2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

Plant Arkwright
Ash Pond 2 Dry Ash Stockpile
Macon, Georgia

July 31, 2025

Prepared for:

Georgia Power

Prepared by:
Stantec Consulting Services Inc.
1150 Sanctuary Parkway, Suite 425
Alpharetta, Georgia 30009

CERTIFICATION STATEMENT

This *2025 Annual Groundwater Monitoring and Corrective Action Report, Plant Arkwright, Ash Pond 2 Dry Ash Stockpile* has been prepared in accordance with the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 and 391-3-4.14 by a qualified groundwater scientist or engineer with Stantec Consulting Services, 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.

Jennifer Kolbe, Ph.D., P.E.
Senior Principal

GEORGIA REGISTERED No. PE034643 PROFESSIONAL ENGINEER JENNIFER L. KOLBE

7/31/2025
Date

Katie Ross, P.G.
Senior Principal

KATIE T. ROSS GEORGIA REGISTERED PROFESSIONAL GEOLOGIST No. 1776

7/31/2025
Date

Table of Contents

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

Executive Summary

This summary of the *2025 Annual Groundwater Monitoring and Corrective Action Report* provides the status of the groundwater monitoring and corrective action program from July 2024 through June 2025 at the Georgia Power Company (Georgia Power) former Plant Arkwright Ash Pond 2 Dry Ash Stockpile (AP-2 DAS). This summary was prepared by Stantec Consulting Services Inc. (Stantec) on behalf of Georgia Power to meet the requirements listed in Georgia Environmental Protection Division (GA EPD) Rules of Solid Waste Management 391-3-4-.10(6)(a)-(c) and 391-3-4-.14.

Plant Arkwright is located in Bibb County, Georgia, approximately 6 miles northwest of the city of Macon. The plant address is 5241 Arkwright Road, Macon, Georgia, 31210. The 11-acre AP-2 DAS is located between Arkwright Road to the north and Beaverdam Creek to the south. When in operation, the coal-fired Plant Arkwright power plant consisted of four 40-megawatt units. In the years before retirement, the plant was used primarily to provide peaking power and operated approximately 40 to 60 days per year. Plant Arkwright was retired in 2002 and decommissioned in 2003. Georgia Power officially closed the AP-2 DAS in 2010, with GA EPD's approval and in accordance with the solid waste landfill regulations in effect at the time of its closure.

Plant Arkwright Ash Pond 2 Dry Ash Stockpile

The groundwater monitoring program for AP-2 DAS is managed in accordance with Georgia Solid Waste Management Rules for Groundwater Monitoring and Corrective Action of a municipal solid waste landfill, Rule 391-3-4-.14, per GA EPD Permit No. 011-031D(LI). AP-2 DAS is also subject to the GA EPD Rules for Solid Waste Management 391-3-4-.10 for coal combustion residuals (CCR) management. Georgia Power submitted a CCR permit application to GA EPD in 2018 proposing closure by removal of AP-2 DAS to a lined landfill. Groundwater at AP-2 DAS is monitored using a comprehensive groundwater monitoring system that meets GA EPD requirements. Groundwater sampling and reporting for compliance to meet requirements of Rule 391-3-4.10 began after baseline upgradient groundwater conditions were established between August 2016 and October 2018. Based on groundwater conditions at AP-2 DAS, an assessment monitoring program was initiated on November 13, 2019, and assessment of corrective measures began on July 9, 2020. During the 2024 semi-annual reporting period, AP-2 DAS 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 on February 28, 2024.

During the 2025 annual reporting period, Stantec conducted two groundwater sampling events in August 2024 and February 2025. As part of a pre-design investigation for corrective action at AP-2, two piezometers, ARAMW-10 and ARAMW-11, were installed in November 2024 to evaluate cobalt and lithium concentrations and to potentially use these piezometers for future pilot testing at the site. Additionally, piezometer ARAMW-12 was installed in November 2024 to evaluate molybdenum

concentration with depth in the vicinity of well ARGWC-23. The new piezometers ARAMW-10 and ARAMW-11 were sampled in December 2024 and March 2025 and were included in the February 2025 sampling event. Samples collected in August and December 2024 and February and March 2025 were analyzed for the full suites of Appendix III[1] and Appendix IV[2] constituents listed in Title 40, Code of Federal Regulations Part 257 (CCR Rule) and the GA EPD Appendix I constituent silver. Per the CCR Rule, groundwater results for the August 2024 and February 2025 data were evaluated in accordance with the certified statistical methods. Statistical analyses indicate statistically significant increases (SSIs) for Appendix III constituents above the statistical limits and statistically significant levels (SSLs) of Appendix IV constituents above the groundwater protection standards as summarized below. Cobalt and lithium SSLs were identified in well ARAMW-7, and an SSL of lithium was identified in ARGWC-23, similar to recent reports for AP-2-DAS. Additionally, an SSL of molybdenum was identified in ARAMW-8, at AP-2 DAS.

Appendix III Constituents	**August 2024**
Boron	ARGWC-21, ARGWC-22, ARGWC-23
Calcium	ARGWC-21, ARGWC-22, ARGWC-23
Fluoride	ARGWC-23
pH	ARGWC-21, ARGWC-23
Sulfate	ARGWC-21, ARGWC-22, ARGWC-23
TDS	ARGWC-21, ARGWC-22, ARGWC-23
Appendix IV Constituents	**August 2024**
Cobalt	ARAMW-7
Lithium	ARAMW-7, ARGWC-23
Molybdenum	ARAMW-8

Appendix III Constituents	**February 2025**
Boron	ARGWC-21, ARGWC-22, ARGWC-23
Calcium	ARGWC-21, ARGWC-22, ARGWC-23
Fluoride	ARGWC-23
pH	ARGWC-23
Sulfate	ARGWC-21, ARGWC-22, ARGWC-23
TDS	ARGWC-21, ARGWC-22, ARGWC-23
Appendix IV Constituents	**February 2025**
Cobalt	ARAMW-7
Lithium	ARAMW-7, ARGWC-23
Molybdenum	ARAMW-8

Based on review of the CCR Rule Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program from July 2024 through June 2025, assessment monitoring will continue along with assessment of corrective measures. Georgia Power will continue routine groundwater monitoring and reporting at AP-2 DAS. Reports will be submitted to GA EPD semi-annually.

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

Acronyms / Abbreviations

40 CFR	Title 40 Code of Federal Regulations
ACM	Assessment of Corrective Measures
AP-2	Ash Pond 2
AP-2 DAS	Ash Pond 2 Dry Ash Stockpile
CCR	Coal Combustion Residuals
CCR Rule	40 CFR § 257 Subpart D
District	Washington Slope District
DO	Dissolved Oxygen
GA EPD	Georgia Environmental Protection Division
GEL	GEL Laboratories LLC
Georgia Power	Georgia Power Company
GSC	Groundwater Stats Consulting LLC
GWPS	Groundwater Protection Standards
mg/L	Milligrams per Liter
NAVD88	North American Vertical Datum of 1988
NELAP	National Environmental Laboratory Accreditation Program
NTU	Nephelometric Turbidity Units
ORP	Oxidation-Reduction Potential
Pace	Pace Analytical Services LLC
PDI	Pre-Design Investigation
PWR	Partially Weathered Rock
QA/QC	Quality Assurance/Quality Control
Site	Former Plant Arkwright Ash Pond 2 Dry Ash Stockpile
SSI	Statistically Significant Increase
SSL	Statistically Significant Level
Stantec	Stantec Consulting Services, Inc.
TDS	Total Dissolved Solids
Unified Guidance	Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 2009
UPL	Upper Prediction Limit
US EPA	United States Environmental Protection Agency
UTL	Upper Tolerance Limit

1.0 Introduction

In accordance with the Georgia Environmental Protection Division (GA EPD) Rules of Solid Waste Management 391-3-4-.10(6)(a)-(c) and 391-3-4-.14, this *2024 Semi-Annual Groundwater Monitoring and Corrective Action Report* has been prepared to document groundwater monitoring activities conducted at the Georgia Power Company (Georgia Power) former Plant Arkwright Ash Pond 2 (AP-2) Dry Ash Stockpile (AP-2 DAS) Site (Site). To specify groundwater monitoring requirements, GA EPD Rule 391-3-4-.10(6)(a) incorporates by reference the United States Environmental Protection Agency (US EPA) Title 40 Code of Federal Regulations (40 CFR) § 257 Subpart D - Standards for the Disposal of Coal Combustion Residuals (CCR) in Landfills and Surface Impoundments (CCR Rule). For ease of reference, the applicable CCR Rule references are cited within this report.

Groundwater monitoring and reporting for Plant Arkwright AP-2 DAS are performed in accordance with the monitoring requirements of 40 CFR § 257.90 through § 257.96. This annual report documents the activities completed between July 2024 and June 2025. Two semi-annual assessment monitoring events were conducted during this reporting period in August 2024 and February 2025. Additionally, sampling events were performed in December 2024 and March 2025 to collect baseline samples from piezometers installed in November 2024 (ARAMW-10, ARAMW-11, and ARAMW-12).

Due to statistically significant levels (SSLs) of certain CCR Rule Appendix IV constituents identified in the *2020 Annual Groundwater Monitoring and Corrective Action Report* (Wood, 2020a), Georgia Power initiated an assessment of corrective measures (ACM) for AP-2 DAS on July 9, 2020, pursuant to 40 CFR § 257.96(b), and an ACM Report for cobalt was prepared and submitted to GA EPD in December 2020 (Wood, 2020b). Based on statistical analyses on the recent semi-annual sampling events at AP-2 DAS, cobalt and lithium show SSLs at well ARAMW-7, lithium is an SSL at ARGWC-23, and molybdenum is an SSL at ARAMW-8.

