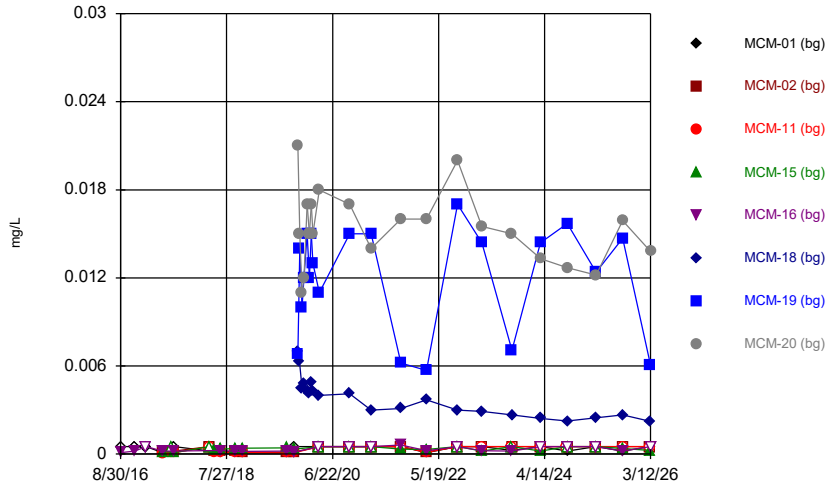
Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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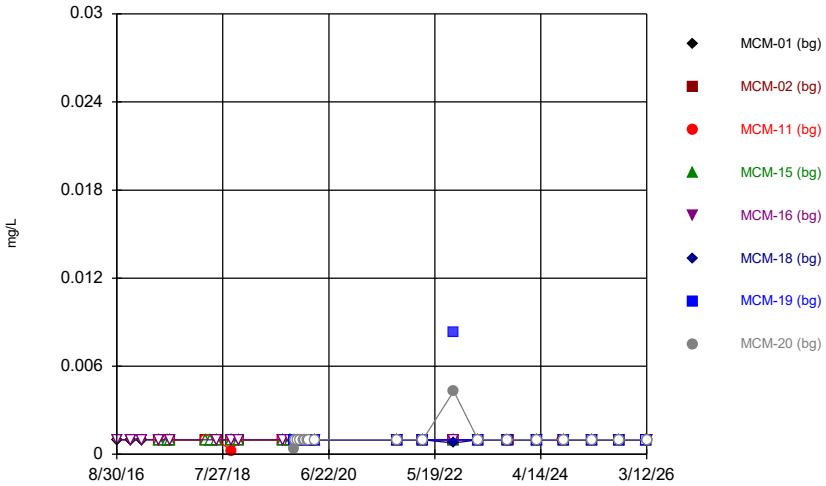
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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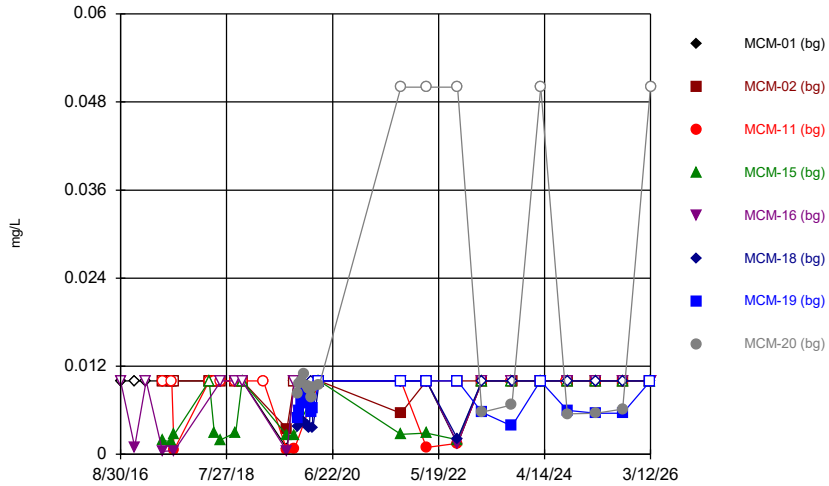
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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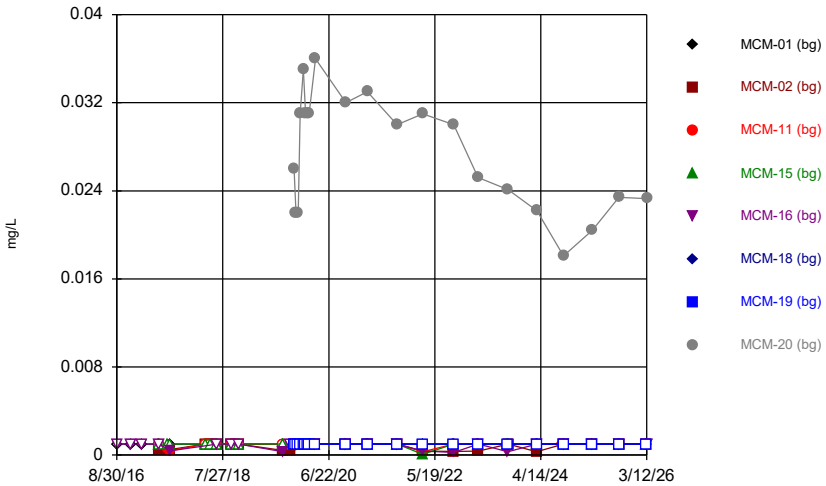
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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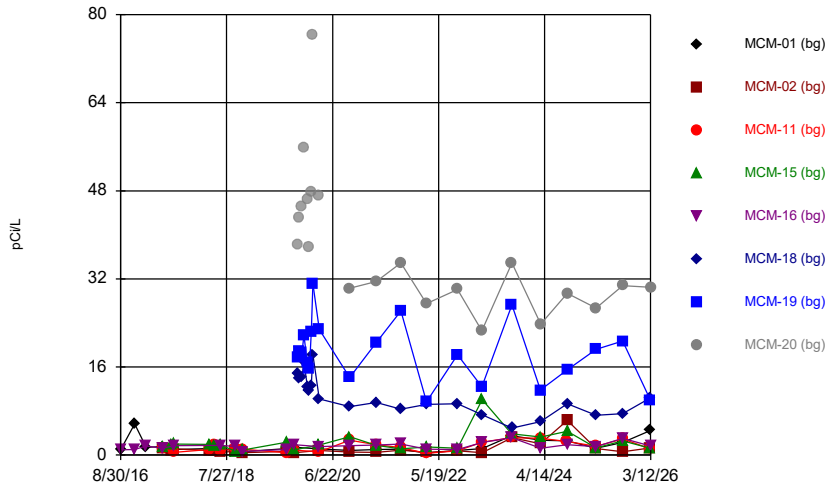
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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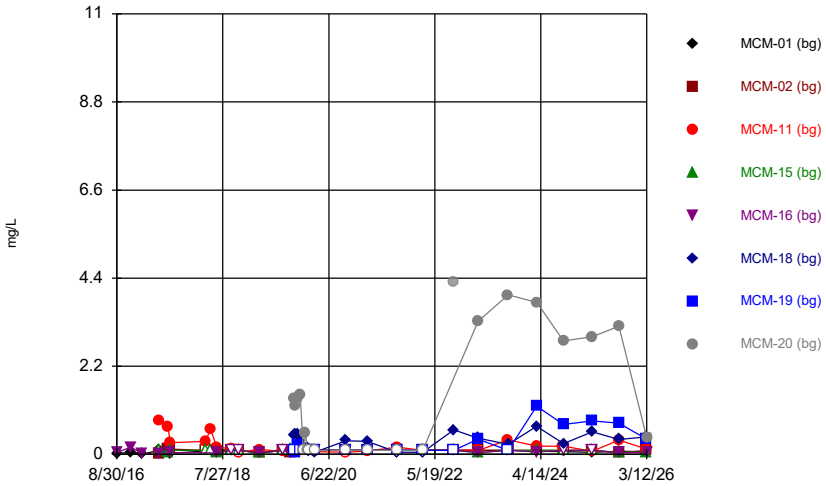
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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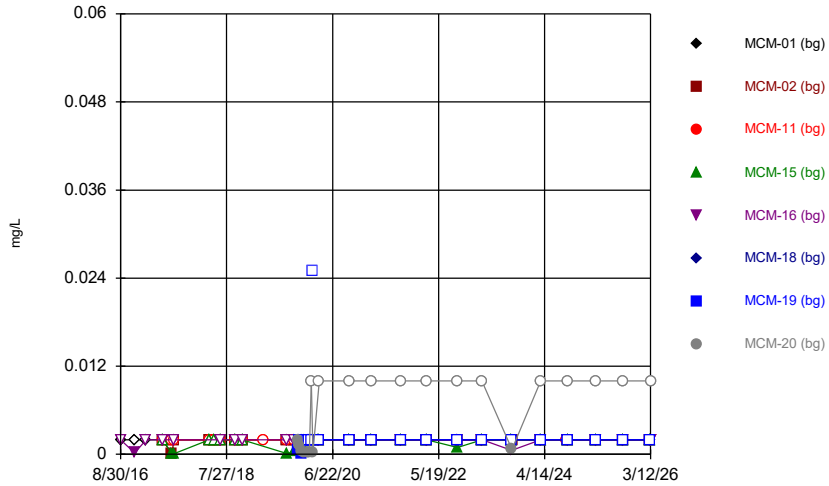
Time Series



Constituent: Lead Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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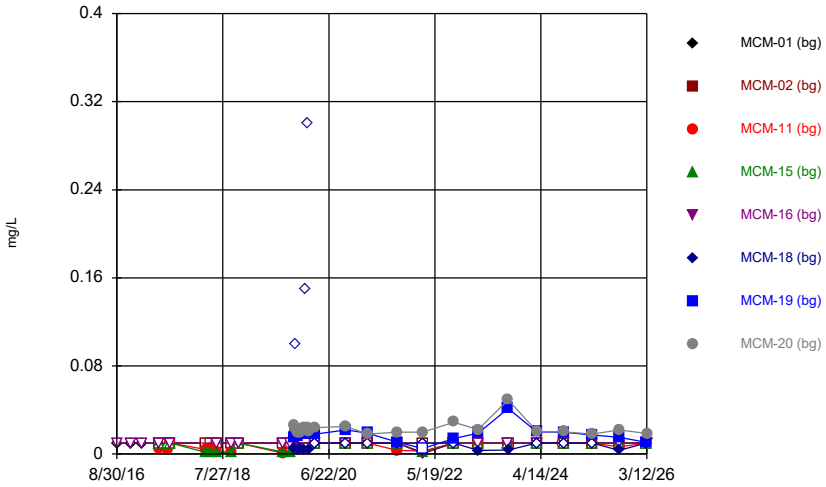
Time Series



Constituent: Lithium Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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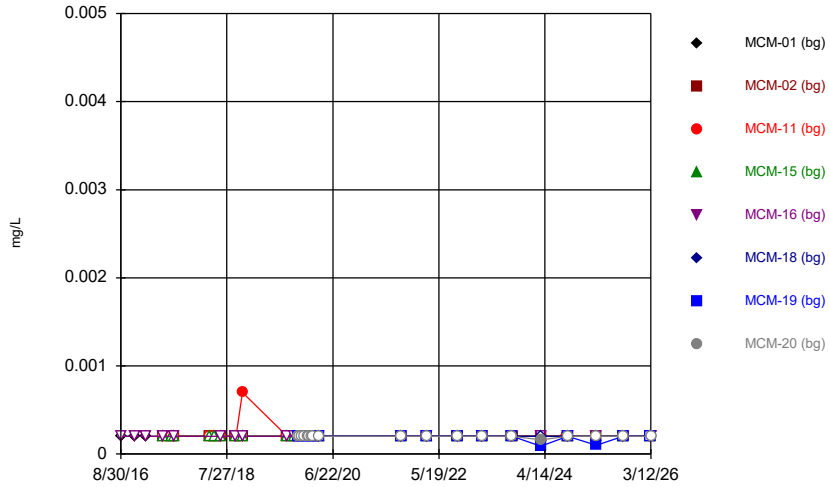
Hollow symbols indicate censored values.

Time Series



Constituent: Mercury Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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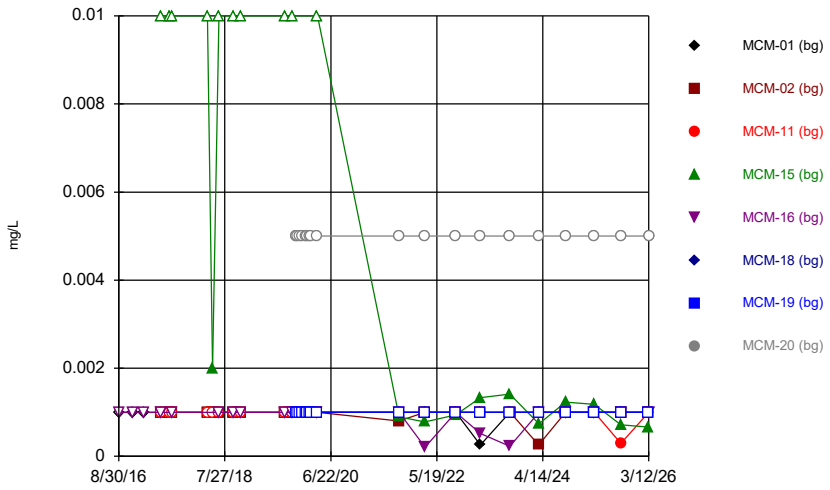
Hollow symbols indicate censored values.

Time Series



Constituent: Molybdenum Analysis Run 4/20/2026 12:39 PM View: UTLs
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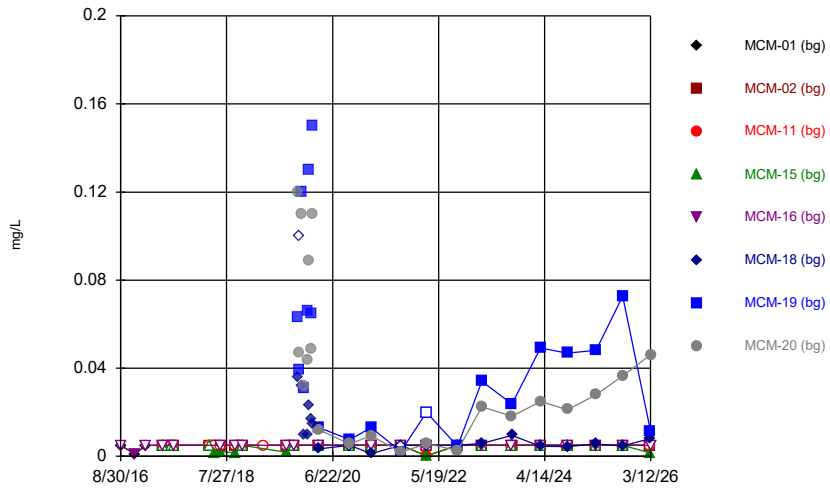
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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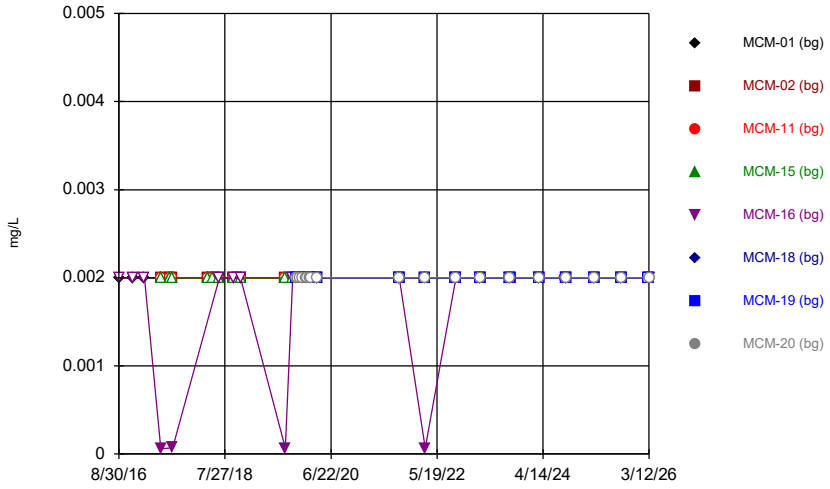
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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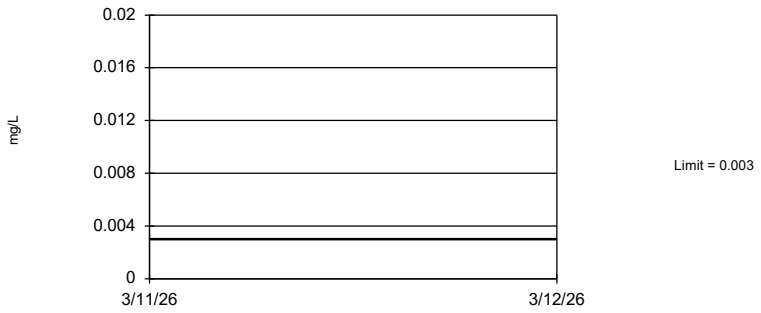
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 163 background values. 99.39% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002339.

Constituent: Antimony Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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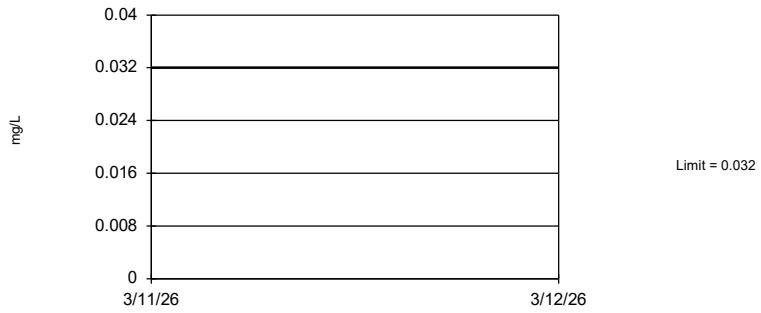
Tolerance Limit

Interwell Non-parametric



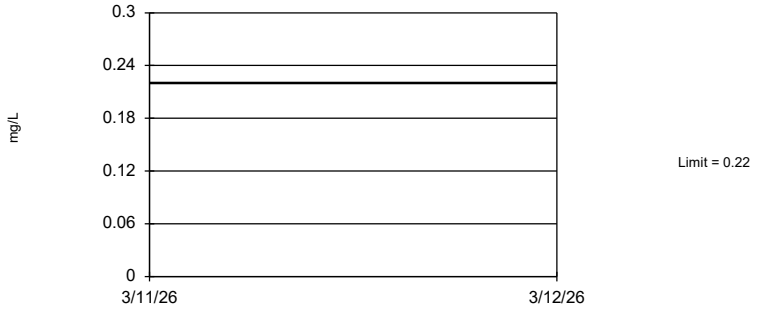
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 181 background values. 19.34% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Arsenic Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06 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 179 background values. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Barium Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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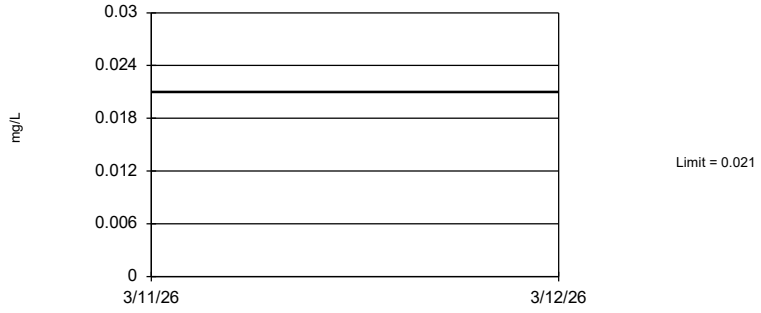
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 178 background values. 32.58% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Beryllium Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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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 161 background values. 97.52% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002591.

Constituent: Cadmium Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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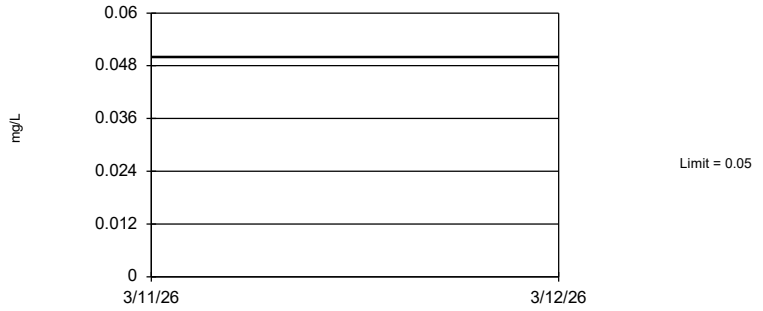
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 163 background values. 63.19% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002339.

Constituent: Chromium Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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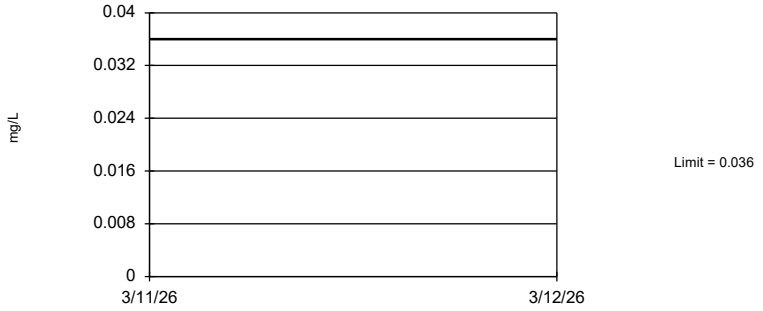
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 178 background values. 78.09% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cobalt Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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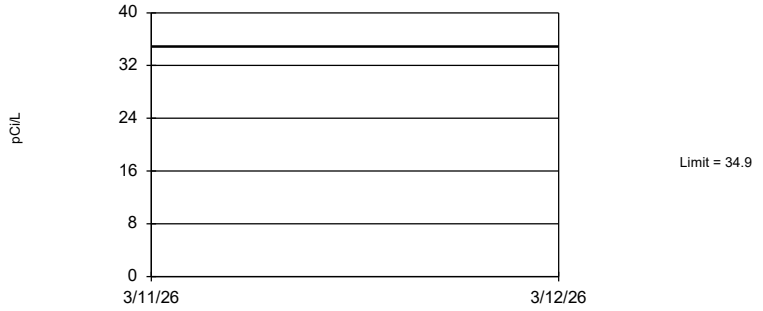
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 169 background values. 97.46% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0001719.

Constituent: Combined Radium 226 + 228 Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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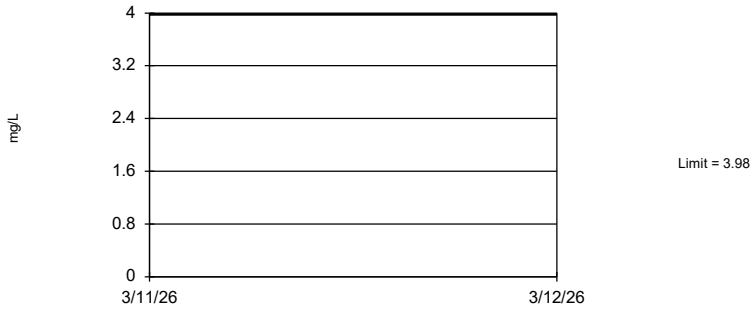
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 182 background values. 45.05% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Fluoride Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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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 178 background values. 89.89% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lead Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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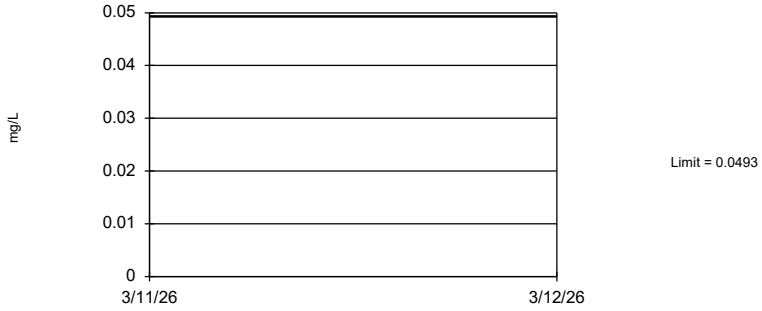
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 175 background values. 60.57% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lithium Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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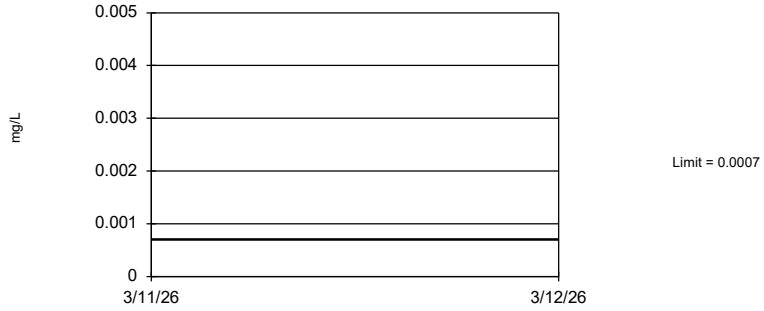
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 162 background values. 97.53% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002462.

Constituent: Mercury Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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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 162 background values. 88.89% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002462.

Constituent: Molybdenum Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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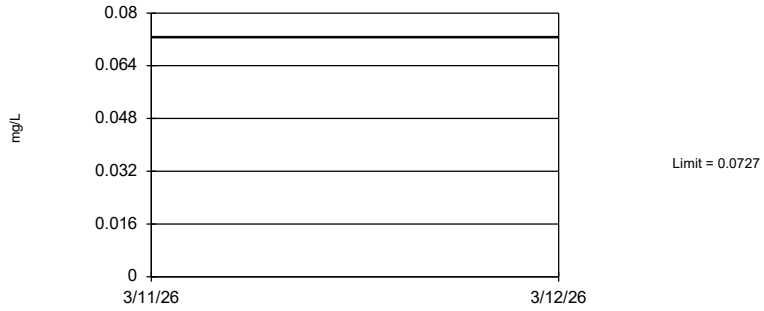
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 155 background values. 72.26% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0003525.

Constituent: Selenium Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

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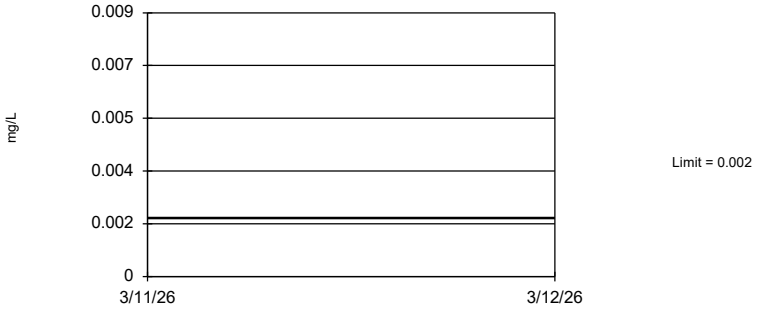
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 162 background values. 97.53% NDs. 97.07% coverage at alpha=0.01; 98.24% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.0002462.

Constituent: Thallium Analysis Run 4/20/2026 12:39 PM View: UTLs
Plant McManus Client: Southern Company Data: McManus AP1

FIGURE G.

MCMANUS ASH POND GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.032	0.032
Barium, Total (mg/L)	2		0.22	2
Beryllium, Total (mg/L)	0.004		0.021	0.021
Cadmium, Total (mg/L)	0.005		0.0043	0.005
Chromium, Total (mg/L)	0.1		0.05	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.036	0.036
Combined Radium, Total (pCi/L)	5		34.9	34.9
Fluoride, Total (mg/L)	4		3.98	4
Lead, Total (mg/L)	n/a	0.015	0.01	0.015
Lithium, Total (mg/L)	n/a	0.04	0.049	0.049
Mercury, Total (mg/L)	0.002		0.0007	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.005	0.1
Selenium, Total (mg/L)	0.05		0.073	0.073
Thallium, Total (mg/L)	0.002		0.002	0.002

**Gray cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE H.

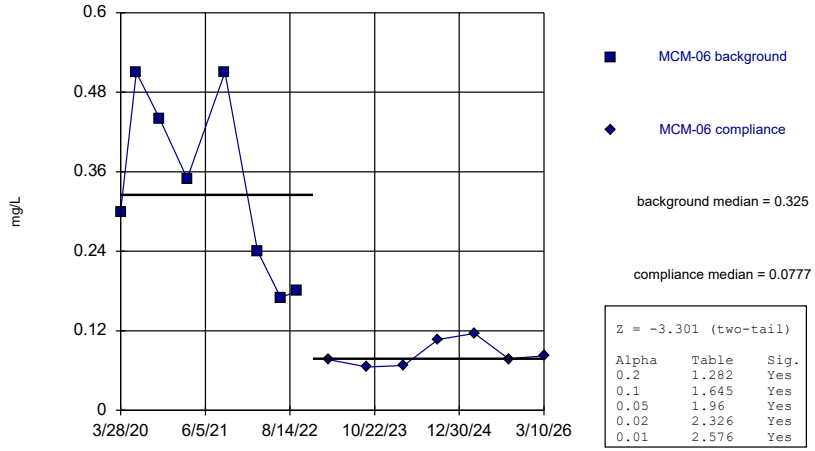
Mann-Whitney Test - Arsenic & Lithium MCM-06 - All/Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 4/23/2026, 11:59 AM

Constituent	Well	Calc.	0.01	Alpha	Sig.	Method
Arsenic (mg/L)	**MCM-06**	**-3.301**	**Yes**	**0.01**	**Yes**	**Mann-W**
Lithium (mg/L)	**MCM-06**	**-3.163**	**Yes**	**0.01**	**Yes**	**Mann-W**

Mann-Whitney (Wilcoxon Rank Sum)

MCM-06



Z = -3.301 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Arsenic Analysis Run 4/23/2026 11:58 AM View: Truncated View
Plant McManus Client: Southern Company Data: McManus AP1

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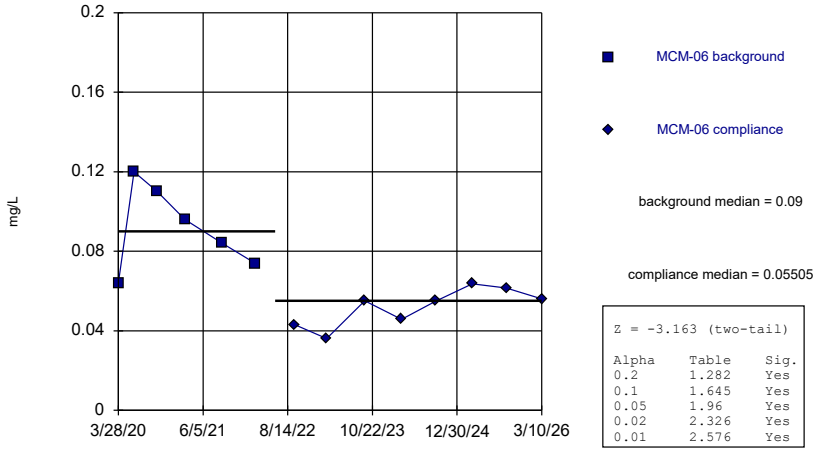
Mann-Whitney (Wilcoxon Rank Sum)

MCM-06



Z = -3.163 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Lithium Analysis Run 4/23/2026 11:58 AM View: Truncated View
Plant McManus Client: Southern Company Data: McManus AP1

Arsenic & Lithium MCM-06 Trend Tests - Truncated Record - All Results (No Significant)

Plant McManus Client: Southern Company Data: McManus AP1 Printed 4/23/2026, 12:04 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	MCM-06	0.006753	9	15	No	7	0	n/a	0.05	NP
Lithium (mg/L)	MCM-06	0.006158	16	17	No	8	0	n/a	0.05	NP

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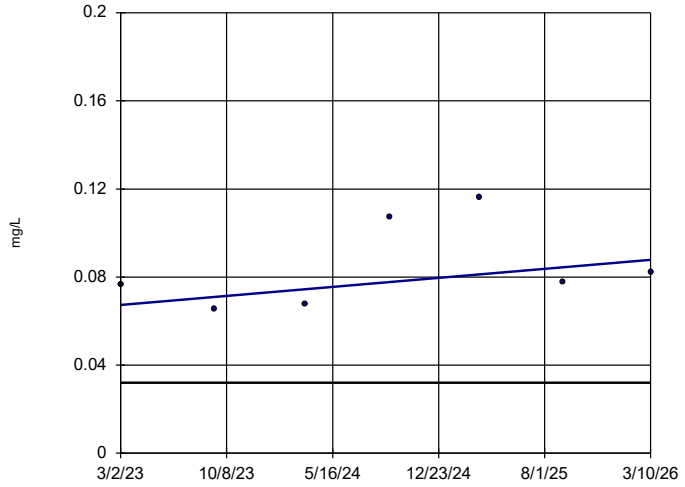
Sen's Slope Estimator

MCM-06



n = 7

Slope = 0.006753 units per year.

Mann-Kendall statistic = 9 critical = 15

Trend not significant at 95% confidence level (α = 0.025 per tail).

GWPS = 0.032.

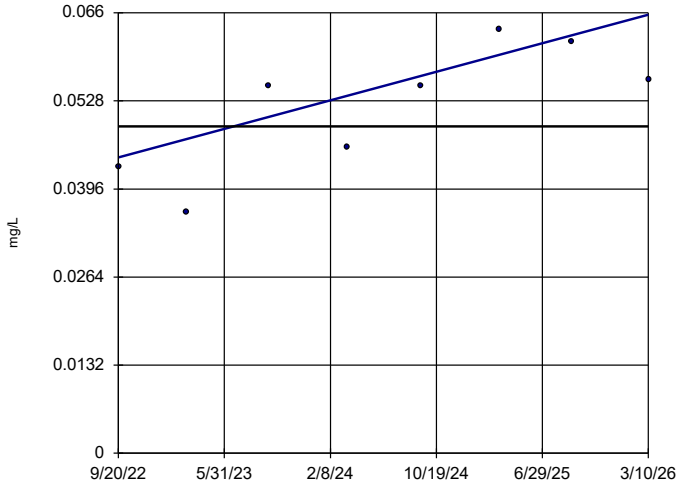
Constituent: Arsenic Analysis Run 4/23/2026 12:03 PM View: Truncated View

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06d Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MCM-06



n = 8

Slope = 0.006158 units per year.

Mann-Kendall statistic = 16 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

GWPS = 0.049.

Constituent: Lithium Analysis Run 4/23/2026 12:03 PM View: Truncated View

Plant McManus Client: Southern Company Data: McManus AP1

FIGURE I.

Appendix IV Confidence Intervals - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 7/14/2026, 3:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**MCM-06**	**0.1077**	**0.06145**	**0.032**	**Yes**	**7**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**DPZ-02**	**0.09061**	**0.06764**	**0.049**	**Yes**	**14**	**7.143**	**None**	**x^2**	**0.01**	**Param.**

Appendix IV Confidence Intervals - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 7/14/2026, 3:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MCM-05	0.003	0.00159	0.015	No	21	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	MCM-06	0.003	0.0029	0.015	No	22	86.36	None	No	0.01	NP (NDs)
Antimony (mg/L)	MCM-14	0.003	0.0004	0.015	No	21	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-04	0.005307	0.002824	0.032	No	23	13.04	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	MCM-05	0.01559	0.006091	0.032	No	39	7.692	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	**MCM-06**	**0.1077**	**0.06145**	**0.032**	**Yes**	**7**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	MCM-07	0.01592	0.01052	0.032	No	38	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MCM-12	0.005	0.00234	0.032	No	23	69.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-14	0.025	0.0022	0.032	No	24	58.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MCM-17	0.005	0.0024	0.032	No	24	54.17	None	No	0.01	NP (NDs)
Arsenic (mg/L)	DPZ-02	0.03024	0.01279	0.032	No	14	7.143	None	sqrt(x)	0.01	Param.
Barium (mg/L)	MCM-04	0.062	0.031	2	No	23	0	None	No	0.01	NP (normality)
Barium (mg/L)	MCM-05	0.0423	0.01478	2	No	24	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MCM-06	0.1445	0.0648	2	No	24	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	MCM-07	0.1573	0.08501	2	No	23	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	MCM-12	0.1122	0.0827	2	No	23	0	None	No	0.01	Param.
Barium (mg/L)	MCM-14	0.1131	0.05884	2	No	23	0	None	No	0.01	Param.
Barium (mg/L)	MCM-17	0.1142	0.06806	2	No	23	0	None	No	0.01	Param.
Barium (mg/L)	DPZ-02	0.07518	0.04873	2	No	12	0	None	No	0.01	Param.
Beryllium (mg/L)	MCM-04	0.0003568	0.0002123	0.021	No	23	43.48	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	MCM-05	0.0005	0.000054	0.021	No	24	95.83	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-07	0.0005	0.00012	0.021	No	23	86.96	Kaplan-Meier	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-12	0.001397	0.0007738	0.021	No	23	8.696	None	No	0.01	Param.
Beryllium (mg/L)	MCM-14	0.0005	0.0002	0.021	No	23	78.26	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MCM-17	0.0005	0.00024	0.021	No	23	43.48	None	No	0.01	NP (normality)
Cadmium (mg/L)	MCM-04	0.001	0.00043	0.005	No	21	95.24	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MCM-07	0.001	0.0002	0.005	No	21	95.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-04	0.01	0.0013	0.1	No	21	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-05	0.01	0.0012	0.1	No	21	66.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-06	0.01	0.0015	0.1	No	22	77.27	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-07	0.01	0.0023	0.1	No	21	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-12	0.0077	0.0054	0.1	No	21	23.81	None	No	0.01	NP (normality)
Chromium (mg/L)	MCM-14	0.01	0.0018	0.1	No	21	61.9	None	No	0.01	NP (NDs)
Chromium (mg/L)	MCM-17	0.01022	0.00613	0.1	No	21	19.05	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MCM-04	0.004364	0.002024	0.036	No	24	29.17	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MCM-05	0.0019	0.00026	0.036	No	24	91.67	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-06	0.001	0.0009	0.036	No	24	91.67	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-07	0.0011	0.00031	0.036	No	23	91.3	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-12	0.001	0.000456	0.036	No	23	43.48	None	No	0.01	NP (normality)
Cobalt (mg/L)	MCM-14	0.001	0.0006	0.036	No	23	95.65	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MCM-17	0.001	0.0007	0.036	No	23	86.96	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	MCM-04	4.787	2.911	34.9	No	23	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-05	3.719	1.861	34.9	No	24	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-06	7.361	3.741	34.9	No	23	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-07	8.436	5.632	34.9	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-12	3.168	2.339	34.9	No	23	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-14	6.984	4.081	34.9	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MCM-17	6.643	4.035	34.9	No	24	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	DPZ-02	8.976	5.579	34.9	No	12	0	None	No	0.01	Param.
Fluoride (mg/L)	MCM-04	0.12	0.0749	4	No	24	50	None	No	0.01	NP (normality)
Fluoride (mg/L)	MCM-05	0.5332	0.3141	4	No	26	11.54	None	No	0.01	Param.
Fluoride (mg/L)	MCM-06	0.3112	0.1241	4	No	24	33.33	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MCM-07	0.603	0.1	4	No	25	32	None	No	0.01	NP (normality)
Fluoride (mg/L)	MCM-12	1.356	1.101	4	No	24	4.167	None	x^2	0.01	Param.
Fluoride (mg/L)	MCM-14	0.273	0.1	4	No	26	50	None	No	0.01	NP (normality)
Fluoride (mg/L)	MCM-17	0.8678	0.4022	4	No	25	24	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	DPZ-02	0.789	0.1	4	No	12	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	MCM-05	0.01	0.0002	0.015	No	24	95.83	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-06	0.01	0.00012	0.015	No	24	95.83	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-07	0.01	0.0002	0.015	No	23	86.96	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-12	0.002	0.00083	0.015	No	23	73.91	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-14	0.01	0.00008	0.015	No	23	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	MCM-17	0.002	0.00034	0.015	No	23	86.96	None	No	0.01	NP (NDs)
Lithium (mg/L)	MCM-04	0.01	0.002	0.049	No	23	65.22	None	No	0.01	NP (NDs)
Lithium (mg/L)	MCM-05	0.042	0.022	0.049	No	24	0	None	No	0.01	NP (normality)

Appendix IV Confidence Intervals - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 7/14/2026, 3:52 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	MCM-06	0.06211	0.04194	0.049	No	8	0	None	No	0.01	Param.
Lithium (mg/L)	MCM-07	0.03748	0.01893	0.049	No	25	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	MCM-12	0.01123	0.009165	0.049	No	23	13.04	None	x^2	0.01	Param.
Lithium (mg/L)	MCM-14	0.04057	0.02375	0.049	No	25	8	None	No	0.01	Param.
Lithium (mg/L)	MCM-17	0.02518	0.01688	0.049	No	23	4.348	None	No	0.01	Param.
Lithium (mg/L)	**DPZ-02**	**0.09061**	**0.06764**	**0.049**	**Yes**	**14**	**7.143**	**None**	**x^2**	**0.01**	**Param.**
Mercury (mg/L)	MCM-04	0.00071	0.0002	0.002	No	21	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-05	0.0002	0.000042	0.002	No	21	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-06	0.0002	0.00016	0.002	No	22	95.45	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-07	0.00067	0.0002	0.002	No	21	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-14	0.00066	0.0002	0.002	No	21	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	MCM-17	0.00064	0.0002	0.002	No	21	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-04	0.001	0.000218	0.1	No	21	90.48	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-05	0.02	0.00113	0.1	No	21	52.38	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-06	0.005	0.0013	0.1	No	22	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MCM-07	0.005	0.00095	0.1	No	21	66.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-12	0.015	0.00044	0.1	No	21	66.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MCM-17	0.001	0.000374	0.1	No	21	71.43	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	DPZ-02	0.005	0.000245	0.1	No	10	60	None	No	0.011	NP (NDs)
Selenium (mg/L)	MCM-04	0.005	0.0025	0.05	No	23	86.96	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-05	0.025	0.0028	0.05	No	24	83.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-06	0.025	0.0054	0.05	No	24	66.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-07	0.025	0.00238	0.05	No	23	56.52	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-12	0.005	0.0021	0.05	No	23	65.22	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-14	0.025	0.0057	0.05	No	23	73.91	None	No	0.01	NP (NDs)
Selenium (mg/L)	MCM-17	0.025	0.0025	0.05	No	23	60.87	None	No	0.01	NP (NDs)
Selenium (mg/L)	DPZ-02	0.025	0.00205	0.05	No	12	83.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	MCM-06	0.002	0.000076	0.002	No	22	95.45	None	No	0.01	NP (NDs)