A Draft Remedy Section Report was submitted to GA EPD on February 28, 2024, proposing in-situ injections with monitored natural attenuation as a remedy to address the cobalt and lithium SSLs at ARAMW-7. Evaluation of SSLs for lithium at ARGWC-23 and molybdenum at ARAMW-8, which occurred after submittal of the Draft Remedy Selection Report, indicates that the proposed remedy can be applied to the additional SSLs. Lithium is expected to exhibit similar behavior at ARGWC-23 as was modeled for ARAMW-7 (Stantec 2024). Similarly, treatability testing for molybdenum and cobalt (Stantec 2024) identified potential amendments that would be effective for reducing concentrations of each constituent.

Well ARAMW-7 is screened between shallow well ARGWC-22 and deep well ARAMW-9. Both ARGWC-22 and ARAMW-9 do not show an SSL for cobalt or lithium establishing vertical delineation of the SSLs at ARAMW-7.

Vertical delineation for lithium in ARGWC-23 is completed by the adjacent deep well ARAMW-8, which does not show an SSL for lithium.

Vertical delineation is in progress for the newly identified SSL of molybdenum in ARAMW-8. The installation of well ARAMW-12 in November 2024 is intended to vertically delineate molybdenum in well ARAMW-8. However, ARAMW-12 does not currently produce water sufficient for sampling as is further discussed in Sections 2.3 and 5.0.

The cobalt, lithium, and molybdenum SSLs at AP-2 DAS are horizontally delineated by downgradient surface water samples with constituents being below analytical laboratory method detection limits, which are well below the Groundwater Protection Standard (GWPS).

1.1 Site Description and Background

Plant Arkwright is located in Bibb County, Georgia, approximately 6 miles northwest of the city of Macon (Figure 1). The physical address of the plant is 5241 Arkwright Road, Macon, Georgia 31210. The 11-acre AP-2 DAS is located between Arkwright Road to the north and Beaverdam Creek to the south (Figure 2). When in operation, the coal-fired Plant Arkwright power plant consisted of four 40-megawatt units. In the years before retirement, the plant was used primarily to provide peaking power and operated approximately 40 to 60 days per year. Plant Arkwright was retired in 2002 and decommissioned in 2003.

Plant Arkwright AP-2 DAS was used as a storage area for CCR beginning in the 1950s and was estimated to have been closed in-place in the late 1970s to early 1980s. Georgia Power officially closed AP-2 DAS in 2010 with GA EPD's approval and in accordance with the solid waste landfill regulations specified by GA EPD Rule 391-3-4 in effect at the time of its closure. A Closure Certificate was issued by GA EPD for AP-2 DAS on June 30, 2010. The Closure Certificate initiated the post-closure care period for the CCR unit, which has been performed in accordance with the GA EPD Permit No. 011-031D(LI) following closure. Georgia Power submitted a CCR permit application to GA EPD in 2018 proposing closure by removal of AP-2 DAS to a lined landfill, which is currently under review.

Semi-annual groundwater monitoring at AP-2 DAS is performed for an approved list of analytes in accordance with the post-closure care period requirements of GA EPD Permit No. 011-031D(LI). The permit lists GA EPD 391-3-4-.10 Appendix I constituents as arsenic, barium, cadmium, chloride, lead, selenium, silver, and sulfate. A minor modification approved by GA EPD on August 9, 2017, added the CCR Rule Appendix III and IV constituents to the groundwater monitoring plan. The GA EPD Appendix I constituents overlap with the CCR Rule Appendix III and IV constituents, with the exception of silver.

1.2 Regional Geology & Hydrogeologic Setting

The geology and hydrogeology of the Plant Arkwright Site are summarized below. The Plant Arkwright Site is located along the southern edge of the Washington Slope District (the District) within the Piedmont Physiographic Province (Clark and Zisa, 1976). The District is characterized by a gently undulating surface, which generally slopes to the south and southeast toward the Coastal Plain Physiographic Province located approximately 3.8 miles to the southeast of the Site.

Topography of the District ranges from approximately 700 feet above mean sea level in the areas of southern Atlanta and Athens to approximately 500 feet above mean sea level at its southern limit along the Georgia Fall Line. Streams follow the surface topography of the underlying crystalline rocks eastward toward the Ocmulgee River. Typically, relief throughout the District ranges between 50 and 100 feet. However, the greatest relief occurs along the Ocmulgee River where the elevation changes from 150 to 200 feet due to steep walled valleys (Clark and Zisa, 1976). Ultimately, the area surface water flow is directed toward the Ocmulgee River.

Bedrock in the region is composed of moderate to high-grade metamorphic rocks, consisting of biotite-granite gneiss, schist, amphibolite, and igneous rocks like granite. In the southernmost Piedmont, around the Site, bedrock is predominantly composed of biotite gneiss. Major geologic structures in the region include the Ocmulgee fault, located approximately 7 miles northwest of the Site, which strikes mostly northeast – southwest. The top of bedrock surface is highly weathered and, where exposed, is generally soft and friable (LeGrand, 1962).

1.2.1 Site Geology

The general geology beneath Plant Arkwright consists of clays, silty and sandy clays, silty sands, sandy silts, and minor gravel at depth, underlain by a silty sand saprolite and bedrock. Historical borings advanced at the Site indicate bedrock occurs at depths ranging from approximately 14 to 63 feet below ground surface and consists of weathered quartzofeldspathic gneiss, hornblende gneiss, and schist. Boring logs also indicate a relatively thin zone of partially weathered rock (PWR) above a more competent bedrock, which ranges in thickness from 1 to 4 feet in the southern and eastern portions of the Site, and up to 14 feet in the northeastern portion of the Site.

1.2.2 Site Hydrogeology

The uppermost aquifer at the Site consists of saturated overburden, PWR, and upper bedrock. The overburden consists of alluvial and saprolitic material up to 26 ft thick. The PWR is relatively thin, ranging from approximately 5 to 20 ft thick, and is relatively more permeable than the overburden. The PWR is underlain by upper bedrock that has little to no primary (intergranular) porosity as evident in the bedrock and little to no permeability. Accordingly, the observed ability of the upper bedrock to transmit groundwater is largely dependent on the presence and frequency of open fractures.

The upper bedrock is characterized by an increased number of fractures immediately below the overburden/PWR and bedrock contact and its hydraulic connection of these fractures to the overburden. Comparison of recent AP-2 DAS groundwater elevation data (Stantec, 2025b) at adjacent overburden and upper bedrock monitoring wells and piezometers show that groundwater elevations in the overburden and upper bedrock are nearly identical. This, in combination with observed weathering and discoloration in fractured and weathered zones at the bedrock contact, suggests that groundwater in the overburden and upper bedrock fractures is hydraulically connected and is considered to be under unconfined conditions. The monitoring well network for AP-2 DAS (Figure 2) monitors the uppermost aquifer at the Site.

The top of the uppermost aquifer is defined by the (unconfined) water table surface present at depths of approximately 6 to 26 feet below ground surface (feet bgs) within the AP-2 DAS boundary. The water table surface is typically found within the native soil or saprolite horizons underlying the AP-2 DAS. The bottom of the uppermost aquifer is competent bedrock below the upper bedrock zone of fractured and weathered bedrock. Investigation data show that the bottom of the uppermost aquifer ranges from approximately 15 to 30 feet below the top of bedrock and that the zone monitored by deeper bedrock well ARAMW-9 and piezometer ARAMW-12 are not in direct hydraulic communication with the overlying uppermost aquifer (Stantec, 2025b).

Measured K_h values for the Uppermost aquifer range from 9.86 x 10^{-4} centimeters per second (cm/s) to 5.34 x 10^{-3} cm/s. The geometric mean K_h values for the overburden (2.61 x 10^{-4} cm/s) and the fractured bedrock (2.71 x 10^{-4} cm/s) are similar. The geometric mean of all the currently available K_h values for Uppermost Aquifer materials is 2.66 x 10^{-4} cm/s (0.75 feet per day) (Stantec, 2025b). Groundwater level gauging data from the Site show stable water level trends and the potentiometric surface maps depict groundwater generally flowing to the south across AP-2 DAS (Figures 3 and 4).

1.3 Groundwater Monitoring System

Pursuant to 40 CFR § 257.91, Georgia Power installed a groundwater monitoring system within the uppermost aquifer at AP-2 DAS. The groundwater monitoring system is designed to monitor groundwater passing the waste boundary of AP-2 DAS within the uppermost aquifer. Wells were located to serve as upgradient or downgradient monitoring points based on the groundwater flow direction (Table 1). The monitoring well locations are depicted in Figure 2.

2.0 Groundwater Monitoring Activities

The following describes monitoring-related activities performed between July 2024 and June 2025. Samples were collected from each of the wells in the groundwater monitoring system depicted in Figure 2. In accordance with 40 CFR § 257.93, Table 2 presents a summary of the groundwater sampling events completed for AP-2 DAS during this monitoring period.

2.1 Monitoring Well Installation and Maintenance

Monitoring wells are inspected semi-annually to determine if repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In August 2024, the monitoring wells were inspected. No needed corrective actions were identified, as documented in Appendix A.

Assessment monitoring wells ARGWC-21, ARGWC-22, ARGWC-23, ARAMW-1, ARAMW-2, ARAMW-7, and ARAMW-8 were redeveloped between August 13, 2024, and August 14, 2024. Assessment monitoring wells ARGWC-21, ARGWC-22, ARGWC-23, ARAMW-7, and ARAMW-8 were again redeveloped between January 28, 2025, and January 29, 2025. These wells, located along the northern bank of Beaver Dam Creek, are redeveloped prior to sampling events as a conservative measure due to frequent flooding in this area that leads to the inundation of well protective casings. Field logs recording the redevelopment of the assessment monitoring wells are provided in Appendix B.

In November 2024, as part of Pre-Design Investigation (PDI) and delineation activities, piezometers ARAMW-10 (bedrock) and ARAMW-11 (overburden) were installed south of AP-2 DAS, and piezometer ARAMW-12 (bedrock) was installed southeast of AP-2 DAS. The piezometer installation report was submitted under separate cover (Stantec, 2025a).