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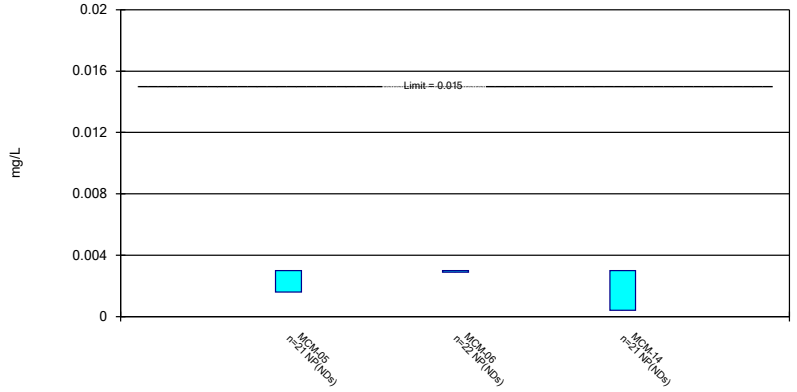
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 7/14/2026 3:51 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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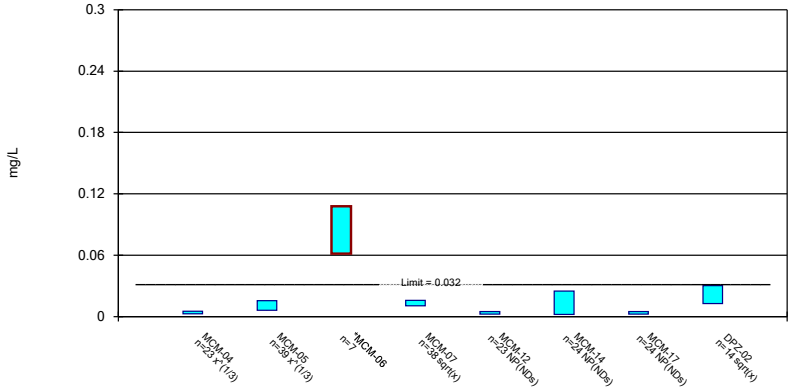
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 7/14/2026 3:51 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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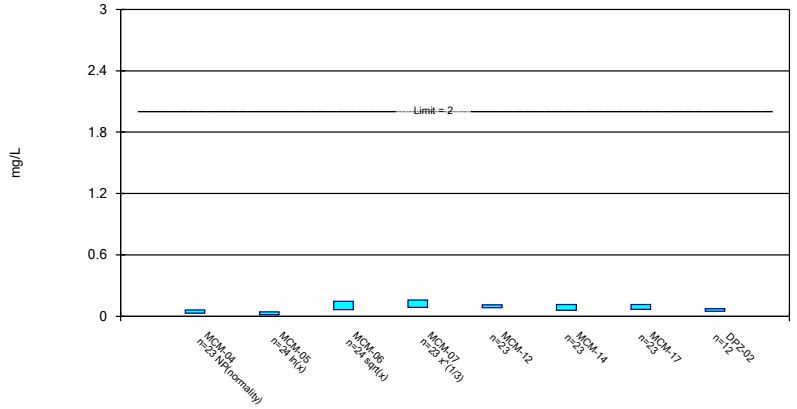
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 7/14/2026 3:51 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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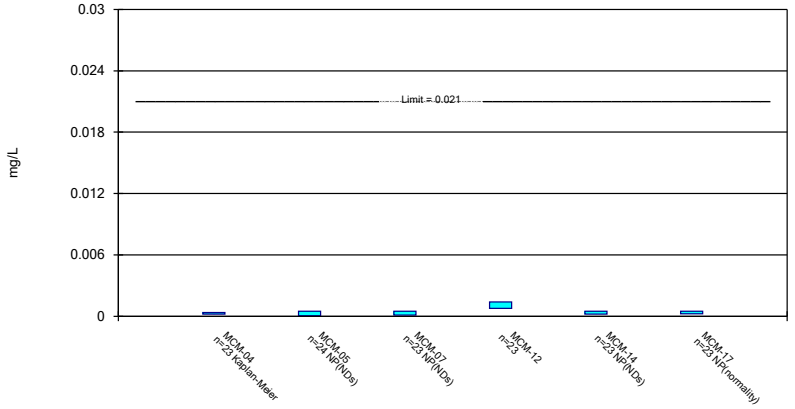
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 7/14/2026 3:51 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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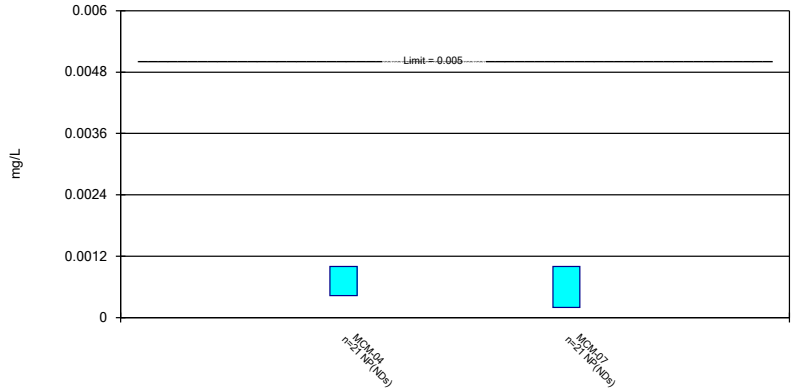
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 7/14/2026 3:51 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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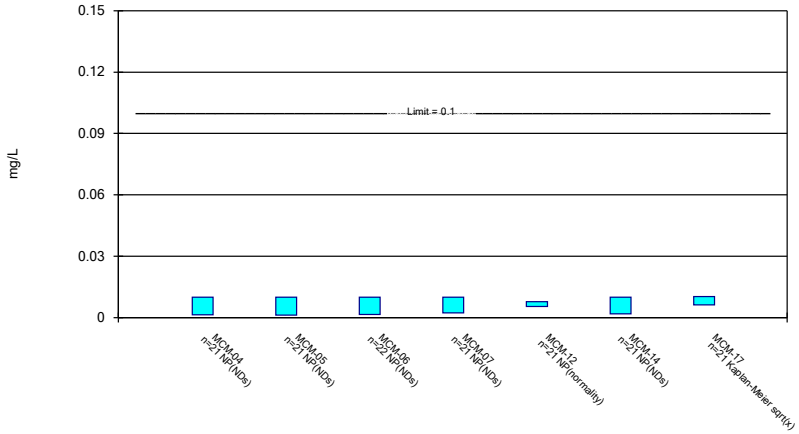
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 7/14/2026 3:51 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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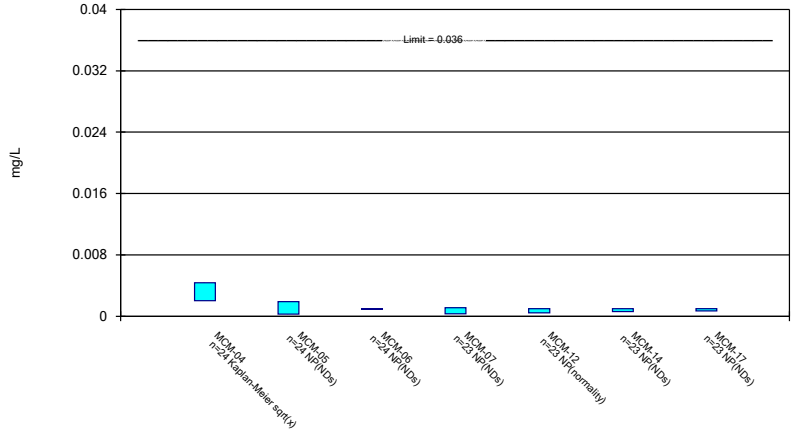
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/14/2026 3:51 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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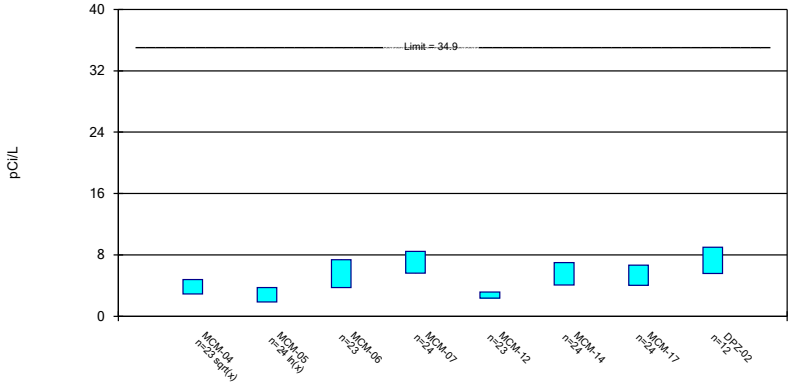
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/14/2026 3:51 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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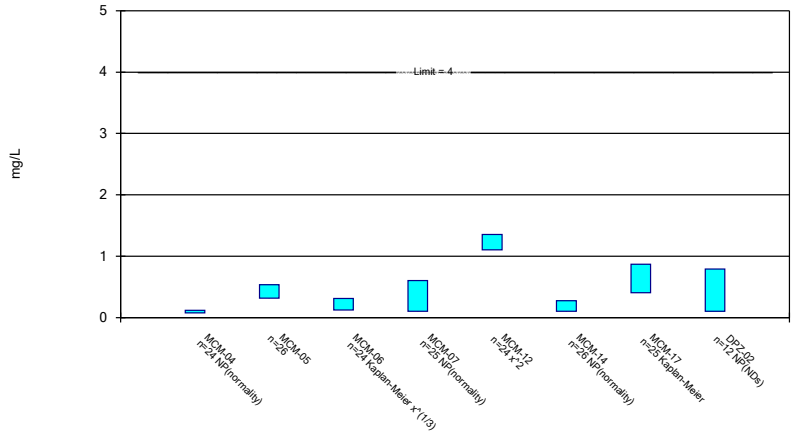
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 7/14/2026 3:51 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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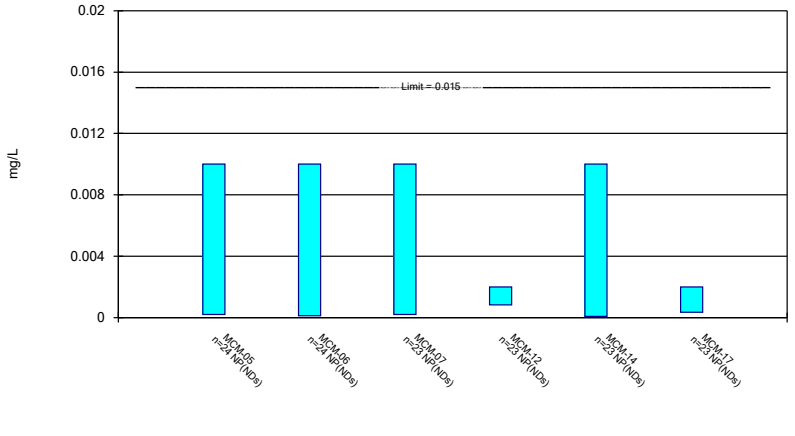
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 7/14/2026 3:51 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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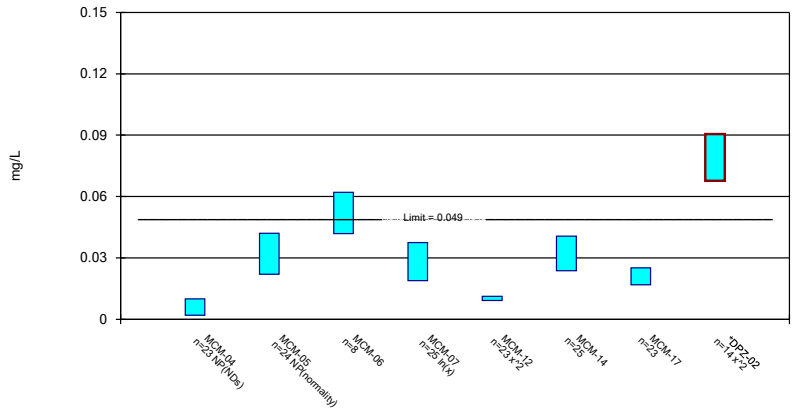
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 7/14/2026 3:51 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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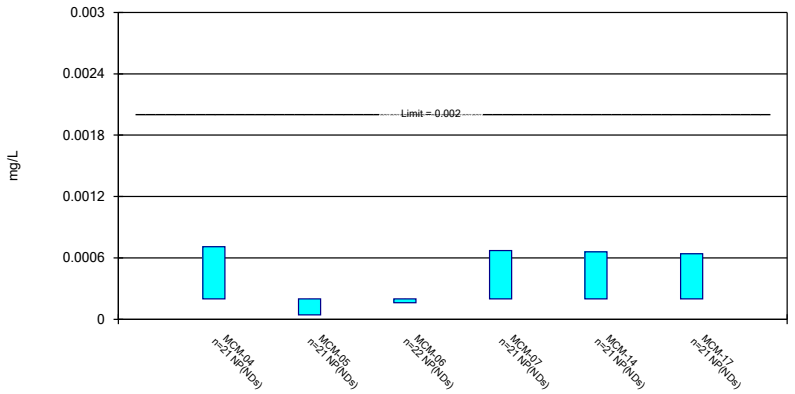
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 7/14/2026 3:51 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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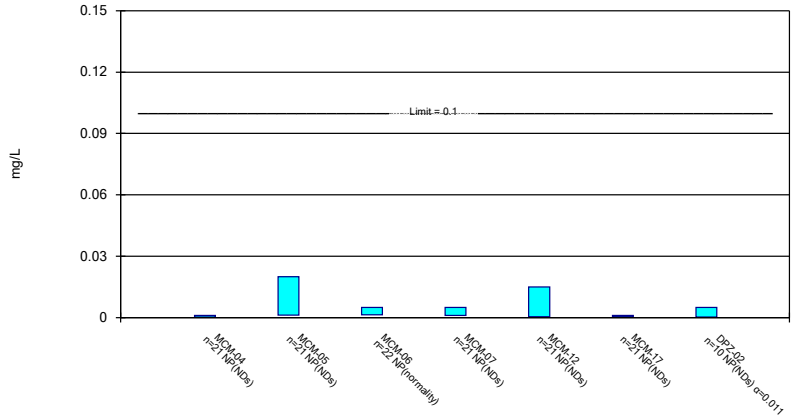
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Molybdenum Analysis Run 7/14/2026 3:51 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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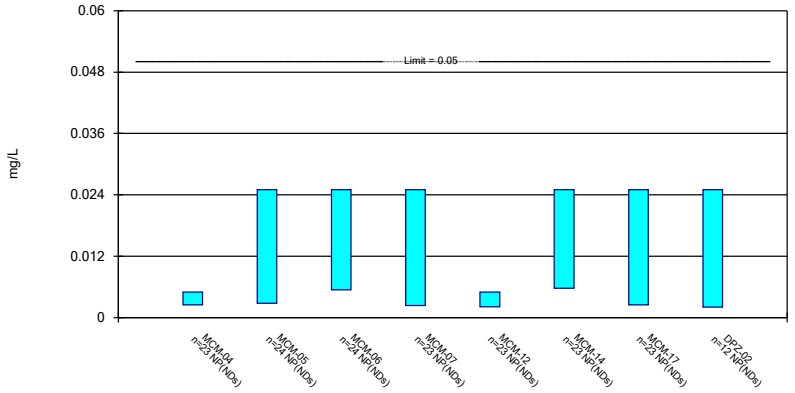
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 7/14/2026 3:51 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

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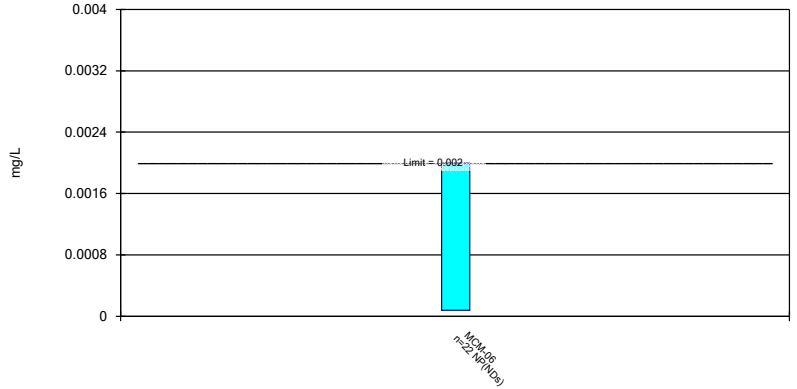
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 7/14/2026 3:51 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-05	MCM-06	MCM-14
8/30/2016			<0.003
8/31/2016	<0.003	<0.003	
11/30/2016	<0.003	<0.003	<0.003
2/15/2017			<0.003
2/16/2017	<0.003	<0.003	
5/31/2017			<0.003
6/2/2017	<0.003	<0.003	
8/16/2017			<0.003
8/17/2017	<0.003	<0.003	
6/19/2018			<0.003
6/20/2018	<0.003	<0.003	
9/25/2018			<0.003
9/27/2018	<0.003	<0.003	
11/6/2018			<0.003
11/7/2018	<0.003	<0.003	
3/6/2019		<0.003	
8/26/2019			0.0004 (J)
8/28/2019	<0.003	0.00098 (J)	
10/15/2019			<0.003
10/16/2019	<0.003		
10/17/2019		0.0009 (J)	
3/27/2020			<0.003
3/28/2020	<0.003	0.0029 (J)	
9/13/2021			<0.003
9/14/2021	<0.003	<0.003	
3/1/2022	<0.003	<0.003	
3/3/2022			<0.003
9/20/2022		<0.003	
9/21/2022	<0.003		<0.003
3/2/2023	<0.003	<0.003	<0.003
9/12/2023	<0.003		<0.003
9/14/2023		<0.003	
3/20/2024			<0.003
3/21/2024	<0.003	<0.003	
9/11/2024	<0.003		<0.003
9/12/2024		<0.003	
3/17/2025			<0.003
3/19/2025	0.00142 (J)	<0.003	
9/9/2025	0.00159 (J)	<0.003	<0.003
3/10/2026	<0.003	<0.003	<0.003
Mean	0.002858	0.002808	0.002876
Std. Dev.	0.0004505	0.0006052	0.0005674
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.00159	0.0029	0.0004

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					<0.005	<0.025		
8/31/2016		<0.02	0.212	0.0066				
10/25/2016							<0.005	
11/30/2016		0.0132	0.129	0.0281	<0.005	<0.025	0.0072	
2/15/2017					<0.005	<0.025	0.0017 (J)	
2/16/2017		0.0372	0.257	0.0295				
5/31/2017					0.0007 (J)	0.0008 (J)	0.0018 (J)	
6/1/2017	0.004 (J)							
6/2/2017		0.0335	0.0559	0.0286				
8/2/2017	0.0028 (J)							
8/15/2017					0.0006 (J)		0.0015 (J)	
8/16/2017						0.0007 (J)		
8/17/2017	0.0021 (J)	0.0336	0.458	0.0211				
2/20/2018		0.0267	0.305	0.0271				
4/4/2018	0.0023 (J)							
4/30/2018		0.025 (J)	0.36	0.016 (J)				
5/8/2018	0.0048 (J)							
6/19/2018					0.001 (J)	0.0062 (J)	0.0029 (J)	
6/20/2018	0.0099	0.019	0.44					
6/21/2018				0.022 (J)				
7/24/2018		0.0079	0.45	0.014				
8/28/2018		0.0079	0.36	0.014				
9/25/2018					0.0011 (J)	0.0031 (J)		
9/26/2018							0.0015 (J)	
9/27/2018	0.01	0.0035 (J)	0.27	0.015				
10/30/2018		0.0029 (J)	0.42	0.0061				
11/6/2018	0.013			0.012		0.0014 (J)	<0.005	
11/7/2018		0.002 (J)	0.5		<0.005			
11/27/2018		0.0016 (J)	0.5	0.011				
12/18/2018		0.0043 (J)	0.6	0.018				
1/22/2019		0.0028 (J)	0.48	0.0097				
2/22/2019		0.00095 (J)	0.46	0.024 (J)				
3/6/2019			0.49					
3/26/2019		0.0018 (J)	0.3	0.0078				
6/4/2019		0.0019 (J)	0.41	0.017				
7/2/2019		0.0024 (J)	0.37	0.027				
7/29/2019		0.0021 (J)	0.45	0.0053				
8/26/2019		0.0021 (J)	0.46	0.0052		0.0022 (J)		
8/27/2019	0.0072				0.0011 (J)		0.0024 (J)	
8/28/2019		0.0019 (J)	0.5	0.011				
9/30/2019		0.002 (J)		0.0036 (J)				
10/2/2019			0.6					
10/15/2019	0.0038 (J)				0.0024 (J)	0.0067		
10/16/2019		0.0047 (J)					0.0043 (J)	
10/17/2019			0.34	0.0046 (J)				
11/21/2019							0.0031 (J)	
3/27/2020					<0.005	<0.025	<0.005	
3/28/2020	0.0034 (J)	<0.02	0.3	0.012				<0.005
6/16/2020			0.51					
10/12/2020					<0.005			
10/13/2020	0.0022 (J)					<0.025	<0.005	
10/14/2020			0.44 (D)	0.013		<0.025		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
10/15/2020		0.024						0.021
1/4/2021		0.0072						
3/2/2021					<0.005	<0.025		
3/3/2021							<0.005	
3/4/2021	0.0018 (J)	<0.02	0.35	0.015 (J)				0.017 (J)
9/13/2021					<0.005	<0.025		
9/14/2021	0.0047 (J)	0.02 (J)	0.51	0.013 (J)			<0.005	0.022
3/1/2022		0.011 (J)	0.24					0.015 (J)
3/2/2022				0.009 (J)				
3/3/2022	0.0041				<0.005	<0.025	<0.005	
6/28/2022			0.17					0.025
9/20/2022			0.18					0.021
9/21/2022	0.0017 (J)	0.0077		0.01	<0.005	<0.025	<0.005	
2/28/2023					<0.005		0.00226 (J)	
3/1/2023	0.00247 (J)							
3/2/2023		0.00578 (J)	0.0764	0.014		0.00201 (J)		0.0202
9/12/2023		0.0113			0.00234 (J)	0.00263 (J)		
9/13/2023	0.00601			0.0117			0.00283 (J)	
9/14/2023			0.0653					0.0254
3/19/2024					<0.005		<0.005	
3/20/2024	<0.005					<0.025		
3/21/2024		0.017	0.0675	0.0107 (J)				0.0163 (J)
9/10/2024	<0.005				<0.005		<0.005	
9/11/2024		0.0249		0.00833		0.00215 (J)		0.0121
9/12/2024			0.107					
3/17/2025					<0.005	<0.025		
3/18/2025							<0.005	0.0185
3/19/2025		0.0447	0.116	0.0106				
3/20/2025	<0.005							
9/9/2025		0.0629	0.0777		<0.005	<0.025		
9/10/2025	0.00382 (J)							0.0351
9/11/2025				0.0104 (J)			<0.005	
3/10/2026	0.00403 (J)	0.0877	0.0821			<0.025	<0.005	0.0611
3/11/2026				0.00829	<0.005			
Mean	0.004419	0.01526	0.08457	0.01396	0.00388	0.01575	0.00402	0.0223
Std. Dev.	0.00297	0.01841	0.01947	0.007234	0.001774	0.01126	0.001545	0.01336
Upper Lim.	0.005307	0.01559	0.1077	0.01592	0.005	0.025	0.005	0.03024
Lower Lim.	0.002824	0.006091	0.06145	0.01052	0.00234	0.0022	0.0024	0.01279

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.108	0.0131		
8/31/2016		0.0289	0.0498	0.0771				
10/25/2016							0.063	
11/30/2016		0.0168	0.0528	0.101	0.121	0.0105	0.0628	
2/15/2017					0.111	0.0786	0.0102	
2/16/2017		0.016	0.0555	0.0865				
5/31/2017					0.131	0.0199	0.061	
6/1/2017	0.0195							
6/2/2017		0.0393 (J)	0.0508	0.123				
8/2/2017	0.053							
8/15/2017					0.126		0.0579	
8/16/2017						0.033		
8/17/2017	0.0475	0.0188	0.0596	0.124				
4/4/2018	0.035							
5/8/2018	0.027							
6/19/2018					0.13	0.092	0.076	
6/20/2018	0.027	0.014	0.06					
6/21/2018				0.1				
9/25/2018					0.12	0.098		
9/26/2018							0.099	
9/27/2018	0.14	0.0097 (J)	0.06	0.12				
11/6/2018	0.31			0.12		0.1	0.052	
11/7/2018		0.0085 (J)	0.19		0.11			
3/6/2019			0.16					
8/26/2019						0.12		
8/27/2019	0.083				0.14		0.11	
8/28/2019		0.011	0.13	0.4				
10/15/2019	0.082				0.14	0.12		
10/16/2019		0.012					0.14	
10/17/2019			0.13	0.35				
3/27/2020					0.12	0.13	0.16	
3/28/2020	0.039	0.0041 (J)	0.12	0.11				
10/12/2020					0.1			
10/13/2020	0.055					0.14	0.14	
10/14/2020			0.14	0.19				
10/15/2020		0.45						0.071
1/4/2021		0.051						
3/2/2021					0.1	0.16		
3/3/2021							0.17	
3/4/2021	0.062	0.0082 (J)	0.14	0.2				0.096
9/13/2021					0.086	0.16		
9/14/2021	0.043	0.08	0.22	0.2			0.2	0.082
3/1/2022		0.035	0.084					0.074
3/2/2022				0.12				
3/3/2022	0.031				0.069	0.15	0.1	
9/20/2022			0.027					0.069
9/21/2022	0.029	0.014		0.12	0.068	0.059	0.089	
2/28/2023					0.071 (J)		0.0828 (J)	
3/1/2023	0.031 (J)							
3/2/2023		0.0133 (J)	0.0195 (J)	0.0982 (J)		0.0356 (J)		0.0601 (J)
9/12/2023		0.0257			0.074	0.0306		
9/13/2023	0.0358			0.0745			0.0706	

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals
Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/14/2023			0.0456					0.0583
3/19/2024					0.0661		0.0776	
3/20/2024	0.0501					0.026		
3/21/2024		0.0287	0.0352	0.0493				0.0473
9/10/2024	0.063				0.0633		0.0724	
9/11/2024		0.023		0.0454		0.0279		0.0398
9/12/2024			0.0727					
3/17/2025					0.0658	0.109		
3/18/2025							0.0751	0.0462
3/19/2025		0.065	0.155	0.0492				
3/20/2025	0.0383							
9/9/2025		0.0834	0.338		0.0611	0.121		
9/10/2025	0.0285							0.0463
9/11/2025				0.0733			0.0682	
3/10/2026	0.0326	0.11	0.37			0.143	0.0588	0.0535
3/11/2026				0.0863	0.0606			
Mean	0.05923	0.0486	0.1152	0.1312	0.09747	0.08597	0.09115	0.06196
Std. Dev.	0.06062	0.08985	0.09147	0.08827	0.02824	0.05185	0.04414	0.01685
Upper Lim.	0.062	0.0423	0.1445	0.1573	0.1122	0.1131	0.1142	0.07518
Lower Lim.	0.031	0.01478	0.0648	0.08501	0.0827	0.05884	0.06806	0.04873

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016				0.0003 (J)	<0.0005	
8/31/2016		<0.0005	<0.0005			
10/25/2016						0.0004 (J)
11/30/2016		<0.0005	<0.0005	0.0004 (J)	<0.0005	0.0003 (J)
2/15/2017				0.0004 (J)	<0.0005	<0.0005
2/16/2017		<0.0005	<0.0005			
5/31/2017				0.0005 (J)	0.0001 (J)	0.0002 (J)
6/1/2017	0.0001 (J)					
6/2/2017		<0.0005	<0.0005			
8/2/2017	0.0003 (J)					
8/15/2017				0.0005 (J)		0.0002 (J)
8/16/2017					0.0002 (J)	
8/17/2017	0.0002 (J)	<0.0005	<0.0005			
4/4/2018	<0.0005					
5/8/2018	0.00025 (J)					
6/19/2018				0.00065 (J)	<0.0005	0.00032 (J)
6/20/2018	0.00021 (J)	<0.0005				
6/21/2018			<0.0005			
9/25/2018				0.00066 (J)	5E-05 (J)	
9/26/2018						0.00024 (J)
9/27/2018	0.00031 (J)	<0.0005	7.4E-05 (J)			
11/6/2018	0.00077 (J)		0.00012 (J)		9.7E-05 (J)	0.00026 (J)
11/7/2018		5.4E-05 (J)		0.00058 (J)		
8/26/2019					0.0001 (J)	
8/27/2019	0.00032 (J)			0.0009 (J)		0.00018 (J)
8/28/2019		<0.0005	<0.0005			
10/15/2019	0.00035 (J)			0.00079 (J)	<0.0005	
10/16/2019		<0.0005				0.00014 (J)
10/17/2019			7.8E-05 (J)			
3/27/2020				<0.005	<0.0005	<0.0005
3/28/2020	<0.0005	<0.0005	<0.0005			
10/12/2020				0.001 (J)		
10/13/2020	<0.0005				<0.0005	<0.0005
10/14/2020			<0.0005			
10/15/2020		<0.0005				
1/4/2021		<0.0005				
3/2/2021				<0.005	<0.0005	
3/3/2021						<0.0005
3/4/2021	<0.0005	<0.0005	<0.0005			
9/13/2021				0.0011	<0.0005	
9/14/2021	<0.0005	<0.0005	<0.0005			<0.0005
3/1/2022		<0.0005				
3/2/2022			<0.0005			
3/3/2022	0.00025			0.0012 (J)	<0.0005	<0.0005
9/21/2022	<0.0005	<0.0005	<0.0005	0.0011 (J)	<0.0005	0.00029 (J)
2/28/2023				0.00135 (J)		0.000279 (J)
3/1/2023	<0.0005					
3/2/2023		<0.0005	<0.0005		<0.0005	
9/12/2023		<0.0005		0.00137	<0.0005	
9/13/2023	<0.0005		<0.0005			0.000249 (J)
3/19/2024				0.00145		<0.0005
3/20/2024	0.000208 (J)				<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-07	MCM-12	MCM-14	MCM-17
3/21/2024		<0.0005	<0.0005			
9/10/2024	0.000321 (J)			0.00137		<0.0005
9/11/2024		<0.0005	<0.0005		<0.0005	
3/17/2025				0.00148	<0.0005	
3/18/2025						0.000228 (J)
3/19/2025		<0.0005	<0.0005			
3/20/2025	0.000323 (J)					
9/9/2025		<0.0005		0.00155	<0.0005	
9/10/2025	<0.0005					
9/11/2025			<0.0005			<0.0005
3/10/2026	<0.0005	<0.0005			<0.0005	<0.0005
3/11/2026			<0.0005	0.00131		
Mean	0.0003875	0.0004814	0.0004466	0.001085	0.0004151	0.0003603
Std. Dev.	0.0001538	9.104E-05	0.0001412	0.0005954	0.0001664	0.0001349
Upper Lim.	0.0003568	0.0005	0.0005	0.001397	0.0005	0.0005
Lower Lim.	0.0002123	5.4E-05	0.00012	0.0007738	0.0002	0.00024

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-07
8/31/2016		<0.001
11/30/2016		<0.001
2/16/2017		<0.001
6/1/2017	<0.001	
6/2/2017		<0.001
8/2/2017	<0.001	
8/17/2017	<0.001	<0.001
4/4/2018	<0.001	
5/8/2018	<0.001	
6/20/2018	<0.001	
6/21/2018		<0.001
9/27/2018	<0.001	<0.001
11/6/2018	<0.001	<0.001
8/27/2019	<0.001	
8/28/2019		<0.001
10/15/2019	<0.001	
10/17/2019		<0.001
3/28/2020	<0.001	<0.001
9/14/2021	<0.001	<0.001
3/2/2022		<0.001
3/3/2022	0.00043	
9/21/2022	<0.001	0.0002 (J)
3/1/2023	<0.001	
3/2/2023		<0.001
9/13/2023	<0.001	<0.001
3/20/2024	<0.001	
3/21/2024		<0.001
9/10/2024	<0.001	
9/11/2024		<0.001
3/19/2025		<0.001
3/20/2025	<0.001	
9/10/2025	<0.001	
9/11/2025		<0.001
3/10/2026	<0.001	
3/11/2026		<0.001
Mean	0.0009729	0.0009619
Std. Dev.	0.0001244	0.0001746
Upper Lim.	0.001	0.001
Lower Lim.	0.00043	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016					0.0054 (J)	0.0026 (J)	
8/31/2016		0.0013 (J)	0.001 (J)	0.0022 (J)			
10/25/2016							0.016
11/30/2016		0.0012 (J)	<0.01	<0.01	0.0073 (J)	0.0016 (J)	0.0151 (J)
2/15/2017					0.0045 (J)	0.0018 (J)	0.0137
2/16/2017		0.0012 (J)	0.0011 (J)	0.0028 (J)			
5/31/2017					0.0052 (J)	0.0019 (J)	0.0109
6/1/2017	0.0008 (J)						
6/2/2017		<0.01	<0.01	0.0023 (J)			
8/2/2017	0.0012 (J)						
8/15/2017					0.005 (J)		0.0117
8/16/2017						0.0019 (J)	
8/17/2017	0.0013 (J)	0.0007 (J)	0.0007 (J)	0.0022 (J)			
4/4/2018	<0.01						
5/8/2018	<0.01						
6/19/2018					0.0047 (J)	<0.01	0.013 (J)
6/20/2018	<0.01	<0.01	<0.01				
6/21/2018				<0.01			
9/25/2018					<0.02	<0.01	
9/26/2018							0.0092 (J)
9/27/2018	<0.01	<0.01	<0.01	0.0024 (J)			
11/6/2018	0.0017 (J)			0.002 (J)		<0.01	<0.02
11/7/2018		<0.01	<0.01		<0.02		
3/6/2019			<0.01				
8/26/2019						0.00071 (J)	
8/27/2019	0.0018 (J)				0.0056 (J)		0.0066 (J)
8/28/2019		0.00047 (J)	0.00085 (J)	0.0024 (J)			
10/15/2019	0.0012 (J)				0.0057 (J)	0.00076 (J)	
10/16/2019		0.00057 (J)					0.0063 (J)
10/17/2019			0.0015 (J)	0.0019 (J)			
3/27/2020					<0.02	<0.01	<0.02
3/28/2020	<0.01	<0.01	<0.01	<0.01			
9/13/2021					<0.02	<0.01	
9/14/2021	<0.01	<0.01	<0.01	<0.01			<0.02
3/1/2022		<0.01	<0.01				
3/2/2022				<0.01			
3/3/2022	0.00085 (J)				<0.02	<0.01	<0.02
9/20/2022			<0.01				
9/21/2022	0.0015 (J)	0.0016 (J)		0.0027 (J)	0.0077 (J)	0.0015 (J)	0.0063 (J)
2/28/2023					0.00663 (J)		0.00623 (J)
3/1/2023	<0.01						
3/2/2023		<0.01	<0.01	<0.01		<0.01	
9/12/2023		<0.01			0.00703 (J)	<0.01	
9/13/2023	<0.01			<0.01			0.00608 (J)
9/14/2023			<0.01				
3/19/2024					0.00689 (J)		0.00466 (J)
3/20/2024	<0.01					<0.01	
3/21/2024		<0.01	<0.01	<0.01			
9/10/2024	<0.01				0.00672 (J)		0.00441 (J)
9/11/2024		<0.01		<0.01		<0.01	
9/12/2024			<0.01				
3/17/2025					0.00739 (J)	<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
3/18/2025							0.00481 (J)
3/19/2025		<0.01	<0.01	<0.01			
3/20/2025	<0.01						
9/9/2025		<0.01	<0.01		0.00736 (J)	<0.01	
9/10/2025	0.00448 (J)						
9/11/2025				<0.01			0.00513 (J)
3/10/2026	<0.01	<0.01	<0.01			<0.01	0.00501 (J)
3/11/2026				<0.01	0.00748 (J)		
Mean	0.00642	0.007002	0.007961	0.00671	0.009552	0.006799	0.01072
Std. Dev.	0.004294	0.004351	0.00385	0.003898	0.00606	0.004198	0.005839
Upper Lim.	0.01	0.01	0.01	0.01	0.0077	0.01	0.01022
Lower Lim.	0.0013	0.0012	0.0015	0.0023	0.0054	0.0018	0.00613

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016					<0.001	0.0006 (J)	
8/31/2016		<0.001	<0.001	<0.001			
10/25/2016							<0.001
11/30/2016		<0.001	0.0009 (J)	0.0011 (J)	<0.001	<0.001	0.0007 (J)
2/15/2017					<0.001	<0.001	<0.001
2/16/2017		<0.001	<0.001	<0.001			
5/31/2017					0.0005 (J)	<0.001	<0.001
6/1/2017	<0.001						
6/2/2017		<0.001	<0.001	<0.001			
8/2/2017	<0.001						
8/15/2017					0.0005 (J)		0.0004 (J)
8/16/2017						<0.001	
8/17/2017	<0.001	<0.001	0.0003 (J)	<0.001			
4/4/2018	<0.001						
5/8/2018	<0.001						
6/19/2018					0.00053 (J)	<0.001	<0.001
6/20/2018	<0.001	<0.001	<0.001				
6/21/2018				<0.001			
9/25/2018					<0.001	<0.001	
9/26/2018							<0.001
9/27/2018	<0.001	<0.001	<0.001	<0.001			
11/6/2018	0.0048 (J)			<0.001		<0.001	<0.001
11/7/2018		<0.001	<0.001		<0.001		
3/6/2019			<0.001				
8/26/2019						<0.001	
8/27/2019	0.0078				0.0007 (J)		<0.001
8/28/2019		<0.001	<0.001	<0.001			
10/15/2019	0.0085				0.00054 (J)	<0.001	
10/16/2019		<0.001					<0.001
10/17/2019			<0.001	<0.001			
11/20/2019	0.009						
3/27/2020					<0.001	<0.001	<0.001
3/28/2020	0.0041 (J)	<0.001	<0.001	<0.001			
10/12/2020					<0.001		
10/13/2020	0.0063					<0.001	<0.001
10/14/2020			<0.001	<0.001			
10/15/2020		0.0019 (J)					
1/4/2021		<0.001					
3/2/2021					<0.001	<0.001	
3/3/2021							<0.001
3/4/2021	0.006	<0.001	<0.001	<0.001			
9/13/2021					<0.001	<0.001	
9/14/2021	0.0054	<0.001	<0.001	<0.001			<0.001
3/1/2022		<0.001	<0.001				
3/2/2022				<0.001			
3/3/2022	0.0049				<0.001	<0.001	<0.001
9/20/2022			<0.001				
9/21/2022	0.0025	0.00026 (J)		0.00031 (J)	0.00042 (J)	<0.001	0.00025 (J)
2/28/2023					0.00052 (J)		<0.001
3/1/2023	0.00256 (J)						
3/2/2023		<0.001	<0.001	<0.001		<0.001	
9/12/2023		<0.001			0.000429 (J)	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
9/13/2023	0.00341			<0.001			<0.001
9/14/2023			<0.001				
3/19/2024					0.000452 (J)		<0.001
3/20/2024	0.00291					<0.001	
3/21/2024		<0.001	<0.001	<0.001			
9/10/2024	0.00238				0.000453 (J)		<0.001
9/11/2024		<0.001		<0.001		<0.001	
9/12/2024			<0.001				
3/17/2025					0.000481 (J)	<0.001	
3/18/2025							<0.001
3/19/2025		<0.001	<0.001	<0.001			
3/20/2025	0.00268						
9/9/2025		<0.001	<0.001		0.000456 (J)	<0.001	
9/10/2025	0.00158						
9/11/2025				<0.001			<0.001
3/10/2026	0.0024	<0.001	<0.001			<0.001	<0.001
3/11/2026				<0.001	0.000445 (J)		
Mean	0.003509	0.001007	0.0009667	0.0009743	0.0007142	0.0009826	0.0009283
Std. Dev.	0.002539	0.0002429	0.0001435	0.0001463	0.0002619	8.341E-05	0.0002016
Upper Lim.	0.004364	0.0019	0.001	0.0011	0.001	0.001	0.001
Lower Lim.	0.002024	0.00026	0.0009	0.00031	0.000456	0.0006	0.0007

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					1.4	1.31		
8/31/2016		2.39	2.47	5.4				
10/25/2016							2.22	
11/30/2016		1.66	1.6	3.13	4.37	0.438	2.01	
2/15/2017					2.21	0.3	1.56	
2/16/2017		2.71	1.83	3.09				
5/31/2017					2.62	1.77	1.92	
6/1/2017	1.9							
6/2/2017		1.99	2.45	7.56				
8/2/2017	5.01							
8/15/2017					2.69		2.47	
8/16/2017						2.26		
8/17/2017	5.35	1.87	3.33	6.38				
4/4/2018	5.05							
5/8/2018	3.25							
6/19/2018					2.96	5.39	2.82	
6/20/2018	3.53	1.95	2.84					
6/21/2018				5.24				
9/25/2018					2.23	6.22		
9/26/2018							3.15 (D)	
9/27/2018	7.07	0.629 (U)	1.94	6.11				
11/6/2018	11			6.1		5.38	2.95	
11/7/2018		1.41 (U)	8.58		2.14			
8/26/2019						7.68		
8/27/2019	4.4				2.91		5.82	
8/28/2019		1.67	6.86	8.73				
10/15/2019	4.92				3.28	8.7		
10/16/2019		1.92					7.5	
10/17/2019			7.85	7.97				
11/20/2019				9.8				
11/21/2019						7.34	8.89	
3/27/2020					2.33	9.63	9.54	
3/28/2020	4.16	1.44 (U)	11	11.7				
10/12/2020					2.66			
10/13/2020	3.71					7.43	7.75	
10/14/2020			8.97	13.1				
10/15/2020		2.56						6.65
1/4/2021		5.84						
4/6/2021	2.83	1.43 (U)	7.89	9.66	2.2	7.02	7.8	7.33
9/13/2021					2.54	8.38		
9/14/2021	2.69	7.15	8.11	10.3			8.82	6.97
3/1/2022		8.16 (U)	5.83					9.03
3/2/2022				5.66				
3/3/2022	2.51				3.56 (U)	8	9.1	
9/20/2022			1.51					8.2
9/21/2022	1.67	1.42		8.23	1.54	4.52	5.26	
2/28/2023					2.29		5.48	
3/1/2023	5.05							
3/2/2023		2.22	1.79	4.5		8.08		9.42
9/12/2023		4.42			3.43	5.46		
9/13/2023	2.05			10.3			4.44	
9/14/2023			3.61					11.7

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/19/2024					2.79		5.64	
3/20/2024	2.61					2.14		
3/21/2024		2.48	2.73	6.37				4.89
9/10/2024	4.33				4.8		4.29	
9/11/2024		2.55		5.35		3.4		7.95
9/12/2024			5.25					
3/17/2025					3.37	6.6		
3/18/2025							6.41	4.64
3/19/2025		5.29	8.33	4.55				
3/20/2025	3.92							
9/9/2025		7.73	11.8		2.52	8.36		
9/10/2025	2.28							6.24
9/11/2025				6.67			5.59	
3/10/2026	2.57	8.42	11.1			6.97	6.7	4.31
3/11/2026				2.91	2.49			
Mean	3.994	3.305	5.551	7.034	2.753	5.532	5.339	7.278
Std. Dev.	2.038	2.415	3.46	2.748	0.7916	2.844	2.556	2.165
Upper Lim.	4.787	3.719	7.361	8.436	3.168	6.984	6.643	8.976
Lower Lim.	2.911	1.861	3.741	5.632	2.339	4.081	4.035	5.579