During the November 2024 drilling event, the elevations of monitoring wells were altered, either to facilitate drilling access or as part of repairs made following the event. A summary of well maintenance and repairs is included in Appendix A. The wells were re-surveyed on December 9, 2024. The surveying results are included with the well installation report and elevations have been updated for gauging events following the well repairs.

2.2 Assessment Monitoring

Georgia Power implemented assessment monitoring in accordance with 40 CFR § 257.95 in November 2019. During the 2025 annual reporting period, semi-annual assessment monitoring events at AP-2 DAS were conducted on August 20, 2024, and February 4, 2025. Groundwater samples were collected from each well in the certified groundwater monitoring system and analyzed for the full suites of CCR Rule Appendix III and Appendix IV constituents and the GA EPD Appendix I constituent, silver. Laboratory and field data reports for the August 2024 and February 2025 monitoring events are included in Appendix B.

2.3 Surface Water Sampling and Additional Groundwater Sampling

Due to the close proximity of Beaverdam Creek in the downgradient direction of ARAMW-7, further well installation was not feasible. Instead, five surface water samples were collected on August 12, 2024, and February 10, 2025, from locations along Beaverdam Creek near AP-2 DAS, as shown on Figure 2.

Surface water samples were analyzed for the full suite of 40 CFR Part 257 Appendix III constituents and targeted SSL Appendix IV constituents. Surface water samples were also submitted for analysis of total alkalinity, bicarbonate alkalinity, magnesium, potassium, and sodium. The laboratory reports associated with the August 2024 and February 2025 sampling events are provided in Appendix B.

During the August 2024 and February 2025 semi-annual sampling events, groundwater samples were analyzed for dissolved iron and manganese in addition to the parameters described in Section 2.2. Dissolved iron and manganese concentrations provide information regarding the oxidation-reduction conditions, which is a key factor influencing the behavior of cobalt in the subsurface. Results are included in the laboratory analytical reports in Appendix B.

Piezometers ARAMW-10 and ARAMW-11 were installed in November 2024 and sampled in December 2024, February 2025, and March 2025. Groundwater samples were analyzed for the parameters described in Section 2.2 and dissolved iron and manganese. Results are included in the laboratory analytical reports in Appendix B.

Piezometer ARAMW-12 could not be sampled during sampling events performed to date due to lack of recharge and elevated turbidity in the well. Attempts to develop and sample this well in December 2024, February 2025, and March 2025 were unsuccessful. Without groundwater recharge and proper well development, it is unlikely that a representative groundwater sample can collected from this screened well depth.

3.0 Sample Methodology & Analyses

The semi-annual groundwater sampling events completed in August 2024 and February 2025 for AP-2 DAS included sampling for the constituents listed in CCR Rule Appendix III and Appendix IV, with the addition of silver, which is a constituent in GA EPD Appendix I. Groundwater analytical data and chain-of-custody records are located in Appendix B. The following sections describe methods used to conduct the groundwater monitoring activities at AP-2 DAS.

3.1 Groundwater Elevation Measurements and Flow Direction

Prior to each sampling event, the static groundwater levels were measured in each monitoring well at AP-2 DAS. The water level indicator was properly decontaminated between each monitoring well. Groundwater elevations are summarized in Table 3. The recorded water level data were used to determine the groundwater elevations in each well and develop potentiometric surface elevation contour maps (Figures 3 and 4). Review of the figures indicates that the apparent groundwater flow direction in the uppermost aquifer is to the south in the direction of Beaverdam Creek. This groundwater flow pattern is consistent with historical groundwater flow patterns.

3.2 Groundwater Gradient and Flow Velocity

The groundwater flow velocity at AP-2 DAS was calculated using a derivation of Darcy's Law. Specifically,

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

Where:

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

K = Average hydraulic conductivity of the aquifer $\left(\frac{feet}{day}\right)$

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

n_e = Effective porosity (unitless)

The general groundwater flow velocities were calculated for AP-2 DAS based on hydraulic gradients, average hydraulic conductivity based on previous slug test data, and an estimated effective porosity of 0.20 (based on a review of several sources, including Driscoll, 1986; US EPA, 1989; Freeze and Cherry, 1979). The general groundwater flow velocity values based on August 19, 2024, and February 3, 2025, groundwater elevations are presented in Table 4. The results for groundwater flow velocity through the central portion of AP-2 DAS ranged from 0.092 feet/day (34 feet/year) in August 2024 to 0.086 feet/day (31 feet/year) in February 2025. Groundwater flow velocity through the eastern portion ranged from 0.082 feet/day (30 feet/year) in August 2024 to 0.079 feet/day (29 feet/year) in February 2025. The observed groundwater flow velocities calculated for these monitoring events are generally consistent with expected velocities in the regolith-upper bedrock aquifers of the Georgia Piedmont.

3.3 Groundwater Sampling

Groundwater samples were collected in August 2024, December 2024 (ARAMW-10 and ARAMW-11 only), February 2025, and March 2025 (ARAMW-10, ARAMW-11, and ARAMW-7). Sampling procedures were conducted in accordance with US EPA Region 4 *Laboratory Services and Applied Science Division Operating Procedures for Groundwater Sampling* (LSASDPROC-301-R6, April 22, 2023). Monitoring wells were purged and sampled using low-flow sampling procedures. Dedicated or non-dedicated low-flow pneumatic bladder or peristaltic pumps were used to purge and sample the wells. An In-Situ Aqua TROLL® 400 field instrument was used to monitor and record field water quality parameters (pH, conductivity, dissolved oxygen [DO], temperature, and oxidation-reduction potential [ORP]) and a Hach 2100Q was used to measure turbidity during well purging to verify stabilization prior to sampling.

Groundwater samples were collected when the following stabilization criteria were met for three consecutive readings measured at five-minute intervals.

- pH ± 0.1 Standard Units
- Specific conductance ± 5 %
- ± 10% for DO where DO > 0.5 milligrams per liter (mg/L). No criterion applies if DO < 0.5 mg/L
- Turbidity measurements less than five Nephelometric Turbidity Units (NTU)
- Temperature – Record only, not used for stabilization criteria
- ORP – Record only, not used for stabilization criteria

Once stabilization was achieved, samples were collected into appropriately preserved laboratory-supplied sample containers. If turbidity readings were greater than 10 NTU at the time of sampling and after 3 hours of purging, a dissolved metals sample would be collected by filtering the water with a 0.45-micron water filter. During the current reporting period, a filtered sample was submitted for ARGWA-20 in February 2025. Other turbidity readings were below 10 NTUs during the current reporting period, and no additional filtered samples were collected. Sample bottles were placed in ice-packed coolers and submitted to GEL Laboratories LLC (GEL) in Charleston, South Carolina, following chain-of-custody protocols. Stabilization logs and equipment calibration forms are included in Appendix B.

3.4 Surface Water Sampling

Surface water samples were collected in August 2024 and February 2025. Sampling was performed in accordance with US EPA Region 4 *Laboratory Services and Applied Science Division Operating Procedures for Surface Water Sampling* (LSASDPROC-201-R6, April 22, 2023).

Surface water samples were analyzed for the full suite of 40 CFR Part 257 Appendix III and targeted SSL Appendix IV constituents. Surface water samples were also submitted for analysis of total alkalinity, bicarbonate alkalinity, magnesium, potassium, and sodium.

Sample bottles were placed in ice-packed coolers and submitted to Pace Analytical Services, LLC (Pace) of Peachtree Corners, Georgia, following chain-of-custody protocol.

3.5 Laboratory Analyses

The groundwater samples were analyzed for CCR Rule Appendix III and Appendix IV constituents, as well as the GA EPD Appendix I constituent, silver. The samples were analyzed for additional parameters[3] to assist with ongoing remedy evaluation. Laboratory analyses of the groundwater were performed by GEL, which is accredited by the National Environmental Laboratory Accreditation Program (NELAP) and maintains the NELAP accreditation for the constituents analyzed for this project. Table 5 summarizes the groundwater analytical results, and the corresponding formal analytical reports are in Appendix B.

The August 2024 and February 2025 surface water samples were also analyzed for CCR Rule Appendix III and Appendix IV constituents. Laboratory analyses of the surface water samples were performed by Pace, which is also a NELAP accredited laboratory. Table 6 summarizes the surface water analytical results, and the corresponding formal analytical reports can be found in Appendix B.

3.6 Quality Assurance & Quality Control

During each sampling event, various quality assurance/quality control (QA/QC) samples were collected. Equipment blanks (where non-dedicated sampling equipment was used) were collected at a rate of one QA/QC sample per 10 groundwater samples to assess the adequacy of the decontamination process. Blind field duplicate samples were collected by filling additional containers at the same location during the sampling events at a rate of one QA/QC sample per 10 groundwater samples. Field blanks were also collected to evaluate ambient conditions at the sampling locations at a rate of one QA/QC sample per 10 groundwater samples.

QA/QC of the groundwater data were assessed by performing a data quality evaluation of the laboratory results reported. A data quality evaluation was conducted on the data using laboratory precision and accuracy and analytical method requirements (US EPA, 2002). The data quality evaluations are included in Appendix B.

The analytical results provided in Tables 5 and 6 provide concentrations from the August 2024, December 2024, February 2025, and March 2025 groundwater assessment monitoring and surface water sampling events as reported by the laboratories. When values are followed by a ”J” flag, this indicates that the value is an estimated analyte concentration detected between the method detection limit and the laboratory reporting limit. The estimated value is positively identified but is below the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions. Radium values followed by a “U” flag indicate that the constituent was not detected above the analytical minimum detectable concentration. The data are considered usable for meeting project objectives and the results are considered valid.

[3] Total alkalinity, bicarbonate alkalinity, carbonate alkalinity, total iron, manganese, total magnesium, potassium, and sodium

4.0 Statistical Analyses

Statistical analyses of GA EPD Appendix I (silver) and CCR Rule Appendix III and Appendix IV constituents were performed on samples collected from the groundwater monitoring system pursuant to 40 CFR § 257.93(f) and following the statistical method for AP-2 DAS. In addition, pursuant to 40 CFR § 257.95(d)(2), GWPS were established for the Appendix IV constituents from the assessment monitoring event. The groundwater data were statistically analyzed by Groundwater Stats Consulting, LLC (GSC). The reports generated from the analyses are provided in Appendix C.

The following sections provide an overview of the statistical methods used to evaluate the GA EPD Appendix I and CCR Rule Appendix III and Appendix IV constituents and statistical analyses results.

4.1 Statistical Method

The statistical analysis method used at AP-2 DAS was developed by GSC using methodology presented in the *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 200*9, EPA 530/R-09-007 (US EPA, 2009) (Unified Guidance). Sanitas™ Statistical Software is a commercially available decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by US EPA regulations and guidance as recommended in the Unified Guidance. Specific methodology information is described in the following paragraphs.

4.2 Appendix I and Appendix III Statistical Method

Interwell prediction limits were used for the analysis of the six GA EPD Appendix I constituents (arsenic, barium, cadmium, lead, selenium, and silver) and the full suite of CCR Rule Appendix III constituents. A comparison of confidence intervals to GWPS was also used to evaluate the GA EPD Appendix I constituents. When using the interwell method, upgradient well data are pooled to establish a background statistical limit (upper prediction limit [UPL] or in the case of pH, prediction interval) for each constituent. Individual sample results are then compared to the UPL, or prediction interval for pH, to determine if an SSI has occurred for the constituent/well pair. When an initial SSI is identified, a second sample may be collected to verify the initial result.

The interwell prediction limit assumed a 1-of-2 verification resample plan. If data from a sampling event initially indicate an SSI, then a resample may be collected to verify the initial result. In 1-of-2 resampling, one independent resample is collected and evaluated within 90 days to determine whether the initial SSI is verified. If the resample concentration is above the UPL or a resample is not collected, then the initial SSI is verified. If the resample concentration is less than the UPL, then an SSI is not declared.

Data from groundwater samples from downgradient wells collected in the August 2024 and February 2025 monitoring events were compared to the UPLs to evaluate whether SSIs exist. No resampling was conducted for the 2025 annual monitoring period.

4.3 Appendix IV Statistical Method

The assessment monitoring program statistics for CCR Rule Appendix IV and GA EPD Appendix I constituents were conducted in two parts. The first part was to establish the GWPS for each CCR Rule Appendix IV constituent and GA EPD Appendix I constituent (silver). The second part was the calculation of confidence intervals for individual downgradient well/constituent pairs and then comparing them to the GWPS.

Upper Tolerance Limits (UTLs) were calculated from pooled upgradient well data for Appendix IV constituents. Parametric UTLs were calculated when data followed a normal or transformed-normal distribution. When data contained greater than 50% non-detects or were not in a normal or transformed-normal distribution, non-parametric tolerance limits were used. When parametric methods were appropriate, a 95% UTL with 95% coverage was calculated. When non-parametric UTLs were appropriate, the level of confidence could not be pre-specified and was a function of the size of the data set. The level of confidence for the non-parametric UTLs is provided in the GSC August 2024 and February 2025 reports (Appendix C). The background limits were evaluated when determining the GWPS under 40 CFR § 257.95(h).

Table 7 summarizes the background limits established for each CCR Rule Appendix IV constituent and GA EPD Appendix I constituent (silver) and the GWPS established under GA EPD Rules.

To complete the statistical evaluation, confidence intervals were constructed for each downgradient well/constituent pair and compared to the GWPS. In assessment monitoring, an SSL is identified only when the entire confidence interval is above a GWPS in the downgradient well/constituent pair.

4.4 Statistical Analyses Results – Appendix I and Appendix III

Based on review of the GA EPD CCR Rule Appendix III statistical analysis from the August 2024 and February 2025 sampling events, groundwater conditions have not returned to background concentrations and assessment monitoring will continue. Note that GA EPD Appendix I constituent, silver, was not identified as an SSI during the semi-annual sampling event. The statistical analyses and comparisons to prediction limits are included in Appendix C. Additionally, tables contained in Appendix C summarize the various SSIs identified based on the statistical analyses performed on the recent groundwater analytical results.

4.5 Statistical Analyses Results – Appendix IV

The August 2024 and February 2025 GWPS are based on maximum contaminant levels, the GA EPD adopted Federal GWPS (cobalt, molybdenum, lithium, and lead), and site-specific background concentrations, as required by GA EPD. Appendix C shows the individual well/constituent pairs for CCR Rule Appendix IV constituents and GA EPD constituent (silver) with their respective confidence intervals in comparison to the respective constituent GWPS. Based on the statistical results presented in Appendix C, the identified SSLs include the following.

- August 2024:
    - Lithium: ARAMW-7, ARGWC-23
    - Cobalt: ARAMW-7
    - Molybdenum: ARAMW-8
- February 2025:
    - Lithium: ARAMW-7, ARGWC-23
    - Cobalt: ARAMW-7
    - Molybdenum: ARAMW-8

When GWPSs were exceeded, data were further evaluated for trend. Trend testing utilizing the Sen's Slope/Mann Kendall method at the 95% confidence level was used to determine whether concentrations were statistically increasing, decreasing, or stable. Upgradient well data were included in the trend analyses for parameters found to exceed their GWPSs in downgradient wells to identify whether similar patterns exist upgradient of the site. Statistically significant trends were identified for the following.

- August 2024:
    - Increasing
        - Lithium: ARGWC-23
        - Molybdenum: ARAMW-8
    - Decreasing
        - Molybdenum: ARGWC-19 (upgradient)
- February 2025:
    - Increasing
        - Molybdenum: ARAMW-8
    - Decreasing
        - Molybdenum: ARGWC-19 (upgradient)

5.0 Nature and Extent

Based on statistical analysis of Appendix IV groundwater data, SSLs have been identified for cobalt (ARAMW-7) lithium (ARAMW-7 and ARGWC-23) and molybdenum (ARAMW-8). Concentrations of cobalt, lithium, and molybdenum SSLs detected in these wells are less than an order of magnitude above their respective GWPSs, and the affected area is limited in extent, as described below.

The cobalt and lithium SSLs identified in the compliance well ARAMW-7 and the lithium SSL identified in ARGWC-23 are horizontally and vertically delineated to levels below GWPS. Vertical delineation is completed by sampling adjacent monitoring wells. The SSLs at ARAMW-7 are vertically delineated by deep well ARAMW-9. The SSL at ARGWC-23 is vertically delineated by deep well ARAMW-8.

To vertically delineate the molybdenum SSL in ARAMW-8, a deeper piezometer ARAMW-12 was installed adjacent to ARAMW-8, which was previously installed for the vertical delineation of detection well ARGWC-23 for molybdenum. Since 2022, molybdenum concentrations have been lower than the GWPS in well ARGWC-23. Observation of rock cores collected from ARAMW-12 and results of downhole geophysics indicate competent rock with limited to no water-bearing fractures. Results of geophysical analysis indicate possible water-bearing fractures in the range of 44 – 46 feet below ground surface (similar depth to the screened interval of ARAMW-8) and 62 – 64 feet below ground surface (within the screened interval of ARAMW-12) with competent rock between. While wells shallower than 50-ft depth (like ARAMW-8) have yielded sufficient groundwater for sampling and reporting (Table 5), the formation deeper than the competent rock below 60-ft did not yield groundwater for well development and sampling, despite the apparent fractures noted in the borehole geophysical log. Repeated depth to water measurements in well ARAMW-12 indicated there was less than 3-ft of water column in well ARAMW-12 (possibly relict water from drilling) between its installation in December 2024 and June 2025, which is the high season for groundwater levels. Attempts were made to sample ARAMW-12 during the December 2024, February 2025, and March 2025 sampling events; however, a sample could not be collected due to lack of recharge and elevated turbidity in the well.

Groundwater elevations (Table 3) measured in newly installed piezometers ARAMW-10 and ARAMW-11 are comparable (approximately 296 ft NAVD88) with most nearby wells downgradient of AP-2, including detection well ARGWC-23, which is screened between ~279 ft and 289 ft NAVD88 (Table 1). However, groundwater elevation in newly installed piezometer ARAMW-12 has remained approximately 45 feet lower (about 250 ft NAVD88) for over six months, which would indicate that this piezometer, screened between 50 and 65 ft below land surface and approximately 30-ft into bedrock, is likely below the uppermost aquifer at the Site. In contrast, well ARAMW-9, which is a deep bedrock well screened 93 to 102 ft below land surface, shows water elevation higher than the detection wells at the Site. Taken together, the uppermost aquifer at the Site is limited to depths less than 30 ft of upper bedrock. Based on groundwater elevation data, the deeper wells ARAMW-9 and ARAMW-12 are not in direct hydraulic communication with the shallow aquifer. Given that ARAMW-12 is below the uppermost aquifer and water levels do not indicate hydraulic communication with shallower waterbearing zones, vertical delineation of molybdenum at ARAMW-12 is deemed complete.

Due to the presence of Beaverdam Creek in the downgradient direction from ARAMW-7 and ARGWC-23 and the topography in this area, installation of additional wells to horizontally characterize this area is not

feasible. Based on cobalt and lithium data collected from Beaverdam Creek to date, horizontal delineation is complete. The lateral extent of the cobalt and lithium SSLs in ARAMW-7 and the lithium SSL in ARGWC-23 are limited to areas less than approximately 100 feet wide, as shown on the isoconcentration maps for cobalt and lithium, presented as Figures 5 and 6 (August 2024) and Figures 8 and 9 (February 2025), respectively.

Similarly to the SSLs for cobalt and lithium, molybdenum is not detected in surface water samples from Beaverdam Creek, indicating that the horizontal extent of molybdenum impact is limited. The approximate extent of the lithium SSL is presented on Figure 7 (August 2024) and Figure 10 (February 2025).