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					1.5	0.5		
8/31/2016		0.93	0.41	0.92				
10/25/2016							1.1	
11/30/2016		0.93	0.61	0.99	1.4	0.49	1.3	
2/15/2017					1.3	0.58	1.3	
2/16/2017		0.6	0.3 (J)	0.54				
5/31/2017					1.2	0.56	1.3	
6/1/2017	<0.1							
6/2/2017		0.34	0.19 (J)	0.42				
8/2/2017	0.27 (J)							
8/15/2017					1.2		1.2	
8/16/2017						0.45		
8/17/2017	0.18 (J)	0.52	0.26 (J)	0.27 (J)				
4/4/2018	<0.1							
5/8/2018	0.56							
6/19/2018					0.91	<0.1	0.6	
6/20/2018	0.033 (J)	0.5	0.22 (J)					
6/21/2018				0.28 (J)				
9/25/2018					1.1	<0.1		
9/26/2018							0.44 (D)	
9/27/2018	0.12 (J)	0.32	0.068 (J)	0.32				
11/6/2018	<0.1			0.086 (J)		0.084 (J)	0.4	
11/7/2018		0.35	10.3 (O)		<0.1			
3/6/2019			<0.1					
3/24/2019		0.32	0.19 (J)	0.14 (J)	0.99	0.14 (J)	0.31	
3/25/2019	0.055 (J)							
8/26/2019						<0.1		
8/27/2019	<0.1				1.1		<0.1	
8/28/2019		0.36	<0.1	<0.1				
10/15/2019	0.095 (J)				1	<0.1		
10/16/2019		0.41					0.083 (J)	
10/17/2019			<0.1	<0.1				
11/20/2019		0.34		<0.1				
11/21/2019						<0.1	<0.1	
3/27/2020					1.1	<0.1	<0.1	
3/28/2020	<0.1	0.34	<0.1	<0.1				
10/12/2020					1.2			
10/13/2020	<0.1					<0.1	<0.1	
10/14/2020			<0.1	<0.1				
10/15/2020		0.22						0.11
1/4/2021		<0.1						
3/2/2021					1	<0.1		
3/3/2021							0.58 (J)	
3/4/2021	<0.1	0.45	<0.1	<0.1				<0.1
7/1/2021						<0.1		
9/13/2021					1.4	<0.1		
9/14/2021	<0.1	<0.1	<0.1	<0.1			<0.1	<0.1
3/1/2022		<0.1	<0.1					<0.1
3/2/2022				<0.1				
3/3/2022	<0.1				0.95	<0.1	<0.1	
9/20/2022			1.1 (J)					<0.1
9/21/2022	<0.1	0.48		0.18	1.3	0.12	0.78	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
2/28/2023					1.21		0.815	
3/1/2023	<0.1							
3/2/2023		0.388	0.419 (J)	0.44 (J)		0.188 (J)		<0.1
9/12/2023		0.374			1.32	<0.1		
9/13/2023	0.0941 (J)			0.982			1.46	
9/14/2023			0.246 (J)					<0.1
3/19/2024					1.34		0.959 (J)	
3/20/2024	0.0744 (J)					0.294 (J)		
3/21/2024		0.277	0.469 (J)	0.814 (J)				<0.1
9/10/2024	0.0749 (J)				1.67		0.986 (J)	
9/11/2024		0.654		0.692		0.164 (J)		<0.1
9/12/2024			0.392 (J)					
3/17/2025					1.36	0.273 (J)		
3/18/2025							1.45	0.789 (J)
3/19/2025		0.557	0.407 (J)	0.798 (J)				
3/20/2025	0.0536 (J)							
9/9/2025		0.719	0.272 (J)		1.51	<0.1		
9/10/2025	<0.1							0.37 (J)
9/11/2025				0.589			0.995	
3/10/2026	0.0536 (J)	0.486 (J)	0.28 (J)			0.224 (J)	0.858	3.19
3/11/2026				0.603	1.58			
Mean	0.1193	0.4237	0.2764	0.3946	1.195	0.2064	0.7006	0.4383
Std. Dev.	0.1044	0.2247	0.2291	0.319	0.3185	0.1648	0.491	0.8905
Upper Lim.	0.12	0.5332	0.3112	0.603	1.356	0.273	0.8678	0.789
Lower Lim.	0.0749	0.3141	0.1241	0.1	1.101	0.1	0.4022	0.1

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
8/30/2016				0.0001 (J)	<0.01	
8/31/2016	<0.01	<0.01	<0.01			
10/25/2016						<0.002
11/30/2016	0.0002 (J)	<0.01	<0.01	<0.002	<0.01	<0.002
2/15/2017				<0.002	<0.01	<0.002
2/16/2017	<0.01	<0.01	0.0002 (J)			
5/31/2017				9E-05 (J)	<0.01	<0.002
6/2/2017	<0.01	<0.01	<0.01			
8/15/2017				<0.002		0.0002 (J)
8/16/2017					8E-05 (J)	
8/17/2017	<0.01	<0.01	8E-05 (J)			
6/19/2018				<0.002	<0.01	<0.002
6/20/2018	<0.01	<0.01				
6/21/2018			<0.01			
9/25/2018				<0.002	<0.01	
9/26/2018						<0.002
9/27/2018	<0.01	<0.01	<0.01			
11/6/2018			<0.01		<0.01	<0.002
11/7/2018	<0.01	<0.01		<0.002		
3/6/2019		<0.01				
8/26/2019					<0.01	
8/27/2019				0.00022 (J)		0.00014 (J)
8/28/2019	<0.01	<0.01	0.0001 (J)			
10/15/2019				5.6E-05 (J)	<0.01	
10/16/2019	<0.01					0.00034 (J)
10/17/2019		0.00012 (J)	<0.01			
3/27/2020				<0.002	<0.01	<0.002
3/28/2020	<0.01	<0.01	<0.01			
10/12/2020				<0.002		
10/13/2020					<0.01	<0.002
10/14/2020		<0.01	<0.01			
10/15/2020	<0.01					
1/4/2021	<0.01					
3/2/2021				<0.002	<0.01	
3/3/2021						<0.002
3/4/2021	<0.01	<0.01	<0.01			
9/13/2021				<0.002	<0.01	
9/14/2021	<0.01	<0.01	<0.01			<0.002
3/1/2022	<0.01	<0.01				
3/2/2022			<0.01			
3/3/2022				<0.002	<0.01	<0.002
9/20/2022		<0.01				
9/21/2022	<0.01		<0.01	0.00083 (J)	<0.01	<0.002
2/28/2023				<0.002		<0.002
3/2/2023	<0.01	<0.01	<0.01		<0.01	
9/12/2023	<0.01			<0.002	<0.01	
9/13/2023			<0.01			<0.002
9/14/2023		<0.01				
3/19/2024				<0.002		<0.002
3/20/2024					<0.01	
3/21/2024	<0.01	<0.01	<0.01			
9/10/2024				<0.002		<0.002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17
9/11/2024	<0.01		<0.01		<0.01	
9/12/2024		<0.01				
3/17/2025				<0.002	<0.01	
3/18/2025						<0.002
3/19/2025	<0.01	<0.01	<0.01			
9/9/2025	<0.01	<0.01		0.00073 (J)	<0.01	
9/11/2025			<0.01			<0.002
3/10/2026	<0.01	<0.01			<0.01	<0.002
3/11/2026			<0.01	<0.002		
Mean	0.009592	0.009588	0.008712	0.001566	0.009569	0.001769
Std. Dev.	0.002	0.002017	0.0034	0.0007646	0.002068	0.0006114
Upper Lim.	0.01	0.01	0.01	0.002	0.01	0.002
Lower Lim.	0.0002	0.00012	0.0002	0.00083	8E-05	0.00034

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0102 (J)	0.0112 (J)		
8/31/2016		0.0219 (J)	0.0389 (J)	0.0122 (J)				
10/25/2016							0.007 (J)	
11/30/2016		0.0333 (J)	0.0303 (J)	0.011 (J)	0.0106 (J)	<0.01	0.0086 (J)	
2/15/2017					0.0115 (J)	0.0105 (J)	0.0149 (J)	
2/16/2017		0.0376 (J)	0.05 (J)	0.0142 (J)				
5/31/2017					0.011 (J)	0.0106 (J)	0.019 (J)	
6/1/2017	<0.01							
6/2/2017		0.0346 (J)	0.0477 (J)	0.0229 (J)				
8/2/2017	<0.01							
8/15/2017					0.0123 (J)		0.016 (J)	
8/16/2017						0.0145 (J)		
8/17/2017	<0.01	0.0367 (J)	0.0645	0.0241 (J)				
4/4/2018	0.0013 (J)							
5/8/2018	0.0012 (J)							
6/19/2018					0.012 (J)	0.044 (J)	0.021 (J)	
6/20/2018	0.0015 (J)	0.034 (J)	0.066 (J)					
6/21/2018				0.03 (J)				
9/25/2018					0.011 (J)	0.041 (J)		
9/26/2018							0.02 (J)	
9/27/2018	0.0021 (J)	0.023 (J)	0.045 (J)	0.034 (J)				
11/6/2018	0.0038 (J)			0.037 (J)		0.047 (J)	0.017 (J)	
11/7/2018		0.022 (J)	0.11		0.013 (J)			
3/6/2019			0.12					
8/26/2019						0.059		
8/27/2019	0.002 (J)				0.012 (J)		0.023 (J)	
8/28/2019		0.023 (J)	0.13	0.12				
10/15/2019	0.0019 (J)				0.012 (J)	0.056 (J)		
10/16/2019		0.021 (J)					0.024 (J)	
10/17/2019			0.12	0.096				
11/20/2019				0.12				
11/21/2019						0.052		
3/27/2020					<0.01	0.052	0.033 (J)	
3/28/2020	<0.01	0.014 (J)	0.064	0.027 (J)				0.078
6/16/2020			0.12 (J)	0.049 (J)				0.096 (J)
10/12/2020					0.011 (J)			
10/13/2020	<0.01					0.046 (J)	0.028 (J)	
10/14/2020			0.11	0.039 (J)				
10/15/2020		0.57						0.093
1/4/2021		0.043 (J)						
3/2/2021					<0.01	0.046 (J)		
3/3/2021							<0.01	
3/4/2021	<0.01	0.017 (J)	0.096 (J)	0.035 (J)				0.094 (J)
7/1/2021						<0.01		
9/13/2021					0.01 (J)	0.047		
9/14/2021	<0.01	0.042 (J)	0.084	0.035 (J)			0.035 (J)	0.092
3/1/2022		0.028 (J)	0.074					0.088 (J)
3/2/2022				0.022 (J)				
3/3/2022	0.0017 (J)				<0.01	0.037 (J)	0.02 (J)	
9/20/2022			0.043					<0.01
9/21/2022	<0.01	0.018 (J)		0.02 (J)	0.0075 (J)	0.028	0.023 (J)	
2/28/2023					0.0104 (J)		0.0257 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
3/1/2023	<0.01							
3/2/2023		0.0237 (J)	0.0361 (J)	0.0217 (J)		0.0218 (J)		0.0919
9/12/2023		0.0301			0.0115	0.0222		
9/13/2023	<0.01			0.027			0.037	
9/14/2023			0.0551					0.087
3/19/2024					0.0104		0.0223	
3/20/2024	<0.01					0.0208		
3/21/2024		0.0329	0.0458	0.0135				0.08
9/10/2024	<0.01				0.00967 (J)		0.0211	
9/11/2024		0.029		0.0147		0.0204		0.0667
9/12/2024			0.055					
3/17/2025					0.00974 (J)	0.0373		
3/18/2025							0.023	0.0665
3/19/2025		0.0476	0.0636	0.0123				
3/20/2025	<0.01							
9/9/2025		0.0533	0.0616		0.0102	0.0348 (J)		
9/10/2025	<0.01							0.066
9/11/2025				0.0161			0.0213 (J)	
3/10/2026	<0.01	0.0541	0.056			0.0349	0.0188	0.0696
3/11/2026				0.0123	0.00893 (J)			
Mean	0.007196	0.05374	0.05203	0.03464	0.009997	0.03216	0.02103	0.07669
Std. Dev.	0.003953	0.1105	0.009514	0.03107	0.002307	0.01687	0.007933	0.02347
Upper Lim.	0.01	0.042	0.06211	0.03748	0.01123	0.04057	0.02518	0.09061
Lower Lim.	0.002	0.022	0.04194	0.01893	0.009165	0.02375	0.01688	0.06764

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-14	MCM-17
8/30/2016					<0.0002	
8/31/2016		<0.0002	<0.0002	<0.0002		
10/25/2016						<0.0002
11/30/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/15/2017					<0.0002	<0.0002
2/16/2017		<0.0002	<0.0002	<0.0002		
5/31/2017					<0.0002	<0.0002
6/1/2017	<0.0002					
6/2/2017		4.2E-05 (J)	<0.0002	<0.0002		
8/2/2017	<0.0002					
8/15/2017						<0.0002
8/16/2017					<0.0002	
8/17/2017	<0.0002	<0.0002	<0.0002	<0.0002		
4/4/2018	<0.0002					
5/8/2018	<0.0002					
6/19/2018					<0.0002	<0.0002
6/20/2018	<0.0002	<0.0002	<0.0002			
6/21/2018				<0.0002		
9/25/2018					<0.0002	
9/26/2018						<0.0002
9/27/2018	<0.0002	<0.0002	<0.0002	<0.0002		
11/6/2018	0.00071			0.00067	0.00066	0.00064
11/7/2018		<0.0002	<0.0002			
3/6/2019			<0.0002			
8/26/2019					<0.0002	
8/27/2019	<0.0002					<0.0002
8/28/2019		<0.0002	<0.0002	<0.0002		
10/15/2019	<0.0002				<0.0002	
10/16/2019		<0.0002				<0.0002
10/17/2019			<0.0002	<0.0002		
3/27/2020					<0.0002	<0.0002
3/28/2020	<0.0002	<0.0002	<0.0002	<0.0002		
9/13/2021					<0.0002	
9/14/2021	<0.0002	<0.0002	0.00016 (J)	<0.0002		<0.0002
3/1/2022		<0.0002	<0.0002			
3/2/2022				<0.0002		
3/3/2022	<0.0002				<0.0002	<0.0002
9/20/2022			<0.0002			
9/21/2022	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
2/28/2023						<0.0002
3/1/2023	<0.0002					
3/2/2023		<0.0002	<0.0002	<0.0002	<0.0002	
9/12/2023		<0.0002			<0.0002	
9/13/2023	<0.0002			<0.0002		<0.0002
9/14/2023			<0.0002			
3/19/2024						<0.0002
3/20/2024	<0.0002				<0.0002	
3/21/2024		<0.0002	<0.0002	<0.0002		
9/10/2024	<0.0002					<0.0002
9/11/2024		<0.0002		<0.0002	<0.0002	
9/12/2024			<0.0002			
3/17/2025					<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-14	MCM-17
3/18/2025						<0.0002
3/19/2025		<0.0002	<0.0002	<0.0002		
3/20/2025	<0.0002					
9/9/2025		<0.0002	<0.0002		<0.0002	
9/10/2025	<0.0002					
9/11/2025				<0.0002		<0.0002
3/10/2026	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
3/11/2026				<0.0002		
Mean	0.0002243	0.0001925	0.0001982	0.0002224	0.0002219	0.000221
Std. Dev.	0.0001113	3.448E-05	8.528E-06	0.0001026	0.0001004	9.602E-05
Upper Lim.	0.00071	0.0002	0.0002	0.00067	0.00066	0.00064
Lower Lim.	0.0002	4.2E-05	0.00016	0.0002	0.0002	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-17	DPZ-02
8/30/2016					<0.015		
8/31/2016		<0.02	<0.005	<0.005			
10/25/2016						<0.001	
11/30/2016		<0.02	<0.005	<0.005	<0.015	<0.001	
2/15/2017					<0.015	<0.001	
2/16/2017		<0.02	<0.005	<0.005			
5/31/2017					<0.015	<0.001	
6/1/2017	<0.001						
6/2/2017		<0.02	<0.005	<0.005			
8/2/2017	<0.001						
8/15/2017					<0.015	<0.001	
8/17/2017	<0.001	0.0012 (J)	0.0025 (J)	<0.005			
4/4/2018	<0.001						
5/8/2018	<0.001						
6/19/2018					<0.015	<0.001	
6/20/2018	<0.001	<0.02	<0.005				
6/21/2018				<0.005			
9/25/2018					<0.015		
9/26/2018						<0.001	
9/27/2018	<0.001	<0.02	<0.005	<0.005			
11/6/2018	<0.001			<0.005		<0.001	
11/7/2018		<0.02	0.0024 (J)		<0.015		
3/6/2019			<0.005				
8/27/2019	<0.001				<0.015	<0.001	
8/28/2019		<0.02	0.0017 (J)	<0.005			
10/15/2019	<0.001				<0.015		
10/16/2019		<0.02				<0.001	
10/17/2019			0.0017 (J)	<0.005			
3/27/2020					<0.015	<0.001	
3/28/2020	<0.001	<0.02	<0.005	<0.005			
9/13/2021					<0.015		
9/14/2021	<0.001	0.0099 (J)	<0.005	<0.005		<0.001	<0.005
3/1/2022		<0.02	<0.005				<0.005
3/2/2022				<0.005			
3/3/2022	0.00015 (J)				<0.015	<0.001	
9/20/2022			0.0013 (J)				<0.005
9/21/2022	<0.001	0.00095 (J)		0.00095 (J)	<0.015	<0.001	
2/28/2023					0.000362 (J)	0.000313 (J)	
3/1/2023	<0.001						
3/2/2023		0.000852 (J)	0.00131 (J)	0.000963 (J)			0.000245 (J)
9/12/2023		0.000809 (J)			0.000423 (J)		
9/13/2023	<0.001			0.000847 (J)		0.000217 (J)	
9/14/2023			0.000839 (J)				<0.005
3/19/2024					0.00055 (J)	0.00102 (J)	
3/20/2024	<0.001						
3/21/2024		0.000936 (J)	0.000983 (J)	0.00146 (J)			<0.005
9/10/2024	<0.001				0.000276 (J)	<0.001	
9/11/2024		0.00113		0.000949 (J)			0.000217 (J)
9/12/2024			0.000895 (J)				
3/17/2025					0.00044 (J)		
3/18/2025						0.00028 (J)	0.00031 (J)
3/19/2025		0.0018	0.000896 (J)	0.000592 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-17	DPZ-02
3/20/2025	<0.001						
9/9/2025		0.00212	0.000587 (J)		0.000438 (J)		
9/10/2025	0.000218 (J)						0.000393 (J)
9/11/2025				0.000526 (J)		0.000272 (J)	
3/10/2026	<0.001	0.00224 (J)	<0.005			0.000374 (J)	<0.005
3/11/2026				<0.005	0.000451 (J)		
Mean	0.0009223	0.01152	0.003187	0.003633	0.01014	0.0008322	0.003116
Std. Dev.	0.0002457	0.009299	0.001907	0.001988	0.007043	0.000311	0.002432
Upper Lim.	0.001	0.02	0.005	0.005	0.015	0.001	0.005
Lower Lim.	0.000218	0.00113	0.0013	0.00095	0.00044	0.000374	0.000245

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
8/30/2016					0.0011 (J)	<0.025		
8/31/2016		0.002 (J)	0.0015 (J)	0.0021 (J)				
10/25/2016							0.003 (J)	
11/30/2016		0.0023 (J)	0.0054 (J)	<0.025	0.0023 (J)	<0.025	0.0087 (J)	
2/15/2017					0.0021 (J)	0.0014 (J)	0.0067 (J)	
2/16/2017		0.002 (J)	0.0022 (J)	0.0025 (J)				
5/31/2017					<0.005	<0.025	0.0018 (J)	
6/1/2017	<0.005							
6/2/2017		<0.025	<0.025	<0.025				
8/2/2017	<0.005							
8/15/2017					0.0021 (J)		0.0025 (J)	
8/16/2017						0.0018 (J)		
8/17/2017	<0.005	<0.025	0.002 (J)	0.0033 (J)				
4/4/2018	<0.005							
5/8/2018	<0.005							
6/19/2018					0.0017 (J)	<0.025	<0.025	
6/20/2018	<0.005	<0.025	<0.025					
6/21/2018				<0.025				
9/25/2018					0.002 (J)	0.0019 (J)		
9/26/2018							0.0016 (J)	
9/27/2018	<0.005	<0.025	<0.025	0.0023 (J)				
11/6/2018	0.0025 (J)			0.0048 (J)		0.0057 (J)	<0.025	
11/7/2018		<0.025	0.0075 (J)		<0.005			
3/6/2019			0.0024 (J)					
8/26/2019						0.0025 (J)		
8/27/2019	<0.005				0.0019 (J)		0.0018 (J)	
8/28/2019		<0.025	0.0014 (J)	0.0019 (J)				
10/15/2019	<0.005				<0.005	0.003 (J)		
10/16/2019		<0.025					<0.025	
10/17/2019			0.0066 (J)	0.0049 (J)				
3/27/2020					<0.005	<0.025	<0.025	
3/28/2020	<0.005	<0.025	<0.025	<0.025				
10/12/2020					<0.005			
10/13/2020	<0.005					<0.025	<0.025	
10/14/2020			<0.025	<0.025				
10/15/2020		0.0028 (J)						<0.025
1/4/2021		<0.025						
3/2/2021					<0.005	<0.025		
3/3/2021							<0.025	
3/4/2021	0.00038 (J)	<0.025	<0.025	<0.025				<0.025
9/13/2021					<0.005	<0.025		
9/14/2021	<0.005	<0.025	<0.025	<0.025			<0.025	<0.025
3/1/2022		<0.025	<0.025					<0.025
3/2/2022				<0.025				
3/3/2022	0.00012 (J)				<0.005	<0.025	<0.025	
9/20/2022			<0.025					<0.025
9/21/2022	<0.005	<0.025		<0.025	<0.005	<0.025	<0.025	
2/28/2023					0.00157 (J)		0.00184 (J)	
3/1/2023	<0.005							
3/2/2023		<0.025	<0.025	0.00238 (J)		<0.025		0.00205 (J)
9/12/2023		<0.025			<0.005	<0.025		
9/13/2023	<0.005			<0.025			<0.025	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-04	MCM-05	MCM-06	MCM-07	MCM-12	MCM-14	MCM-17	DPZ-02
9/14/2023			<0.025					<0.025
3/19/2024					<0.005		<0.025	
3/20/2024	<0.005					<0.025		
3/21/2024		<0.025	<0.025	<0.025				<0.025
9/10/2024	<0.005				<0.005		<0.025	
9/11/2024		<0.025		<0.025		<0.025		0.00176 (J)
9/12/2024			<0.025					
3/17/2025					<0.005	<0.025		
3/18/2025							<0.025	<0.025
3/19/2025		<0.025	<0.025	0.00157 (J)				
3/20/2025	<0.005							
9/9/2025		<0.025	<0.025		<0.005	<0.025		
9/10/2025	<0.005							<0.025
9/11/2025				<0.025			<0.025	
3/10/2026	<0.005	<0.025	<0.025			<0.025	0.00194 (J)	<0.025
3/11/2026				0.00197 (J)	<0.005			
Mean	0.004478	0.02121	0.01788	0.01534	0.003903	0.01919	0.01652	0.02115
Std. Dev.	0.001433	0.008652	0.01038	0.01129	0.001551	0.01003	0.01093	0.00899
Upper Lim.	0.005	0.025	0.025	0.025	0.005	0.025	0.025	0.025
Lower Lim.	0.0025	0.0028	0.0054	0.00238	0.0021	0.0057	0.0025	0.00205

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 7/14/2026 3:52 PM View: Confidence Intervals

Plant McManus Client: Southern Company Data: McManus AP1

	MCM-06
8/31/2016	<0.002
11/30/2016	<0.002
2/16/2017	<0.002
6/2/2017	<0.002
8/17/2017	<0.002
6/20/2018	<0.002
9/27/2018	<0.002
11/7/2018	<0.002
3/6/2019	<0.002
8/28/2019	<0.002
10/17/2019	7.6E-05 (J)
3/28/2020	<0.002
9/14/2021	<0.002
3/1/2022	<0.002
9/20/2022	<0.002
3/2/2023	<0.002
9/14/2023	<0.002
3/21/2024	<0.002
9/12/2024	<0.002
3/19/2025	<0.002
9/9/2025	<0.002
3/10/2026	<0.002
Mean	0.001913
Std. Dev.	0.0004102
Upper Lim.	0.002
Lower Lim.	7.6E-05

ND substitution: RL or RL/2 if <15% NDs.