6.0 Monitoring Program Status

Pursuant to 40 CFR § 257.96(b), Georgia Power will continue to monitor the groundwater at AP-2 DAS in accordance with the assessment monitoring program regulations in 40 CFR § 257.95 while ACM efforts continue to be evaluated. Pursuant to 40 CFR § 257.95(g)(1)(iv), the assessment monitoring wells will continue to be sampled as part of the ongoing groundwater monitoring program.

6.1 Assessment of Corrective Measures

A Draft Remedy Selection Report (Stantec, 2024) was submitted to GA EPD on February 28, 2024. This report includes

- The current groundwater conceptual site model applicable to evaluating groundwater corrective measures proposed in the ACM Report (Wood, 2020b).
- An evaluation of each corrective measure retained for further consideration following the completed investigations.
- An evaluation of corrective measure options using the comparative criteria such as long- and short-term effectiveness and protectiveness, source control effectiveness, and ease of implementation. The Draft Remedy Selection Report presents geochemical approaches (in-situ injections) coupled with monitored natural attenuation as the proposed groundwater remedy for AP-2 DAS.

In the interim of GA EPD's review of the Draft Remedy Selection Report, Georgia Power continues to make progress towards selection of a remedy through updating routine sampling data and lab treatability testing in preparation for future pilot testing at the Site. The Draft Remedy Selection Report proposed in-situ injections with monitored natural attenuation as a remedy, and a Pilot Test Workplan is being prepared to further evaluate and optimize the injection plan. In addition, treatability studies have been completed to determine injectate materials and to identify proper dosage information.

Evaluation of SSLs for lithium at ARGWC-23 and molybdenum at ARAMW-8, which occurred after submittal of the Draft Remedy Selection Report, indicate that the proposed remedy is expected to be effective, although some adjustments will be needed to account for differences in groundwater chemistry and hydrogeology at the additional locations.

7.0 Conclusions & Future Actions

This *2025 Annual Groundwater Monitoring and Corrective Action Report* was prepared to fulfill the requirements of US EPA's 40 CFR §257.95 and GA EPD Rules for Solid Waste Management 391-3-4-.10. Review of analytical results and statistical analyses indicate SSLs of cobalt and lithium in well ARAMW-7, an SSL of lithium in well ARGWC-23, and an SSL of molybdenum in well ARAMW-8, which are above the established GWPS.

Horizontal delineation of cobalt and lithium SSLs is considered complete by surface water sampling in Beaverdam Creek, and vertical delineation has been achieved by sampling of adjacent monitoring wells. The SSLs at ARAMW-7 are vertically delineated by deep well ARAMW-9. The SSL at ARGWC-23 is vertically delineated by deep well ARAMW-8. Thus, horizontal and vertical delineations of the cobalt and lithium SSLs in well ARAMW-7 and ARGWC-23 are completed at AP-2 DAS.

Vertical delineation is deemed complete for the newly identified SSL of molybdenum in ARAMW-8. The installation of well ARAMW-12 in November 2024 is intended to vertically delineate molybdenum in this area. Observation of rock cores collected from ARAMW-12 and results of downhole geophysics indicate competent rock with limited fractures and no evidence of hydraulic communication with the uppermost aquifer. Attempts were made to develop and sample ARAMW-12 during the December 2024, February 2025, and March 2025 sampling events; however, well development could not be completed and a sample could not be collected due to lack of recharge and elevated turbidity in the well. Similarly to the SSLs for cobalt and lithium, molybdenum is not detected in surface water samples from Beaverdam Creek, indicating that the horizontal extent of molybdenum impact is limited.

Georgia Power will continue to monitor AP-2 DAS under the assessment monitoring program pursuant to 40 CFR §257.95. A Draft Remedy Selection Report, which includes additional data collected in support of ACM efforts and summarizes the evaluation and selection of a proposed corrective measure, or measures, was submitted to GA EPD under separate cover on February 28, 2024. The Draft Remedy Selection Report proposed in-situ injections with monitored natural attenuation as a remedy, and a Pilot Test Workplan is being prepared to further evaluate and optimize the injection plan. Evaluation of SSLs for lithium at ARGWC-23 and molybdenum at ARAMW-8, which occurred after submittal of the Draft Remedy Selection Report, proposed remedy is expected to be effective, although some adjustments will be needed to account for differences in groundwater chemistry and hydrogeology at the additional locations. Details will be incorporated into the final remedy selection report, as applicable.

The next semi-annual sampling event is planned for August 2025 and will include sampling and analysis of CCR Rule Appendix III and Appendix IV constituents, as well as permit-specific GA EPD Appendix I constituents.

8.0 References

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TABLES

TABLE 1
SUMMARY OF MONITORING WELL CONSTRUCTION
Georgia Power Company - Plant Arkwright
Ash Pond 2 Dry Ash Stockpile
Macon, Bibb County, Georgia

Well ID	Well Designation	Hydraulic 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
ARGWA-19	Detection	Upgradient	1063774.24	2439488.29	340.24	343.35	300.18	290.18	53.47	Bedrock	12/16/2008
ARGWA-20	Detection	Upgradient	1063726.52	2439080.28	327.48	330.63	303.18	293.18	37.75	Overburden	12/04/2008
ARGWC-21	Detection	Downgradient	1062941.36	2439112.57	305.47	308.46	291.70	281.70	27.06	Overburden	12/01/2008
ARGWC-22	Detection	Downgradient	1063039.36	2438925.00	306.74	306.80	292.31	282.31	24.79	Overburden	11/19/2019
ARGWC-23	Detection	Downgradient	1062884.32	2439202.25	304.42	307.73	289.59	279.59	28.44	Overburden	11/20/2019
ARAMW-1	Assessment	Downgradient	1062938.42	2439120.06	305.33	308.35	271.79	261.79	46.86	Bedrock	11/20/2019
ARAMW-2	Assessment	Downgradient	1062925.82	2439114.94	305.08	308.28	293.53	283.53	25.05	Overburden	11/20/2019
ARAMW-7	Assessment	Downgradient	1063049.01	2438913.43	306.83	306.95	269.43	259.43	47.82	Bedrock	11/14/2020
ARAMW-8	Assessment	Downgradient	1062895.78	2439197.07	304.90	307.62	267.83	257.83	50.09	Bedrock	11/13/2020
ARAMW-9	Assessment	Downgradient	1063023.87	2438935.81	306.54	306.72	213.91	203.91	103.31	Bedrock	10/07/2022
ARAMW-10	Piezometer	Downgradient	1063082.66	2438903.86	308.39	308.49	260.89	250.89	58.10	Bedrock	11/21/2024
ARAMW-11	Piezometer	Downgradient	1063077.14	2438903.91	308.02	308.09	278.02	268.02	40.57	Overburden	11/21/2024
ARAMW-12	Piezometer	Downgradient	1062906.37	2439199.65	305.80	309.08	255.90	240.90	68.68	Bedrock	12/05/2024

Notes:

Wells were surveyed by Southern Company Civil Field Services Georgia Registered Land Surveyor on December 9, 2024.
Horizontal locations were referenced to Georgia State Plane West, North American Datum of 1983 (NAD 83).
Elevations shown are in datum NAVD88, which indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.
Well screen elevations are calculated by subtracting the depths to top and bottom of the well screen from the ground surface elevation.

TABLE 2
GROUNDWATER SAMPLING EVENT SUMMARY
Georgia Power Company - Plant Arkwright
Ash Pond 2 Dry Ash Stockpile
Macon, Bibb County, Georgia

Well ID	Hydraulic Location	Well Designation	August 20 2024	December 12, 2024	February 04 2025	March 31, 2025
			Assessment Event	Other Event	Assessment Event	Other Event
Georgia Power Company - Plant Arkwright - Ash Pond 2						
ARGWA-19	Upgradient	Detection	X		X	
ARGWA-20	Upgradient	Detection	X		X	
ARGWC-21	Downgradient	Detection	X		X	
ARGWC-22	Downgradient	Detection	X		X	
ARGWC-23	Downgradient	Detection	X		X	
ARAMW-1	Downgradient	Assessment	X		X	
ARAMW-2	Downgradient	Assessment	X		X	
ARAMW-7	Downgradient	Assessment	X		X	X
ARAMW-8	Downgradient	Assessment	X		X	
ARAMW-9	Downgradient	Assessment	X		X	
ARAMW-10	Downgradient	Piezometer		X	X	X
ARAMW-11	Downgradient	Piezometer		X	X	X
ARAMW-12	Downgradient	Piezometer				

Notes:
X - Indicates well sampled during event

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
Georgia Power Company - Plant Arkwright
Ash Pond 2 Dry Ash Stockpile
Macon, Bibb County, Georgia

	August 2024			February 2025		
Well ID	Top of Casing Elevation* (feet)	Depth to Water (feet)(1)	Groundwater Elevation (feet)(2)	Top of Casing Elevation** (feet)	Depth to Water (feet)(1)	Groundwater Elevation (feet)(2)
ARGWA-19	343.30	29.31	313.99	343.35	29.58	313.77
ARGWA-20	331.28	16.86	314.42	330.63	16.92	313.71
ARGWC-21	309.15	14.40	294.75	308.46	13.17	295.29
ARGWC-22	309.95	14.25	295.70	306.80	10.62	296.18
ARGWC-23	307.70	12.67	295.03	307.73	11.78	295.95
ARAMW-1	308.51	13.76	294.75	308.35	13.10	295.25
ARAMW-2	308.27	13.76	294.51	308.28	13.32	294.96
ARAMW-7	309.81	13.26	296.55	306.95	10.01	296.94
ARAMW-8	307.36	12.27	295.09	307.62	11.44	296.18
ARAMW-9	309.28	8.64	300.64	306.72	8.90	297.82
ARAMW-10(3)	--	--	--	308.49	10.94	297.55
ARAMW-11(3)	--	--	--	308.09	11.06	297.03
ARAMW-12(3)	--	--	--	309.08	61.85	247.23

Notes:

* - Reference elevation based on previous survey data collected between 2020 and 2022.

** - Reference elevation based on most current survey data collected on December 9, 2024.

(1) - Groundwater elevations were determined by measuring depth to water from the top of casing (TOC).

(2) - Groundwater elevations are feet referenced to North American Vertical Datum of 1988 (NAVD88).

(3) - Wells ARAMW-10, ARAMW-11, and ARAMW-12 were installed in November 2024

TABLE 4
GROUNDWATER FLOW VELOCITY CALCULATIONS
Georgia Power Company - Plant Arkwright
Ash Pond 2 Dry Ash Stockpile
Macon, Bibb County, Georgia

Potentiometric Map Date	Location	Groundwater Elevations in Well Pairs (h_1, h_2) (feet)		Change in Elevation (Δh) (feet)	Distance Measured (L) (feet)	Hydraulic Gradient (i) (feet/foot)	Average Hydraulic Conductivity (K) (feet/day)	Estimated Effective Porosity (n_e)	Calculated Groundwater Flow Velocity (V) (feet/day)	Calculated Groundwater Flow Velocity (V) (feet/year)
August 19, 2024	ARGWA-20 to ARGWC-21	314.42	294.75	19.67	792	0.025	0.74	0.20	0.092	34
	ARGWA-19 to ARAMW-1	313.99	294.75	19.24	907	0.021	0.77	0.20	0.082	30
February 3, 2025	ARGWA-20 to ARGWC-21	313.71	295.29	18.42	792	0.023	0.74	0.20	0.086	31
	ARGWA-19 to ARAMW-1	313.77	295.25	18.52	907	0.020	0.77	0.20	0.079	29

Notes:
1. Effective porosity of 20% was selected for the silty sands/sandy silts overburden based on a review of several sources, including Driscoll, 1986; US EPA, 1989; Freeze and Cherry, 1979.
2. Hydraulic conductivity (K) for the ARGWA-20 to ARGWC-21 well pair is the geometric mean value determined via slug testing three overburden wells in the AP-2 DAS groundwater monitoring system
3. Hydraulic conductivity (K) for the ARGWA-19 to ARAMW-1 well pair is the geometric mean value determined via slug testing three bedrock wells in the AP-2 DAS groundwater monitoring system

TABLE 5
ANALYTICAL DATA SUMMARY - GROUNDWATER, AUGUST 2024, DECEMBER 2024, FEBRUARY 2025, AND MARCH 2025
Georgia Power Company - Plant Arkwright
Ash Pond 2 Dry Ash Stockpile
Macon, Bibb County, Georgia

Sample Location		ARGWA-19		ARGWA-20			ARGWC-21		ARGWC-22	
Sample Date		08/20/2024	02/04/2025	08/20/2024	02/04/2025	02/04/2025-Diss	08/20/2024	02/04/2025	08/20/2024	02/04/2025
ANALYTE	UNITS									
APPENDIX III										
Boron	mg/L	0.0236	0.0373	0.0537	0.0827	0.0708	1.13	1.31	3.09	3.10
Calcium	mg/L	8.29	8.77	10.6	11.4	10.7	78.0	85.1	194	187
Chloride	mg/L	4.89	5.84	7.63	7.74	NA	3.18	3.29	7.25	6.87
Fluoride	mg/L	0.0679 J	0.0704 J	0.0488 J	0.0490 J	NA	0.124	0.131	0.0660 J	0.280 J
pH, Field	SU	5.93	5.86	5.83	5.71	NA	6.2	6.02	5.76	5.73
Sulfate	mg/L	7.07	8.00	16.4	16.3	NA	219	216	674	656
TDS	mg/L	91.0	78.0	113	104	NA	520	534	1180	1140
APPENDIX IV										
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200
Barium	mg/L	0.0293	0.0311 J	0.0863	0.0926 J	0.0864	0.0431	0.0492 J	0.0223	0.0282 J
Beryllium	mg/L	< 0.000200	< 0.000200	< 0.000200	0.000235 J	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Chromium	mg/L	< 0.00300	< 0.00300	0.00598 J	0.00667 J	0.00607 J	< 0.00300	< 0.00300	< 0.00300	< 0.00300
Cobalt	mg/L	< 0.000300	< 0.000300	< 0.000300	0.000334 J	< 0.000300	0.000769 J	0.000632 J	0.00279	0.00230 J
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Lithium	mg/L	0.00376 J	0.00397 J	< 0.00300	< 0.00300	< 0.00300	0.0119	0.0123 J	0.0200	0.0212 J
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	0.0000800 J
Molybdenum	mg/L	0.000375 J	0.000408 J	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.000406 J	0.000397 J
Combined Radium 226 + 228	pCi/L	2.65	1.63 U	0.969 U	2.01 U	NA	1.02 U	0.238 U	1.04 U	2.26
Selenium	mg/L	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
APPENDIX I										
Silver	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Additional Parameters										
Bicarbonate Alkalinity as CaCO3	mg/L	37.5	36.6	41.2	43.6	NA	160	158	136	136
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	< 0.725	< 0.725	< 0.725	NA	< 0.725	< 0.725	< 0.725	< 0.725
Total Alkalinity as CaCO3	mg/L	37.5	36.6	41.2	43.6	NA	160	158	136	136
Aluminum	mg/L	< 0.0193	< 0.0193	0.0748	0.746	< 0.0193	< 0.0193	0.0257 J	0.0230 J	< 0.0193
Iron	mg/L	< 0.0330	< 0.0330	0.110	0.823	NA	0.579	0.803	6.00	4.57
Iron, Dissolved	mg/L	< 0.0330	< 0.0330	< 0.0330	< 0.0330	NA	0.483	0.585	6.31	4.97
Magnesium	mg/L	3.52	3.40	5.83	5.66	5.34	39.4	39.7	80.2	78.8
Manganese	mg/L	< 0.00100	< 0.00100	0.00343 J	0.0125	NA	0.322	0.366	17.2	16.1
Manganese, Dissolved	mg/L	< 0.00100	< 0.00100	0.00164 J	0.00185 J	NA	0.307	0.315	18.0	15.2
Nitrate Nitrite	mg/L	1.74	NA	0.835	NA	NA	< 0.00700	NA	0.122	NA
Potassium	mg/L	2.03	2.07	1.51	1.57	1.46	6.12	5.97	4.45	4.47
Sodium	mg/L	9.61	12.9	11.5	12.8	11.0	20.2	22.1	26.6	25.8

Notes:

mg/L - milligrams per liter
pCi/L - picocuries per liter
SU - Standard Units
NA - Indicates not analyzed
TDS - Total dissolved solids
< - 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 5
ANALYTICAL DATA SUMMARY - GROUNDWATER, AUGUST 2024, DECEMBER 2024, FEBRUARY 2025, AND MARCH 2025
Georgia Power Company - Plant Arkwright
Ash Pond 2 Dry Ash Stockpile
Macon, Bibb County, Georgia

Sample Location		ARGWC-23		ARAMW-1		ARAMW-2		ARAMW-7			ARAMW-8	
Sample Date		08/20/2024	02/04/2025	08/20/2024	02/04/2025	08/20/2024	02/04/2025	08/20/2024	02/04/2025	03/31/2025	08/20/2024	02/04/2025
ANALYTE	UNITS											
APPENDIX III												
Boron	mg/L	0.434	0.485	1.49	1.52	1.28	1.44	2.44	2.77	2.63	0.675	0.924
Calcium	mg/L	79.6	75.2	85.4	82.7	85.2	93.4	284	311	325	79.2	88.1
Chloride	mg/L	3.68	3.55	3.27	3.33	3.24	3.33	5.13	5.33	5.32	4.54	4.32
Fluoride	mg/L	0.365	0.286	0.169	0.157	0.123	0.130	0.118 J	< 0.165	< 0.165	0.199	0.230
pH, Field	SU	6.34	6.42	6.13	6.08	6.08	6.03	5.62	5.57	5.66	6.47	6.44
Sulfate	mg/L	80.1	77.6	211	204	232	249	1010	1040	1050	109	109
TDS	mg/L	328	320	538	496	564	566	1590	1670	1270	422	405
APPENDIX IV												
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	0.00115 J
Arsenic	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	0.00392 J	0.00689 J	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200
Barium	mg/L	0.105	0.118 J	0.0389	0.0399 J	0.0560	0.0681 J	0.0277	0.0432 J	0.0410	0.112	0.115 J
Beryllium	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.000318 J	0.000325 J	0.000333 J	< 0.000200	< 0.000200
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Chromium	mg/L	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300
Cobalt	mg/L	0.000484 J	0.000489 J	< 0.000300	< 0.000300	0.00166	0.00185 J	0.0702	0.0788	0.0840	0.00277	0.00379 J
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Lithium	mg/L	0.0469	0.0428	0.00934 J	0.00952 J	0.0145	0.0172 J	0.0585	0.0636	0.0694	0.00586 J	0.00667 J
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	0.000113 J	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	0.0740	0.0548 J	0.00873	0.0127 J	0.000585 J	0.000623 J	0.000257 J	0.000321 J	0.000256 J	0.195	0.189
Combined Radium 226 + 228	pCi/L	2.10	0.551 U	2.47	1.28 U	2.98	2.83	3.47	3.05	NA	0.801 U	0.506 U
Selenium	mg/L	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
APPENDIX I												
Silver	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Additional Parameters												
Bicarbonate Alkalinity as CaCO3	mg/L	185	176	178	174	158	169	58.6	60.1	63.5	251	235
Carbonate Alkalinity as CaCO3	mg/L	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725	< 0.725
Total Alkalinity as CaCO3	mg/L	185	176	178	174	158	169	58.6	60.1	63.5	251	235
Aluminum	mg/L	< 0.0193	< 0.0193	< 0.0193	< 0.0193	< 0.0193	< 0.0193	0.0935	0.0538	0.111	0.0279 J	0.0685
Iron	mg/L	< 0.0330	< 0.0330	0.0976 J	0.0699 J	2.62	3.37	4.83	4.89	5.70	0.244	0.767
Iron, Dissolved	mg/L	< 0.0330	< 0.0330	0.0961 J	0.0657 J	1.83	3.24	4.98	4.61	5.49	< 0.0330	0.645
Magnesium	mg/L	14.7	13.2	39.2	37.1	36.2	38.4	79.7	83.2	86.7	33.7	31.5
Manganese	mg/L	0.281	0.0954	0.133	0.160	0.475	0.710	13.7	16.4	15.6	0.187	0.267
Manganese, Dissolved	mg/L	0.239	0.107	0.131	0.131	0.348	0.659	14.9	14.5	15.8	0.187	0.219
Nitrate Nitrite	mg/L	0.975	NA	< 0.00700	NA	0.0150 J	NA	< 0.00700	NA	NA	< 0.00700	NA
Potassium	mg/L	2.08	2.19	5.38	5.33	6.25	7.12	9.23	10.1	10.5	6.91	7.02
Sodium	mg/L	16.1	15.5	20.0	20.6	19.0	21.2	27.6	29.4	30.4	17.7	18.9