FIGURE J.

Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 4/23/2026, 12:19 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	**MCM-06**	**-0.06621**	**-60**	**-41**	**Yes**	**15**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**DPZ-02**	**-0.004569**	**-51**	**-37**	**Yes**	**14**	**7.143**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

Plant McManus Client: Southern Company Data: McManus AP1 Printed 4/23/2026, 12:19 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	MCM-01 (bg)	-0.000225	-20	-34	No	13	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-02 (bg)	0	11	34	No	13	84.62	n/a	0.05	NP
Arsenic (mg/L)	MCM-11 (bg)	0.001787	33	34	No	13	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-15 (bg)	0.0000142	0	34	No	13	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-16 (bg)	0	13	34	No	13	76.92	n/a	0.05	NP
Arsenic (mg/L)	MCM-18 (bg)	-0.0001281	-55	-58	No	19	10.53	n/a	0.05	NP
Arsenic (mg/L)	MCM-19 (bg)	0.0001025	8	58	No	19	0	n/a	0.05	NP
Arsenic (mg/L)	MCM-20 (bg)	-0.0003331	-11	-58	No	19	0	n/a	0.05	NP
Arsenic (mg/L)	**MCM-06**	**-0.06621**	**-60**	**-41**	**Yes**	**15**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	MCM-01 (bg)	0	4	34	No	13	92.31	n/a	0.05	NP
Lithium (mg/L)	MCM-02 (bg)	0	0	34	No	13	100	n/a	0.05	NP
Lithium (mg/L)	MCM-11 (bg)	0	0	34	No	13	69.23	n/a	0.05	NP
Lithium (mg/L)	MCM-15 (bg)	0	4	34	No	13	92.31	n/a	0.05	NP
Lithium (mg/L)	MCM-16 (bg)	0	4	34	No	13	92.31	n/a	0.05	NP
Lithium (mg/L)	MCM-18 (bg)	0	13	49	No	17	58.82	n/a	0.05	NP
Lithium (mg/L)	MCM-19 (bg)	-0.0001213	-12	-58	No	19	5.263	n/a	0.05	NP
Lithium (mg/L)	MCM-20 (bg)	-0.00003188	-8	-58	No	19	0	n/a	0.05	NP
Lithium (mg/L)	**DPZ-02**	**-0.004569**	**-51**	**-37**	**Yes**	**14**	**7.143**	**n/a**	**0.05**	**NP**

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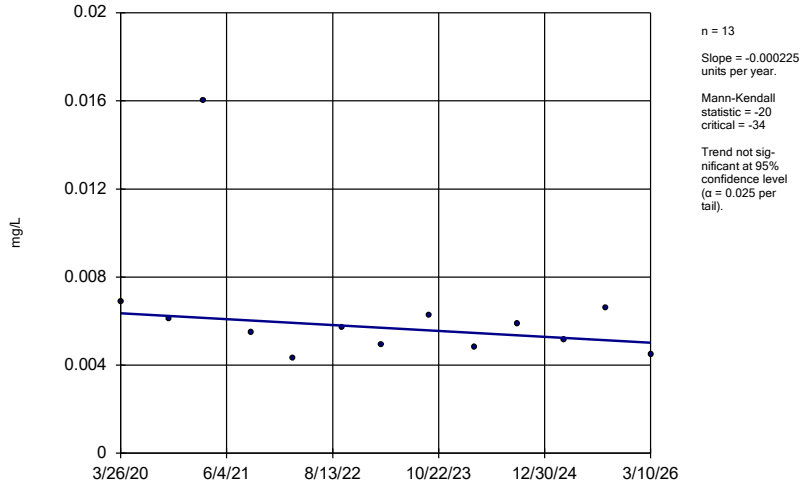
Sen's Slope Estimator

MCM-01 (bg)



n = 13

Slope = -0.000225 units per year.

Mann-Kendall statistic = -20 critical = -34

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 4/23/2026 12:17 PM View: Appendix IV - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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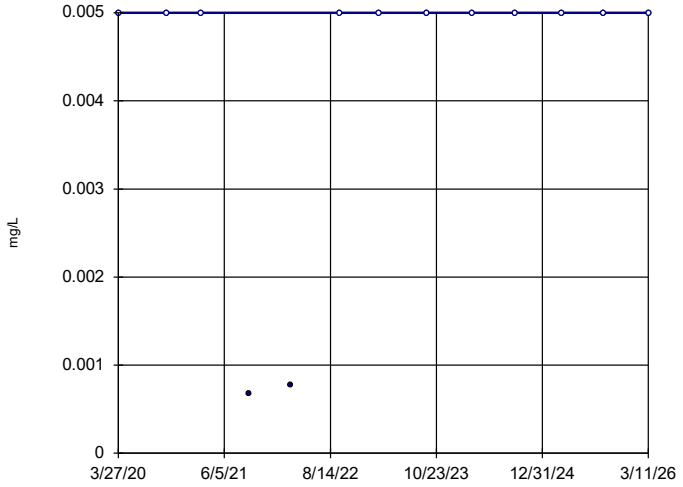
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-02 (bg)



n = 13

Slope = 0 units per year.

Mann-Kendall statistic = 11 critical = 34

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 4/23/2026 12:17 PM View: Appendix IV - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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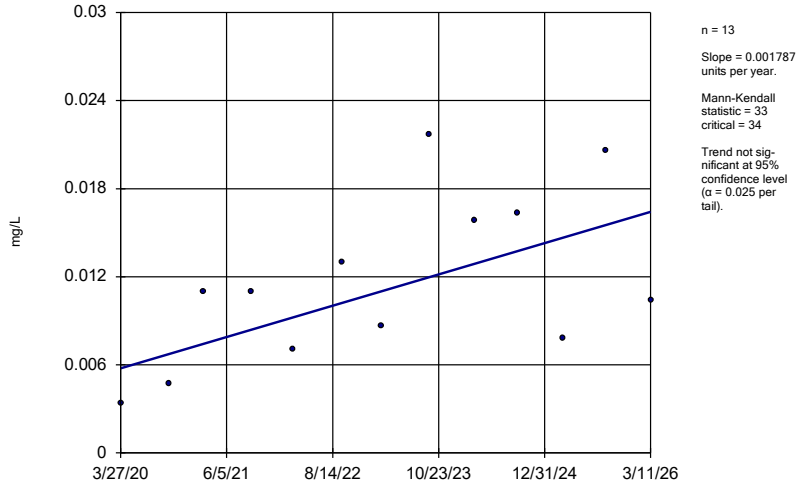
Sen's Slope Estimator

MCM-11 (bg)



n = 13

Slope = 0.001787 units per year.

Mann-Kendall statistic = 33 critical = 34

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 4/23/2026 12:17 PM View: Appendix IV - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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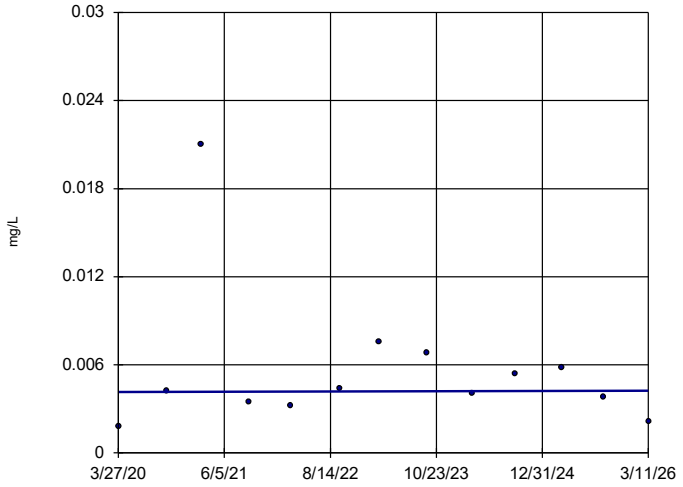
Sen's Slope Estimator

MCM-15 (bg)



n = 13

Slope = 0.0000142 units per year.

Mann-Kendall statistic = 0 critical = 34

Trend not significant at 95% confidence level (α = 0.025 per tail).

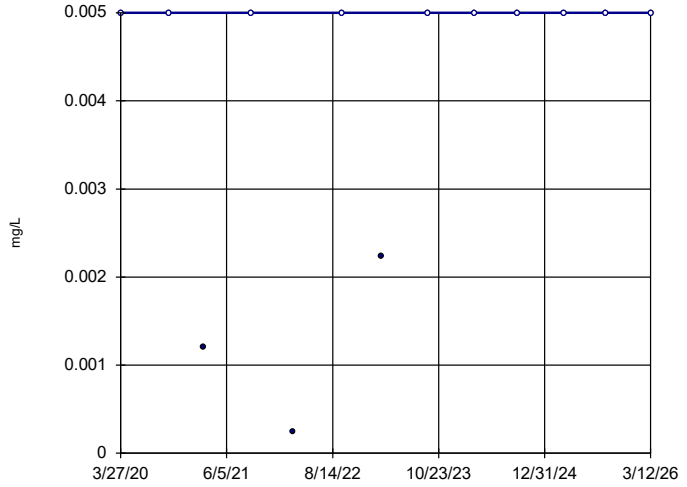
Constituent: Arsenic Analysis Run 4/23/2026 12:17 PM View: Appendix IV - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-16 (bg)



n = 13

Slope = 0 units per year.

Mann-Kendall statistic = 13 critical = 34

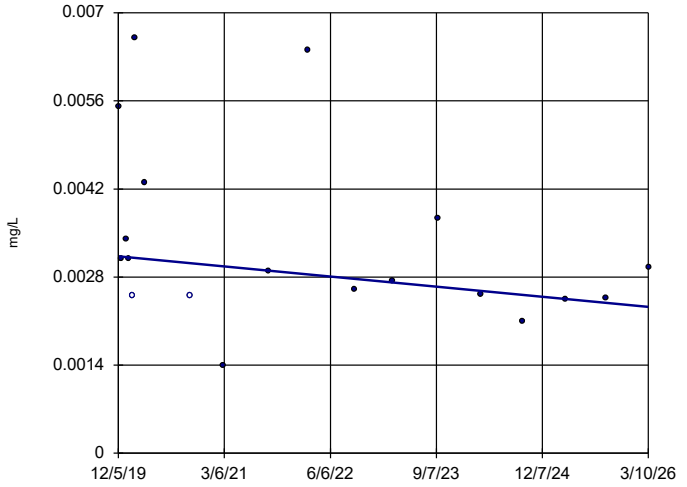
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 4/23/2026 12:17 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-18 (bg)



n = 19

Slope = -0.0001281 units per year.

Mann-Kendall statistic = -55 critical = -58

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 4/23/2026 12:17 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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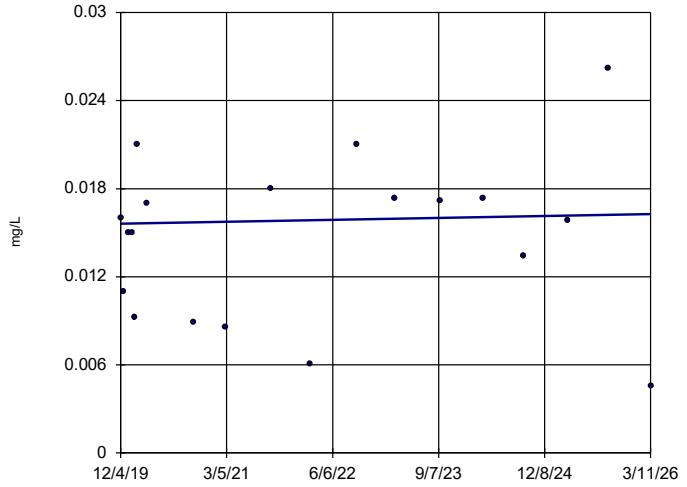
Sen's Slope Estimator

MCM-19 (bg)



n = 19

Slope = 0.0001025 units per year.

Mann-Kendall statistic = 8 critical = 58

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 4/23/2026 12:17 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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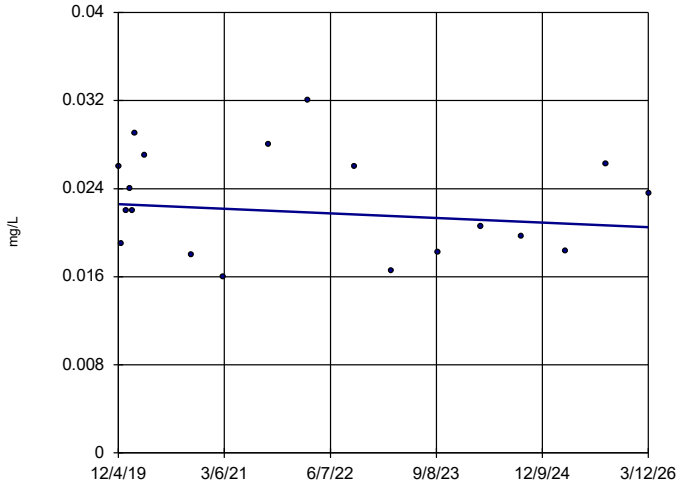
Sen's Slope Estimator

MCM-20 (bg)



n = 19

Slope = -0.0003331 units per year.

Mann-Kendall statistic = -11 critical = -58

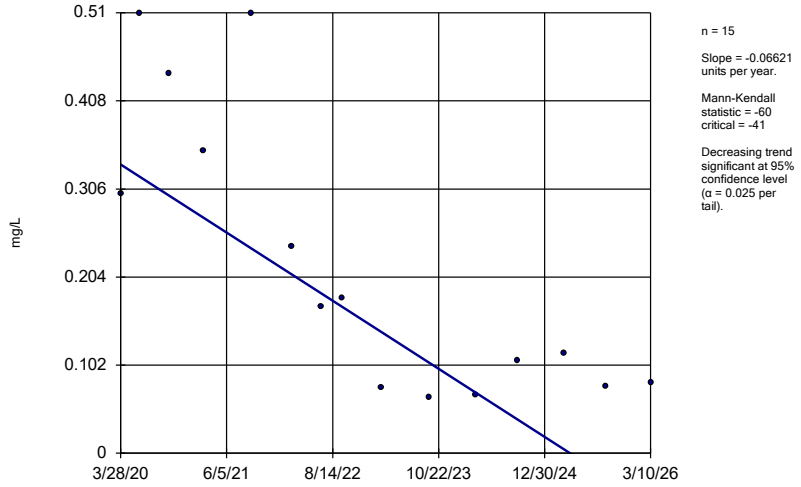
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 4/23/2026 12:17 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06d Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MCM-06



n = 15

Slope = -0.06621 units per year.

Mann-Kendall statistic = -60 critical = -41

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 4/23/2026 12:17 PM View: Appendix IV - Trend Tests

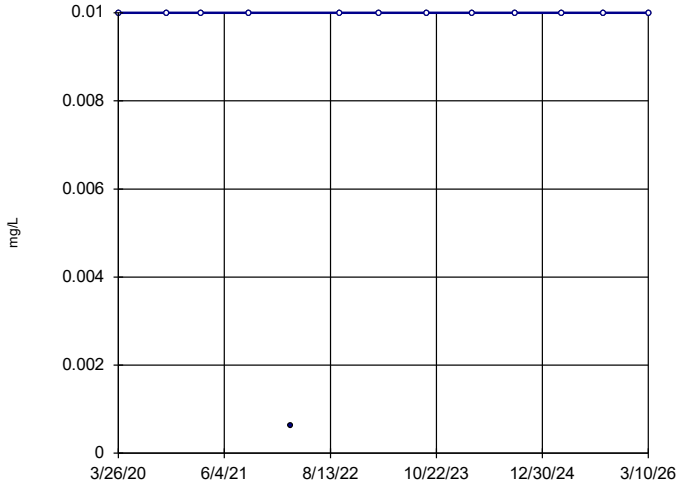
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06d Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-01 (bg)



n = 13

Slope = 0 units per year.

Mann-Kendall statistic = 4 critical = 34

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/23/2026 12:17 PM View: Appendix IV - Trend Tests

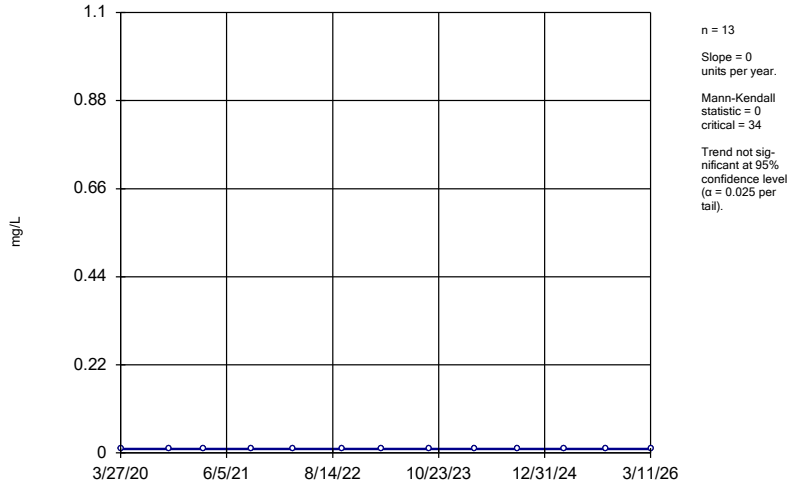
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06d Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-02 (bg)



n = 13

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 34

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/23/2026 12:17 PM View: Appendix IV - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

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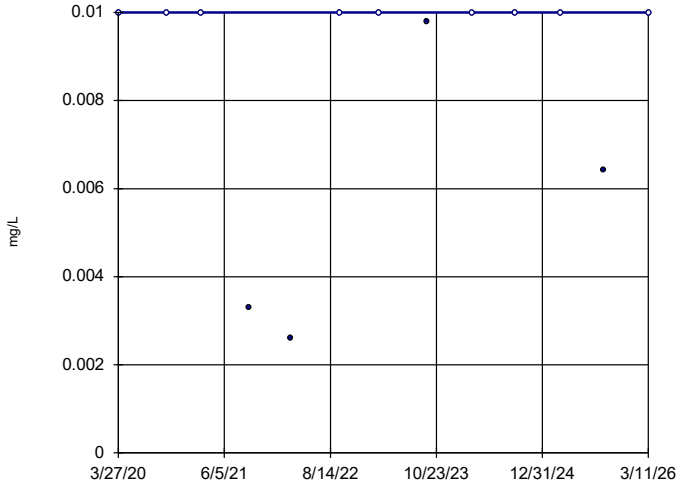
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-11 (bg)



n = 13

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 34

Trend not significant at 95% confidence level (α = 0.025 per tail).

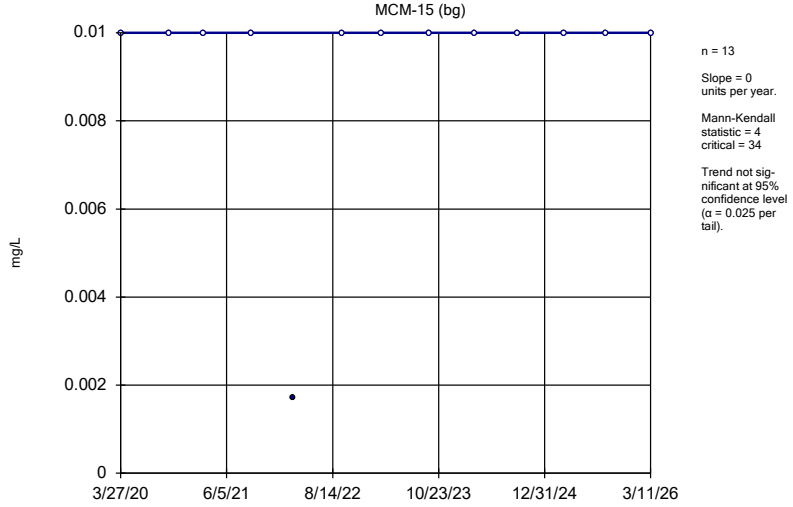
Constituent: Lithium Analysis Run 4/23/2026 12:17 PM View: Appendix IV - Trend Tests

Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-15 (bg)



n = 13

Slope = 0
units per year.

Mann-Kendall
statistic = 4
critical = 34

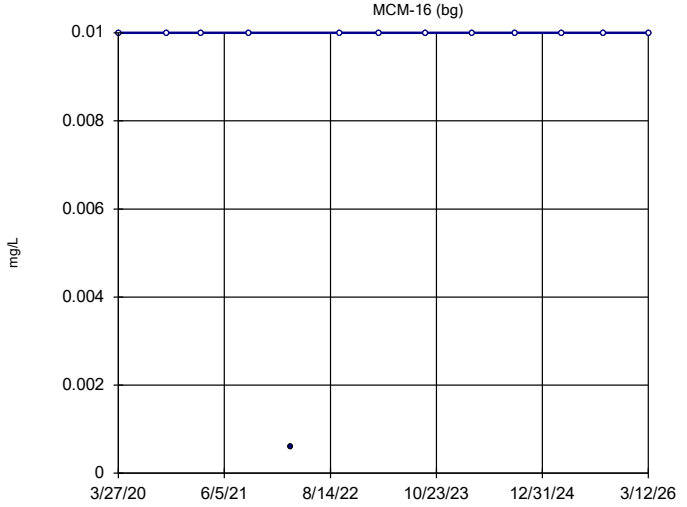
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lithium Analysis Run 4/23/2026 12:17 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-16 (bg)



n = 13

Slope = 0
units per year.