Notes:

mg/L - milligrams per liter
pCi/L - picocuries per liter
SU - Standard Units
NA - Indicates not analyzed
TDS - Total dissolved solids
< - 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 5
ANALYTICAL DATA SUMMARY - GROUNDWATER, AUGUST 2024, DECEMBER 2024, FEBRUARY 2025, AND MARCH 2025
Georgia Power Company - Plant Arkwright
Ash Pond 2 Dry Ash Stockpile
Macon, Bibb County, Georgia

Sample Location		ARAMW-9		ARAMW-10			ARAMW-11		
Sample Date		08/20/2024	02/04/2025	12/12/2024	02/04/2025	03/31/2025	12/12/2024	02/04/2025	03/31/2025
ANALYTE	UNITS								
APPENDIX III									
Boron	mg/L	0.0490	0.131	2.84	2.76	2.73	2.30	2.58	2.68
Calcium	mg/L	160	161	363	363	367	296	302	314
Chloride	mg/L	35.2	36.0	6.02	6.77	6.93	5.22	5.39	5.04
Fluoride	mg/L	0.889	0.956	0.114	0.330	0.147 J	< 0.0330	0.0848 J	< 0.0660
pH, Field	SU	7.95	7.88	5.84	5.82	5.84	5.46	5.45	5.42
Sulfate	mg/L	416	418	1080	1100	1070	960	1010	1000
TDS	mg/L	670	758	1790	1760	1230	1540	1560	1490
APPENDIX IV									
Antimony	mg/L	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100	< 0.00100
Arsenic	mg/L	< 0.00200	< 0.00200	0.00360 J	< 0.00200	< 0.00200	0.00314 J	< 0.00200	< 0.00200
Barium	mg/L	0.0105	0.00991 J	0.0550	0.0499 J	0.0517	0.0252	0.0241 J	0.0247
Beryllium	mg/L	< 0.000200	< 0.000200	0.000204 J	0.000231 J	0.000228 J	< 0.000200	< 0.000200	< 0.000200
Cadmium	mg/L	< 0.000300	< 0.000300	0.000327 J	< 0.000300	< 0.000300	< 0.000300	0.000508 J	0.00122
Chromium	mg/L	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300
Cobalt	mg/L	< 0.000300	< 0.000300	0.0186	0.0150 J	0.0159	0.0394	0.0259 J	0.0367
Lead	mg/L	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500	< 0.000500
Lithium	mg/L	0.00958 J	0.00951 J	0.0631	0.0568	0.0636	0.0471	0.0404	0.0511
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	0.00237	0.00267 J	0.00148	0.000925 J	0.000768 J	0.000630 J	0.000403 J	0.000497 J
Combined Radium 226 + 228	pCi/L	2.80	3.75	8.18	4.47	NA	2.91	2.70 U	NA
Selenium	mg/L	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150	< 0.00150
Thallium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600	< 0.000600
APPENDIX I									
Silver	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300
Additional Parameters									
Bicarbonate Alkalinity as CaCO3	mg/L	91.9	91.2	113	104	99.6	48.4	45.0	43.0
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	91.9	91.2	113	104	99.6	48.4	45.0	43.0
Aluminum	mg/L	0.0744	0.0879	0.0460 J	0.0218 J	0.0239 J	0.0857	0.131	0.153
Iron	mg/L	0.653	0.560	0.966	0.693	0.724	0.285	0.322	0.377
Iron, Dissolved	mg/L	0.428	0.361	0.973	0.657	0.742	0.191	0.148	0.151
Magnesium	mg/L	11.1	10.9	80.5	74.5	75.8	86.9	84.5	87.3
Manganese	mg/L	0.140	0.151	22.0	20.5	20.1	16.2	15.2	17.4
Manganese, Dissolved	mg/L	0.136	0.149	22.6	17.5	20.2	15.6	13.2	16.0
Nitrate Nitrite	mg/L	< 0.00700	NA	< 0.00700	NA	NA	< 0.00700	NA	NA
Potassium	mg/L	6.00	5.47	8.49	7.39	7.56	7.21	6.59	7.13
Sodium	mg/L	75.0	73.1	39.0	38.6	39.5	29.5	29.7	30.1

Notes:

mg/L - milligrams per liter
pCi/L - picocuries per liter
SU - Standard Units
NA - Indicates not analyzed
TDS - Total dissolved solids
< - 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
ANALYTICAL DATA SUMMARY - SURFACE WATER, AUGUST 2024 AND FEBRUARY 2025
Georgia Power Company - Plant Arkwright
Ash Pond 2 Dry Ash Stockpile
Macon, Bibb County, Georgia

Sample Location		BC-0.8a		BC-0.5.7		BC-0.5.6		BC-0.5.5		BC-BR	
Sample Date		08/12/2024	02/10/2025	08/12/2024	02/10/2025	08/12/2024	02/10/2025	08/12/2024	02/10/2025	08/12/2024	02/10/2025
ANALYTE	UNITS										
APPENDIX III											
Boron	mg/L	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050	< 0.040	< 0.050
Calcium	mg/L	10.8	8.7	11.7	8.7	12.3	9.0	12.2	9.2	11.4	9.3
Chloride	mg/L	7.6	8.5	7.5	8.5	7.6	8.4	7.6	8.4	7.6	8.4
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
pH, Field	SU	7.35	7.30	7.51	7.30	7.43	7.29	7.45	7.27	7.55	7.30
Sulfate	mg/L	3.8	4.9	8.7	5.9	7.6	6.4	7.6	6.3	7.5	6.2
TDS	mg/L	106	84.0	127	81.0	141	83.0	113	98.0	130	83.0
APPENDIX IV											
Cobalt	mg/L	< 0.0050	< 0.0010	< 0.0050	< 0.0010	< 0.0050	< 0.0010	< 0.0050	< 0.0010	< 0.0050	< 0.0010
Lithium	mg/L	< 0.030	< 0.0025	< 0.030	< 0.0025	< 0.030	< 0.0025	< 0.030	< 0.0025	< 0.030	< 0.0025
Molybdenum	mg/L	< 0.010	< 0.0010	< 0.010	< 0.0010	< 0.010	< 0.0010	< 0.010	< 0.0010	< 0.010	< 0.0010
Additional Parameters											
Alkalinity Total as CaCO3	mg/L	55.9	40.8	58.1	40.6	57.2	40.7	56.3	40.8	56.9	40.8
Bicarbonate Alkalinity as CaCO3	mg/L	55.9	40.8	58.1	40.6	57.2	40.7	56.3	40.8	56.9	40.8
Magnesium	mg/L	4.8	4.0	5.0	4.0	5.2	4.1	5.2	4.2	4.9	4.2
Potassium	mg/L	2.4	< 5.0	2.3	< 5.0	2.5	< 5.0	2.4	< 5.0	2.3	< 5.0
Sodium	mg/L	8.8	9.1	8.5	8.8	8.9	8.9	9.0	9.0	8.4	9.2

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.

TABLE 7
SUMMARY OF GROUNDWATER PROTECTION STANDARDS
Georgia Power Company - Plant Arkwright
Ash Pond 2 Dry Ash Stockpile
Macon, Bibb County, Georgia

PLANT ARKWRIGHT AP-2 DAS GWPS							
Constituent Name	**UNITS**	**MCL**	**CCR-Rule Specified[1]**	**Site Specific Background Limit[2] August 2024**	**State GWPS August 2024**	**Site Specific Background Limit[2] February 2025**	**State GWPS February 2025**
Antimony	mg/L	0.006		0.003	0.006	0.003	0.006
Arsenic	mg/L	0.01		0.005	0.01	0.005	0.01
Barium	mg/L	2		0.11	2	0.11	2
Beryllium	mg/L	0.004		0.0005	0.004	0.0005	0.004
Cadmium	mg/L	0.005		0.001	0.005	0.001	0.005
Chromium	mg/L	0.1		0.01	0.1	0.01	0.1
Cobalt	mg/L	n/a	0.006	0.001	0.006	0.001	0.006
Combined Radium	pCi/L	5		2.65	5	2.65	5
Fluoride	mg/L	4		0.15	4	0.15	4
Lead	mg/L	n/a	0.015	0.002	0.015	0.002	0.015
Lithium	mg/L	n/a	0.04	0.013	0.04	0.013	0.04
Mercury	mg/L	0.002		0.0002	0.002	0.0002	0.002
Molybdenum	mg/L	n/a	0.1	0.001	0.1	0.001	0.1
Selenium	mg/L	0.05		0.005	0.05	0.005	0.05
Silver	mg/L	n/a		0.001	0.001	0.001	0.001
Thallium	mg/L	0.002		0.002	0.002	0.002	0.002