Mann-Kendall
statistic = 4
critical = 34

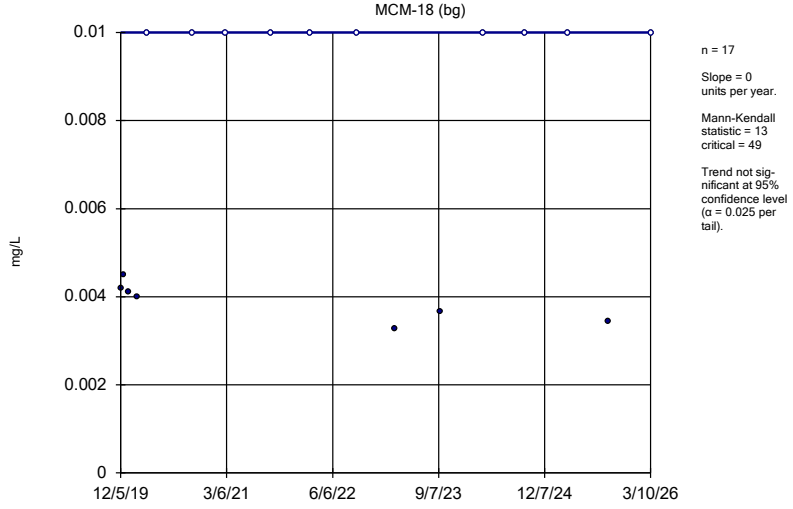
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lithium Analysis Run 4/23/2026 12:17 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-18 (bg)



n = 17

Slope = 0
units per year.

Mann-Kendall
statistic = 13
critical = 49

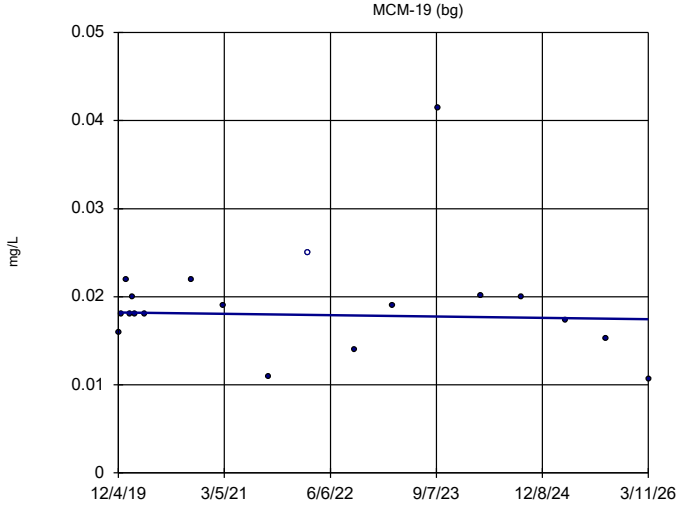
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lithium Analysis Run 4/23/2026 12:17 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06d Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MCM-19 (bg)



n = 19

Slope = -0.0001213
units per year.

Mann-Kendall
statistic = -12
critical = -58

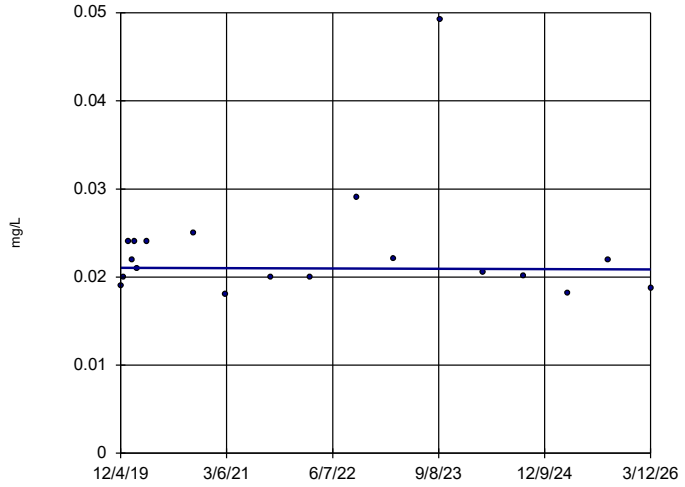
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lithium Analysis Run 4/23/2026 12:17 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

Sanitas™ v.10.1.06d Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

MCM-20 (bg)



n = 19

Slope = -0.00003188 units per year.

Mann-Kendall statistic = -8
critical = -58

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/23/2026 12:17 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

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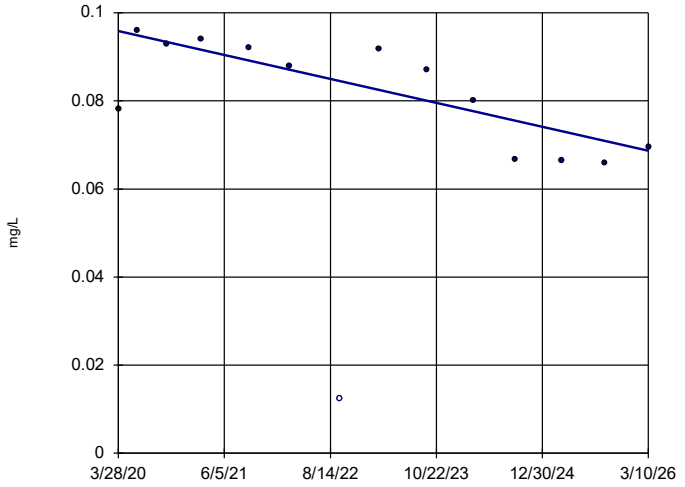
Hollow symbols indicate censored values.

Sen's Slope Estimator

DPZ-02



n = 14

Slope = -0.004569 units per year.

Mann-Kendall statistic = -51
critical = -37

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/23/2026 12:17 PM View: Appendix IV - Trend Tests
Plant McManus Client: Southern Company Data: McManus AP1

APPENDIX F

ANNUAL POTABLE WELL SURVEY

ENSAFE
creative thinking. custom solutions.

Mcmanus
Crispin Blvd
Brunswick, GA 31523

Inquiry Number: 8202431.1s
December 16, 2025

The EDR GeoCheck® Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION **PAGE**

GEOCHECK ADDENDUM

Physical Setting Source Addendum **A-1**

Physical Setting Source Summary **A-2**

Physical Setting SSURGO Soil Map **A-5**

Physical Setting Source Map **A-10**

Physical Setting Source Map Findings **A-11**

Physical Setting Source Records Searched **PSGR-1**

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GEOCHECK® - PHYSICAL SETTING SOURCE REPORT

TARGET PROPERTY ADDRESS

MCMANUS
CRISPIN BLVD
BRUNSWICK, GA 31523

TARGET PROPERTY COORDINATES

Latitude (North):	31.215321 - 31° 12' 55.16''
Longitude (West):	81.545956 - 81° 32' 45.44''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	447995.8
UTM Y (Meters):	3453409.0
Elevation:	4 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	31081-B5 BRUNSWICK WEST, GA
Version Date:	1993

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).

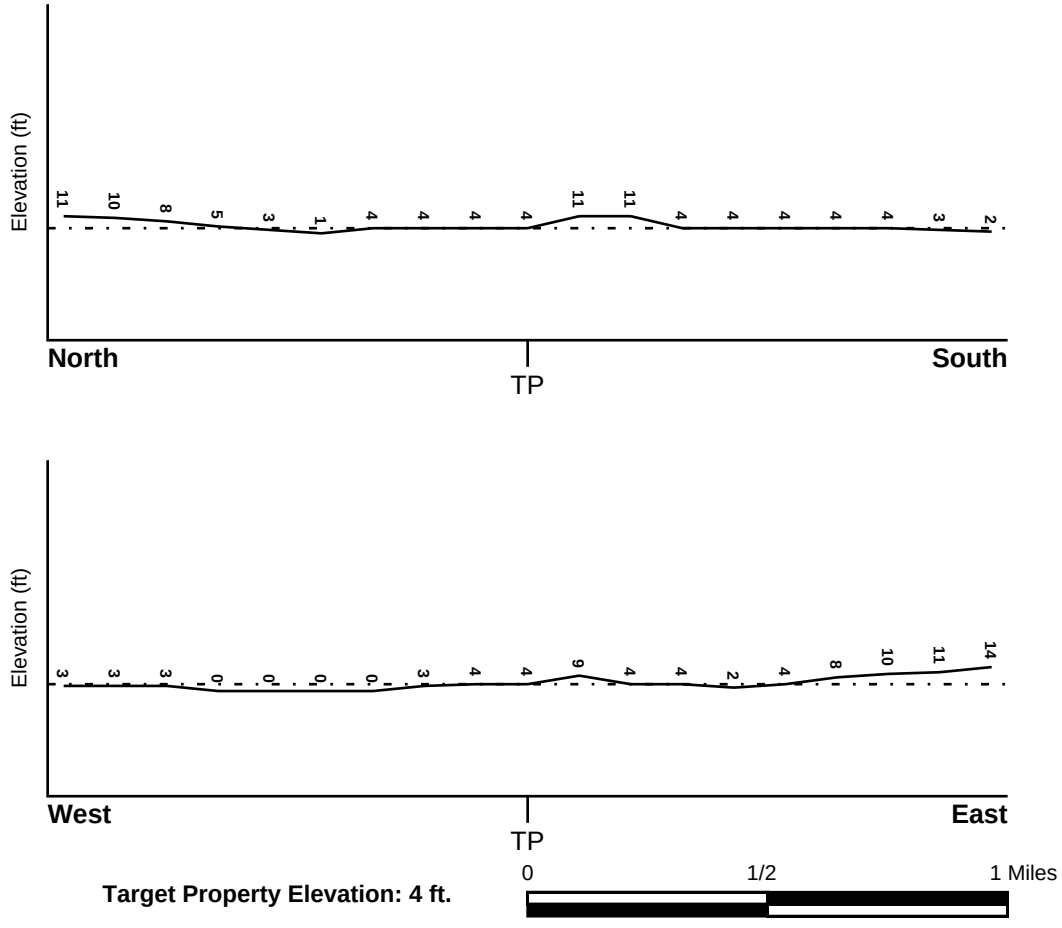
TOPOGRAPHIC INFORMATION

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 NNW

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
13127C0208F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
13127C0205F	FEMA FIRM Flood data
13127C0206F	FEMA FIRM Flood data
13039C0075F	FEMA FIRM Flood data
13127C0209F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
BRUNSWICK WEST	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:	Holocene
Code:	Qh *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 8202431.1s

Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Mcmanus	CLIENT:	ARCADIS U.S., Inc.
ADDRESS:	Crispin Blvd Brunswick GA 31523	CONTACT:	Clair Lueke
LAT/LONG:	31.215321 / 81.545956	INQUIRY #:	8202431.1s
		DATE:	December 16, 2025 2:35 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

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 drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 77 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 3.6
2	18 inches	33 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 3.6
3	33 inches	61 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 3.6
4	61 inches	79 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 3.6

Soil Map ID: 2

Soil Component Name: Water

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:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: Bohicket

Soil Surface Texture: stratified silty clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	stratified silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 6.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	7 inches	64 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 6.1

Soil Map ID: 4

Soil Component Name: Sapelo

Soil Surface Texture: fine sand

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 31 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 1.4	Max: 5.5 Min: 3.6
2	16 inches	25 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 1.4	Max: 5.5 Min: 3.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	25 inches	48 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 1.4	Max: 5.5 Min: 3.6
4	48 inches	83 inches	sandy clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 1.4	Max: 5.5 Min: 3.6

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	1.000
Federal FRDS PWS	1.000
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A4	USGS40000255109	0 - 1/8 Mile SSW
B6	USGS40000255126	1/2 - 1 Mile East
C8	USGS40000255200	1/2 - 1 Mile NNE
C10	USGS40000255199	1/2 - 1 Mile NNE
D12	USGS40000255150	1/2 - 1 Mile ENE
E15	USGS40000255133	1/2 - 1 Mile East
F17	USGS40000255192	1/2 - 1 Mile NE
G19	USGS40000255185	1/2 - 1 Mile NE
H22	USGS40000255223	1/2 - 1 Mile North

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
I24	USGS40000255124	1/2 - 1 Mile East
G25	USGS40000255189	1/2 - 1 Mile NE
J28	USGS40000255142	1/2 - 1 Mile ENE
J31	USGS40000255151	1/2 - 1 Mile ENE
G32	USGS40000255198	1/2 - 1 Mile NE
K34	USGS40000255221	1/2 - 1 Mile NNE
L37	USGS40000255235	1/2 - 1 Mile North

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

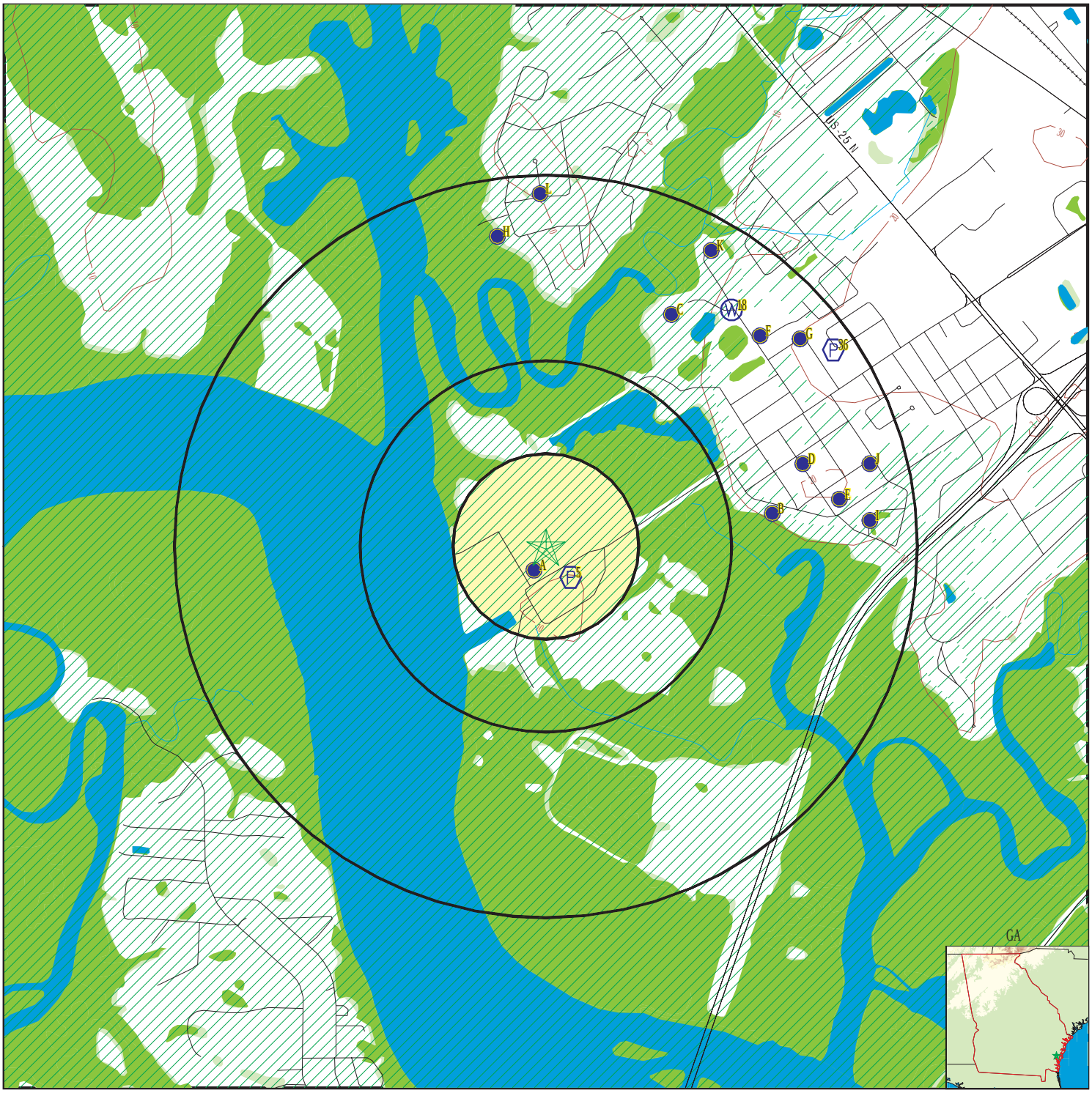
MAP ID	WELL ID	LOCATION FROM TP
5	GA1270027	0 - 1/8 Mile SE
36	GA1270058	1/2 - 1 Mile NE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	0000005276	0 - 1/8 Mile SSW
A2	0000005277	0 - 1/8 Mile SSW
A3	0000005278	0 - 1/8 Mile SSW
B7	0000005287	1/2 - 1 Mile East
C9	0000005325	1/2 - 1 Mile NNE
C11	0000005324	1/2 - 1 Mile NNE
D13	0000005297	1/2 - 1 Mile ENE
E14	0000005289	1/2 - 1 Mile East
F16	0000005320	1/2 - 1 Mile NE
18	GAPR01000000052	1/2 - 1 Mile NE
G20	0000005317	1/2 - 1 Mile NE
H21	0000005339	1/2 - 1 Mile North
I23	0000005286	1/2 - 1 Mile East
G26	0000005318	1/2 - 1 Mile NE
G27	0000005319	1/2 - 1 Mile NE
J29	0000005292	1/2 - 1 Mile ENE
J30	0000005298	1/2 - 1 Mile ENE
G33	0000005323	1/2 - 1 Mile NE
K35	0000005338	1/2 - 1 Mile NNE
L38	0000005350	1/2 - 1 Mile North

PHYSICAL SETTING SOURCE MAP - 8202431.1s



County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 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

SITE NAME:	Mcmanus	CLIENT:	ARCADIS U.S., Inc.
ADDRESS:	Crispin Blvd Brunswick GA 31523	CONTACT:	Clair Lueke
LAT/LONG:	31.215321 / 81.545956	INQUIRY #:	8202431.1s
		DATE:	December 16, 2025 2:35 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
SSW
0 - 1/8 Mile
Higher

GA WELLS **0000005276**

County code:	127	Well num:	33H051
Remarks:	MCMANUS GA POWER	Lat:	311251
Lon:	0813248	Latlon datum:	NAD27
Alt:	10.00	Alt datum:	NGVD29
Depth:	983	Depth to casing:	117.00
Casing dia:	12.00	Casing matl:	S
Depth to top:	600.00	Depth to bot:	983.00
Opening type:	X	Constr date:	19510312
Discharge:	Not Reported	Prim use:	N
Aquifer code:	120FLRDU	Edr id:	0000005276

A2
SSW
0 - 1/8 Mile
Higher

GA WELLS **0000005277**

County code:	127	Well num:	33H051
Remarks:	MCMANUS GA POWER	Lat:	311251
Lon:	0813248	Latlon datum:	NAD27
Alt:	10.00	Alt datum:	NGVD29
Depth:	983	Depth to casing:	464.00
Casing dia:	8.00	Casing matl:	S
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	Not Reported
Discharge:	Not Reported	Prim use:	N
Aquifer code:	120FLRDU	Edr id:	0000005277

A3
SSW
0 - 1/8 Mile
Higher

GA WELLS **0000005278**

County code:	127	Well num:	33H051
Remarks:	MCMANUS GA POWER	Lat:	311251
Lon:	0813248	Latlon datum:	NAD27
Alt:	10.00	Alt datum:	NGVD29
Depth:	983	Depth to casing:	600.00
Casing dia:	6.00	Casing matl:	S
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	Not Reported
Discharge:	Not Reported	Prim use:	N
Aquifer code:	120FLRDU	Edr id:	0000005278

A4
SSW
0 - 1/8 Mile
Higher

FED USGS **USGS40000255109**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H051	Type:	Well
Description:	MCMANUS GA POWER	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Floridan aquifer system	Formation Type:	Upper Floridan Aquifer
Aquifer Type:	Not Reported	Construction Date:	19510312
Well Depth:	983	Well Depth Units:	ft
Well Hole Depth:	990	Well Hole Depth Units:	ft

5
SE
0 - 1/8 Mile
Higher

FRDS PWS GA1270027

Epa region:	04	State:	GA
Pwsid:	GA1270027	Pwsname:	GEORGIA POWER-PLANT MCMANUS
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13127
Status:	Active	Retpopsrvd:	40
Pwssvcconn:	16	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:	GA1270027	Facid:	1067
Facname:	WELL #1 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

PWS ID:	GA1270027	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-PLANT MCMANUS
PWS type code:	NTNC	Retail population served:	40
Contact:	HOWELL, DANNY	Contact address:	ONE CRISPEN ISLAND
Contact address:	BRUNSWICK	Contact city:	GA
Contact state:	31	Contact zip:	912-261-32
Contact telephone:	Not Reported		

PWS ID:	GA1270027	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000046	System name:	GEORGIA POWER-PLANT MCMANUS
System address:	GEORGIA POWER PLANT MCMANUS		
System address:	ONE CRISPEN ISLAND	System city:	BRUNSWICK
System state:	GA	System zip:	31520

Population served:	Under 101 Persons	Treatment:	Treated

Latitude:	311250	Longitude:	0813242

Violation id:	10204	Orig code:	S
State:	GA	Violation Year:	1994
Contamination code:	5000	Contamination Name:	Lead and Copper Rule
Violation code:	51	Violation name:	Initial Tap Sampling for Pb and Cu
Rule code:	350	Rule name:	LCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	01/01/1994
Cmp edt:	Not Reported		

Violation id:	10307	Orig code:	S

State:	GA	Violation Year:	2006
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2006
Cmp edt:	09/30/2006		

Violation ID:	10204	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	12/08/2000
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	10204	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	12/08/2000
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving

Violation ID:	10307	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	10/18/2006
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		

Violation ID:	10307	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	11/28/2006
Enforcement Detail:	St Public Notif received	Enforcement Category:	Informal

Violation ID:	10307	Orig Code:	S
Enforcemnt FY:	2007	Enforcement Action:	10/18/2006
Enforcement Detail:	St Public Notif requested	Enforcement Category:	Informal

PWS name:	GEORGIA POWER-PLANT MCMANUS		
Population served:	40	PWS type code:	NTNC
Violation ID:	10204	Contaminant:	Lead & Copper Rule
Violation type:	Initial Tap Sampling for Pb and Cu		
Compliance start date:	1/1/1994 0:00:00	Compliance end date:	12/8/2000 0:00:00
Enforcement date:	12/8/2000 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

PWS name:	GEORGIA POWER-PLANT MCMANUS		
Population served:	40	PWS type code:	NTNC
Violation ID:	10204	Contaminant:	Lead & Copper Rule
Violation type:	Initial Tap Sampling for Pb and Cu		
Compliance start date:	1/1/1994 0:00:00	Compliance end date:	12/8/2000 0:00:00
Enforcement date:	2/3/1999 0:00:00	Enforcement action:	State Intentional no-action
Violation measurement:	Not Reported		

PWS name:	GEORGIA POWER-PLANT MCMANUS		
Population served:	40	PWS type code:	NTNC
Violation ID:	10307	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	7/1/2006 0:00:00	Compliance end date:	9/30/2006 0:00:00
Enforcement date:	10/18/2006 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		

PWS name:	GEORGIA POWER-PLANT MCMANUS		
Population served:	40	PWS type code:	NTNC
Violation ID:	10307	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	7/1/2006 0:00:00	Compliance end date:	9/30/2006 0:00:00
Enforcement date:	10/18/2006 0:00:00	Enforcement action:	State Public Notif Requested
Violation measurement:	Not Reported		

PWS name: GEORGIA POWER-PLANT MCMANUS

Population served:	40	PWS type code:	NTNC
Violation ID:	10307	Contaminant:	Coliform (Tcr)
Violation type:	Monitoring, Routine Major (TCR)		
Compliance start date:	7/1/2006 0:00:00	Compliance end date:	9/30/2006 0:00:00
Enforcement date:	11/28/2006 0:00:00	Enforcement action:	State Public Notif Received
Violation measurement:	Not Reported		

B6
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000255126**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H233	Type:	Well
Description:	RANDY MCDONALD	HUC:	03070203
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:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19910122
Well Depth:	200	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1991-05-15
Feet below surface:	5.70	Feet to sea level:	Not Reported
Note:	Not Reported		

B7
East
1/2 - 1 Mile
Higher

GA WELLS **0000005287**

County code:	127	Well num:	33H233
Remarks:	RANDY MCDONALD	Lat:	311259
Lon:	0813209	Latlon datum:	NAD27
Alt:	10	Alt datum:	NGVD29
Depth:	200	Depth to casing:	152
Casing dia:	4	Casing matl:	P
Depth to top:	152	Depth to bot:	200
Opening type:	X	Constr date:	19910122
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005287

C8
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255200**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H199	Type:	Well
Description:	SAPP, WOODROW SR.	HUC:	Not Reported
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Miocene Series
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

Ground water levels,Number of Measurements:	9	Level reading date:	1983-11-09
Feet below surface:	2.05	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1983-03-18	Feet below surface:	1.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-02-24	Feet below surface:	1.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-01-25	Feet below surface:	3.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-16	Feet below surface:	3.13
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-08-19	Feet below surface:	3.29
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-07-19	Feet below surface:	3.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-06-22	Feet below surface:	3.73
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-05-21	Feet below surface:	4.33
Feet to sea level:	Not Reported	Note:	Not Reported

C9
NNE
1/2 - 1 Mile
Higher

GA WELLS **0000005325**

County code:	127	Well num:	33H199
Remarks:	SAPP, WOODROW SR.	Lat:	311327
Lon:	0813226	Latlon datum:	NAD27
Alt:	10.00	Alt datum:	NGVD29
Depth:	Not Reported	Depth to casing:	Not Reported
Casing dia:	Not Reported	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	Not Reported
Discharge:	Not Reported	Prim use:	Not Reported
Aquifer code:	122MOCN	Edr id:	0000005325

C10
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255199**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H242	Type:	Well
Description:	BOBBY SAPP	HUC:	03070203
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:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19881103
Well Depth:	200	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1991-04-29
Feet below surface:	4.92	Feet to sea level:	Not Reported
Note:	Not Reported		

C11
NNE **GA WELLS** **0000005324**
1/2 - 1 Mile
Higher

County code:	127	Well num:	33H242
Remarks:	BOBBY SAPP	Lat:	311327
Lon:	0813225	Latlon datum:	NAD27
Alt:	10	Alt datum:	NGVD29
Depth:	200	Depth to casing:	158
Casing dia:	4	Casing matl:	S
Depth to top:	158	Depth to bot:	200
Opening type:	X	Constr date:	19881103
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005324

D12
ENE **FED USGS** **USGS40000255150**
1/2 - 1 Mile
Higher

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H279	Type:	Well
Description:	JOYCE GOOGE	HUC:	03070203
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:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19890909
Well Depth:	200	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1991-04-17
Feet below surface:	12.90	Feet to sea level:	Not Reported
Note:	Not Reported		

D13
ENE **GA WELLS** **0000005297**
1/2 - 1 Mile
Higher

County code:	127	Well num:	33H279
Remarks:	JOYCE GOOGE	Lat:	311306
Lon:	0813204	Latlon datum:	NAD27
Alt:	17.0	Alt datum:	NGVD29
Depth:	200	Depth to casing:	166
Casing dia:	4.0	Casing matl:	G
Depth to top:	166	Depth to bot:	200
Opening type:	X	Constr date:	19890909
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005297

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E14
East
1/2 - 1 Mile
Higher

GA WELLS **0000005289**

County code:	127	Well num:	33H253
Remarks:	RANDALL HOWELL	Lat:	311301
Lon:	0813158	Latlon datum:	NAD27
Alt:	20.0	Alt datum:	NGVD29
Depth:	180	Depth to casing:	151
Casing dia:	4.5	Casing matl:	P
Depth to top:	151	Depth to bot:	180
Opening type:	X	Constr date:	19900726
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005289

E15
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000255133**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H253	Type:	Well
Description:	RANDALL HOWELL	HUC:	03070203
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:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19900726
Well Depth:	180	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1991-04-11
Feet below surface:	15.37	Feet to sea level:	Not Reported
Note:	Not Reported		

F16
NE
1/2 - 1 Mile
Higher

GA WELLS **0000005320**

County code:	127	Well num:	33H281
Remarks:	STAN BOATRIGHT	Lat:	311324
Lon:	0813211	Latlon datum:	NAD27
Alt:	20	Alt datum:	NGVD29
Depth:	200	Depth to casing:	156
Casing dia:	4	Casing matl:	S
Depth to top:	156	Depth to bot:	200
Opening type:	X	Constr date:	19890805
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005320

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F17
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255192**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H281	Type:	Well
Description:	STAN BOATRIGHT	HUC:	03070203
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:	19890805
Well Depth:	200	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1989-08-05
Feet below surface:	11	Feet to sea level:	Not Reported
Note:	Not Reported		

18
NE
1/2 - 1 Mile
Higher

GA WELLS **GAPR01000000052**

Report ID:	1	Well Type:	Drilled Well
Well Age (yrs):	2	Well Depth (ft):	0
Coliform Test:	Satisfactory	Date Taken:	19-MAY-22
Results Date:	20-MAY-22	Coliform Present:	No
Fecal Present:	No		

G19
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255185**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H315	Type:	Well
Description:	A. R. SADTLER	HUC:	03070203
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:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19900711
Well Depth:	200	Well Depth Units:	ft
Well Hole Depth:	200	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1991-04-11
Feet below surface:	13.69	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G20
NE
1/2 - 1 Mile
Higher

GA WELLS **0000005317**

County code:	127	Well num:	33H315
Remarks:	A. R. SADTLER	Lat:	311322
Lon:	0813206	Latlon datum:	NAD27
Alt:	20.0	Alt datum:	NGVD29
Depth:	200	Depth to casing:	157
Casing dia:	4.5	Casing matl:	P
Depth to top:	157	Depth to bot:	200
Opening type:	X	Constr date:	19900711
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005317

H21
North
1/2 - 1 Mile
Higher

GA WELLS **0000005339**

County code:	127	Well num:	33H294
Remarks:	MICHAEL DOWDY	Lat:	311338
Lon:	0813254	Latlon datum:	NAD27
Alt:	5	Alt datum:	NGVD29
Depth:	160	Depth to casing:	120
Casing dia:	4.5	Casing matl:	P
Depth to top:	120	Depth to bot:	160
Opening type:	X	Constr date:	19900509
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005339

H22
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000255223**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H294	Type:	Well
Description:	MICHAEL DOWDY	HUC:	03070203
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:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19900509
Well Depth:	160	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1991-04-09
Feet below surface:	-.46	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I23
East
1/2 - 1 Mile
Higher

GA WELLS **0000005286**

County code:	127	Well num:	33H280
Remarks:	BOB BOWERS	Lat:	311258
Lon:	0813153	Latlon datum:	NAD27
Alt:	17.5	Alt datum:	NGVD29
Depth:	200	Depth to casing:	153
Casing dia:	4	Casing matl:	S
Depth to top:	153	Depth to bot:	200
Opening type:	X	Constr date:	19890504
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005286

I24
East
1/2 - 1 Mile
Higher

FED USGS **USGS40000255124**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H280	Type:	Well
Description:	BOB BOWERS	HUC:	03070203
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:	19890504
Well Depth:	200	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1989-05-04
Feet below surface:	10	Feet to sea level:	Not Reported
Note:	Not Reported		

G25
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255189**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H132	Type:	Well
Description:	OAK BLUFF SUBDIVISON	HUC:	03070203
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Floridan aquifer system	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19631001
Well Depth:	736	Well Depth Units:	ft
Well Hole Depth:	736	Well Hole Depth Units:	ft

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G26
NE
1/2 - 1 Mile
Higher

GA WELLS **0000005318**

County code:	127	Well num:	33H132
Remarks:	OAK BLUFF SUBDIVISON	Lat:	311323
Lon:	0813203	Latlon datum:	NAD27
Alt:	20.96	Alt datum:	NGVD29
Depth:	736	Depth to casing:	100.00
Casing dia:	4.00	Casing matl:	Not Reported
Depth to top:	499.00	Depth to bot:	736.00
Opening type:	X	Constr date:	19631001
Discharge:	Not Reported	Prim use:	P
Aquifer code:	Not Reported	Edr id:	0000005318

G27
NE
1/2 - 1 Mile
Higher

GA WELLS **0000005319**

County code:	127	Well num:	33H132
Remarks:	OAK BLUFF SUBDIVISON	Lat:	311323
Lon:	0813203	Latlon datum:	NAD27
Alt:	20.96	Alt datum:	NGVD29
Depth:	736	Depth to casing:	499.00
Casing dia:	3.00	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	Not Reported
Discharge:	Not Reported	Prim use:	P
Aquifer code:	Not Reported	Edr id:	0000005319

J28
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255142**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H197	Type:	Well
Description:	JOE NELSON (SHALLOW)	HUC:	03070203
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:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	1975
Well Depth:	260	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	9	Level reading date:	1983-11-09
Feet below surface:	9.65	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1983-03-18	Feet below surface:	8.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-02-24	Feet below surface:	8.25
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1983-01-25	Feet below surface:	9.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-16	Feet below surface:	9.55
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-08-19	Feet below surface:	10.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-07-19	Feet below surface:	10.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-06-22	Feet below surface:	11.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-05-24	Feet below surface:	11.45
Feet to sea level:	Not Reported	Note:	Not Reported

J29
ENE
1/2 - 1 Mile
Higher

GA WELLS **0000005292**

County code:	127	Well num:	33H197
Remarks:	JOE NELSON (SHALLOW)	Lat:	311305
Lon:	0813153	Latlon datum:	NAD27
Alt:	20	Alt datum:	NGVD29
Depth:	260	Depth to casing:	240
Casing dia:	2	Casing matl:	Not Reported
Depth to top:	240	Depth to bot:	260
Opening type:	X	Constr date:	1975
Discharge:	Not Reported	Prim use:	H
Aquifer code:	122MOCN	Edr id:	0000005292

J30
ENE
1/2 - 1 Mile
Higher

GA WELLS **0000005298**

County code:	127	Well num:	33H254
Remarks:	TERRY RAPE	Lat:	311307
Lon:	0813153	Latlon datum:	NAD27
Alt:	20.0	Alt datum:	NGVD29
Depth:	220	Depth to casing:	156
Casing dia:	4.5	Casing matl:	P
Depth to top:	156	Depth to bot:	220
Opening type:	X	Constr date:	19900720
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005298

J31
ENE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255151**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H254	Type:	Well
Description:	TERRY RAPE	HUC:	03070203
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:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19900720
Well Depth:	220	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1990-07-20
Feet below surface:	18	Feet to sea level:	Not Reported
Note:	Not Reported		

G32
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255198**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H198	Type:	Well
Description:	H. O. NAIL	HUC:	03070203
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:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19820401
Well Depth:	180	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	14	Level reading date:	1990-05-19
Feet below surface:	17.10	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1988-05-23	Feet below surface:	15.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-10-14	Feet below surface:	13.67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-05-13	Feet below surface:	13.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-11-09	Feet below surface:	12.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-03-17	Feet below surface:	10.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-02-24	Feet below surface:	10.85
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-01-25	Feet below surface:	12.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-11-16	Feet below surface:	12.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-08-19	Feet below surface:	12.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-07-19	Feet below surface:	12.63
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1982-06-22	Feet below surface:	13.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-05-19	Feet below surface:	14.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-05-18	Feet below surface:	13
Feet to sea level:	Not Reported	Note:	Not Reported

G33
NE
1/2 - 1 Mile
Higher

GA WELLS **0000005323**

County code:	127	Well num:	33H198
Remarks:	H. O. NAIL	Lat:	311326
Lon:	0813205	Latlon datum:	NAD27
Alt:	20	Alt datum:	NGVD29
Depth:	180	Depth to casing:	152
Casing dia:	4	Casing matl:	Not Reported
Depth to top:	152	Depth to bot:	180
Opening type:	X	Constr date:	19820401
Discharge:	Not Reported	Prim use:	H
Aquifer code:	122MOCN	Edr id:	0000005323

K34
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000255221**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H318	Type:	Well
Description:	GARY LANE	HUC:	03070203
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:	1988
Well Depth:	Not Reported	Well Depth Units:	Not Reported
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

---

K35
NNE
1/2 - 1 Mile
Higher

GA WELLS **0000005338**

County code:	127	Well num:	33H318
Remarks:	GARY LANE	Lat:	311336
Lon:	0813219	Latlon datum:	NAD27
Alt:	10	Alt datum:	NGVD29
Depth:	Not Reported	Depth to casing:	Not Reported
Casing dia:	4	Casing matl:	S
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	1988
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005338

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

36
NE
1/2 - 1 Mile
Higher

FRDS PWS **GA1270058**

Epa region:	04	State:	GA
Pwsid:	GA1270058	Pwsname:	OAK ACRES SUBDIVISION
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13127
Status:	Active	Retpopsrvd:	36
Pwssvcconn:	14	Psource longname:	Groundwater
Pwstype:	CWS	Owner:	Private
Contact:	SAPP, JR, WOODROW	Contactorgname:	SAPP, JR, WOODROW
Contactphone:	912-265-2603	Contactaddress1:	4774 NEW JESUP HIGHWAY
Contactaddress2:	Not Reported	Contactcity:	BRUNSWICK
Contactstate:	GA	Contactzip:	31520
Pwsactivitycode:	A		

Pwsid:	GA1270058	Facid:	1080
Facname:	WELL #1 PLANT	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

PWS ID:	GA1270058	PWS name:	OAK ACRES SUBDIVISION
Address:	3 OAK ACRES ROAD	Care of:	OAK ACRES SUBDIVISION
City:	BRUNSWICK	State:	GA
Zip:	31523	Owner:	OAK ACRES SUBDIVISION
Source code:	Ground water	Population:	38

PWS ID:	GA1270058	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	County:	GLYNN
Source:	Ground water	Treatment Objective:	DISINFECTION
Process:	HYPOCHLORINATION, POST	Population:	38

PWS ID:	GA1270058	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00000050	System name:	OAK ACRES SUBDIVISION
System address:	OAK ACRES S/D	System address:	11 OAK ACRES
System city:	BRUNSWICK	System state:	GA
System zip:	31520		

Population served:	Under 101 Persons	Treatment:	Treated

Latitude:	311322	Longitude:	0813159

State:	GA	Latitude degrees:	31
Latitude minutes:	13	Latitude seconds:	22.0000
Longitude degrees:	81	Longitude minutes:	31
Longitude seconds:	59.0000		

L37
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000255235**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	33H298	Type:	Well

Description:	JOHN RINNIER	HUC:	03070203
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:	Surficial Aquifer
Aquifer Type:	Not Reported	Construction Date:	19900404
Well Depth:	160	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1991-04-10
Feet below surface:	1.41	Feet to sea level:	Not Reported
Note:	Not Reported		

L38
North
1/2 - 1 Mile
Higher

GA WELLS **0000005350**

County code:	127	Well num:	33H298
Remarks:	JOHN RINNIER	Lat:	311344
Lon:	0813247	Latlon datum:	NAD27
Alt:	11	Alt datum:	NGVD29
Depth:	160	Depth to casing:	121
Casing dia:	4.5	Casing matl:	P
Depth to top:	121	Depth to bot:	160
Opening type:	X	Constr date:	19900404
Discharge:	Not Reported	Prim use:	H
Aquifer code:	Not Reported	Edr id:	0000005350

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for GLYNN 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 GLYNN COUNTY, GA

Number of sites tested: 5

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.260 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.400 pCi/L	100%	0%	0%
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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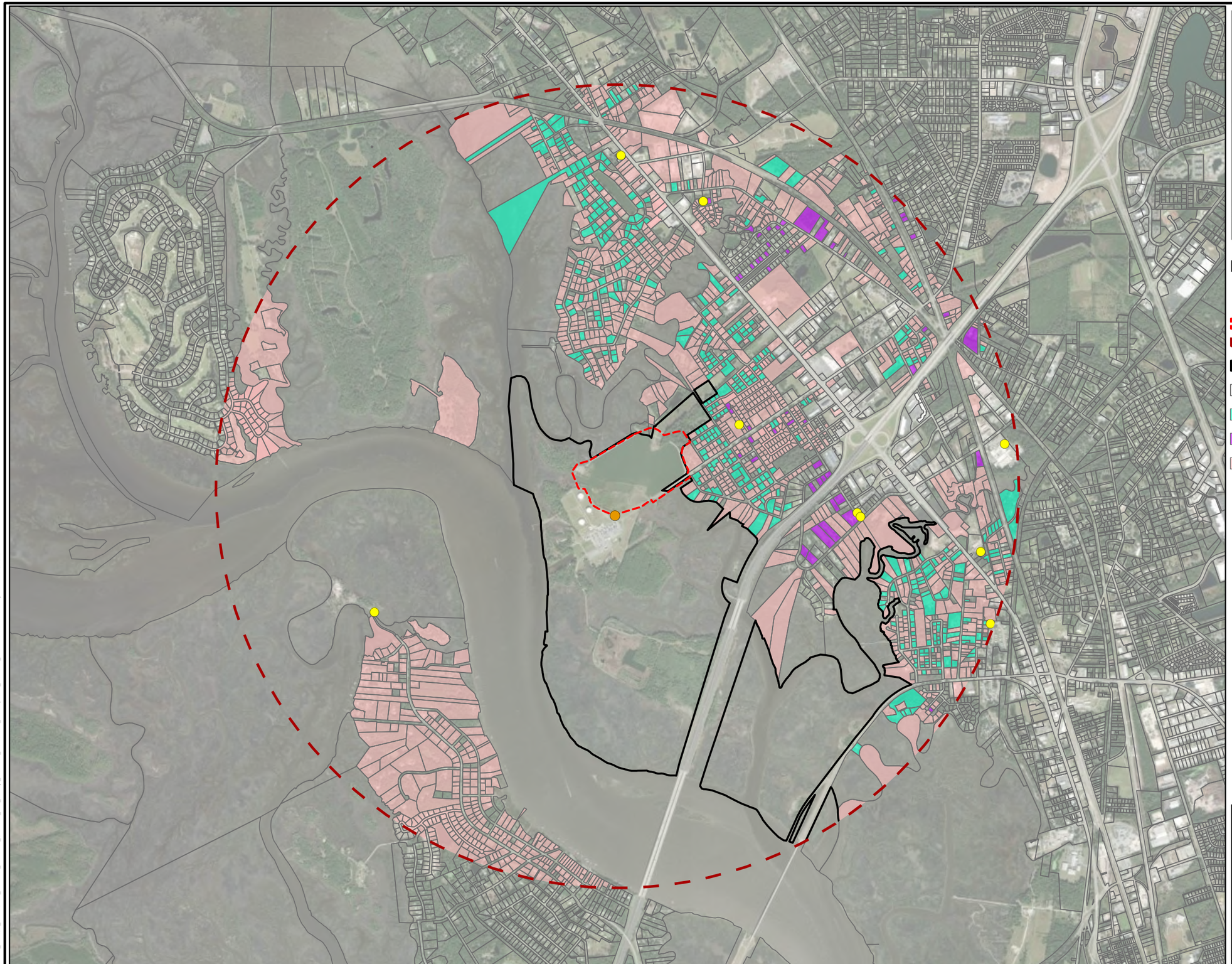

LEGEND

- WELL OWNED BY GEORGIA POWER
- COMMUNITY OR PUBLIC WATER WELL
- ASH POND 1
- 2-MILE BUFFER OF SITE LOCATION
- GEORGIA POWER PROPERTY BOUNDARY
- PARCEL BOUNDARY
- PARCEL WITH PRIVATE DRINKING WELL
- PARCEL WITH INACTIVE WELL
- PARCEL IDENTIFIED AS LIKELY HAVING A WELL

NOTE:
AERIAL IMAGE SOURCES: DRONE IMAGERY DATED 12/07/2023; ESRI GOOGLE EARTH WEB SERVICE, ACCESSED 2/5/2026.

2,500 1,250 0 2,500

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA EAST FIPS 1001 FEET

Georgia Power

PLANT McMANUS

WELL LOCATION MAP

ARCADIS

FIGURE 1

PATH: T:_ENVGA_PowerPlant_McManus_Brunswick_GA\Water_Well_Survey_Prov\Water_Wells\Water_Wells.aprx\FI_McManus_PublicWells Last Saved by: _ltrum 7/16/2026