Notes:

mg/L - milligrams per liter

pCi/L - picoCuries per liter

n/a - constituent does not have an established MCL

MCL - Maximum Contaminant Level

GWPS - Groundwater Protection Standard

CCR - Coal Combustion Residuals

GA EPD = Georgia Environmental Protection Division

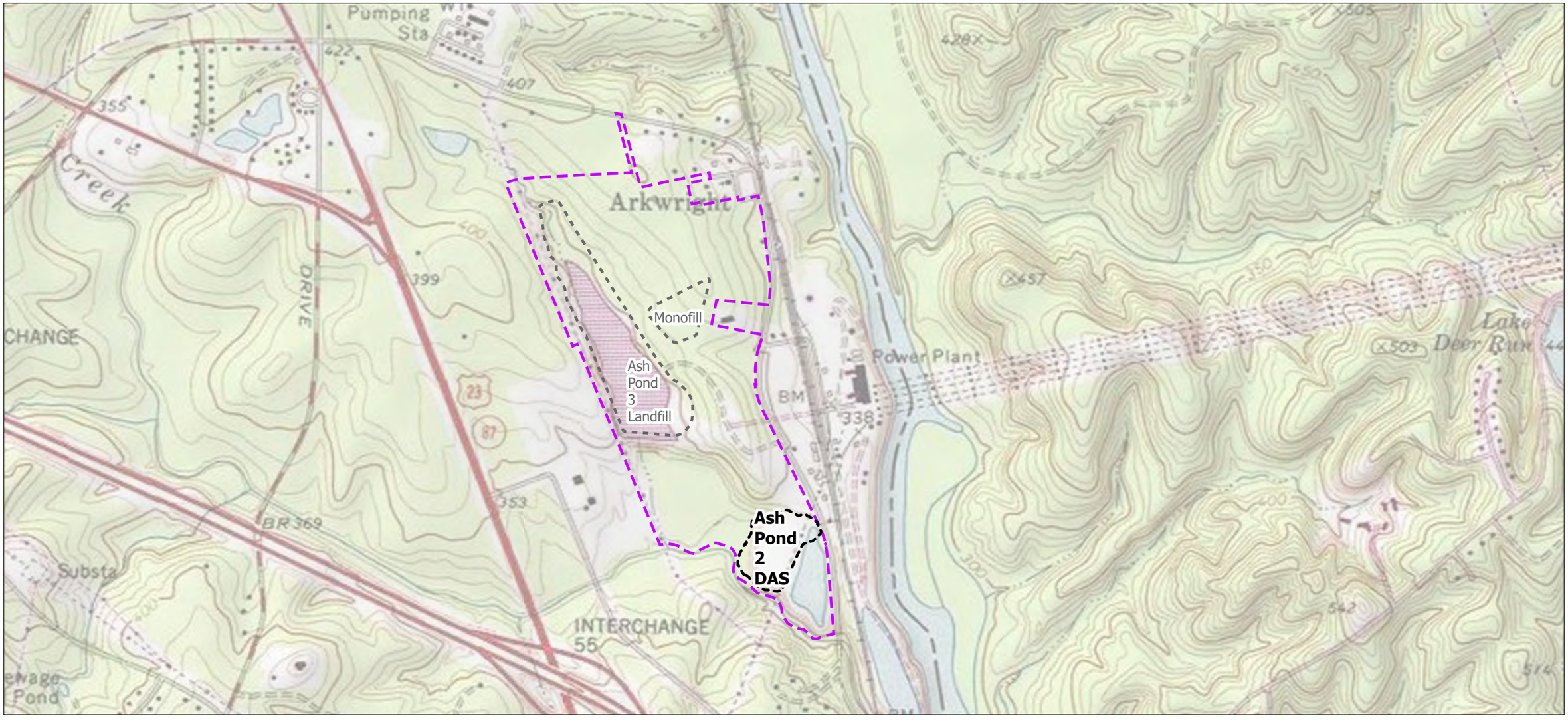
US EPA = United Stated Environmental Protection Agency

CFR = Code of Federal Regulations

[1] GA EPD incorporated the US EPA GWPS into the current GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a) on February 22, 2022.

[2] The background limits are evaluated when determining the GWPS under 40 CFR § 257.95(h) and 391-3-4-.10(6)(a).

FIGURES



Notes
1. Coordinate System: NAD 1983 StatePlane Georgia West FIPS 1002 Feet
2. Data Sources: Tax Parcel and AP-2 Landfill Boundary provided by Southern Company Services and Wood Environment & Infrastructure Solutions
3. Background: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Copyright:© 2013 National Geographic Society, i-cubed

Legend

- Approximate Property Boundary
- Ash Pond 2 Dry Ash Stockpile (DAS) (approximate location)
- Ash Pond 3 Landfill and Monofill (approximate location)

0 — 1,000 — 2,000 Feet

(At original document size of 11x17)
1:12,000

N

Stantec

Georgia Power

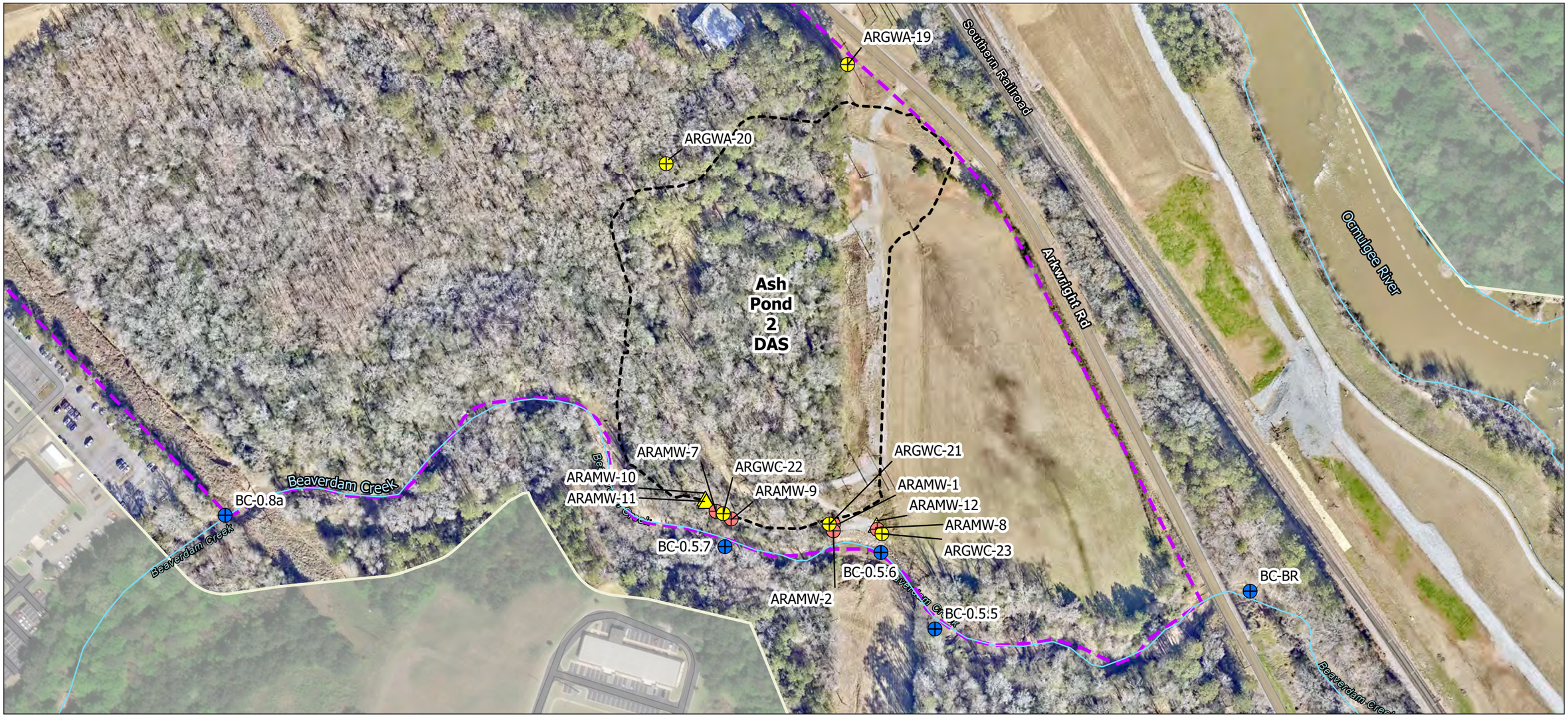
Project Location
Macon, Georgia

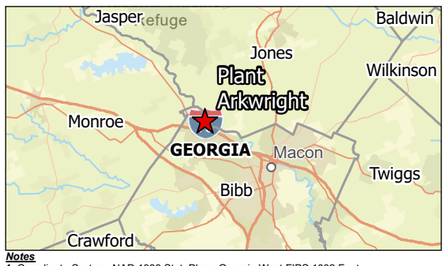
Prepared by DMB on 5/8/2025
TR by AS on 5/8/2025
IR by JK on 5/8/2025

Client/Project 175569434
Georgia Power
2025 Annual Groundwater Monitoring and Corrective Action Report
Plant Arkwright Ash Pond 2 Dry Ash Stockpile

Figure No.
1

Title
Site Location Map





Notes
1. Coordinate System: NAD 1983 StatePlane Georgia West FIPS 1002 Feet
2. Data Sources: Ash Pond Boundaries, Surface Water Samples, Monitoring Wells, Piezometers, Property Boundary, and Beaverdam Creek locations provided by Southern Company Services and Wood Environment & Infrastructure Solutions
3. Background: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User CommunityPlant imagery provided by client and is dated 1/2/2025.

Legend

- Detection Monitoring Well
- Assessment Monitoring Well
- Piezometer Installed November 2024
- Surface Water Sampling Location
- Beaverdam Creek/Ocmulgee River (Approximate)
- Approximate Property Boundary
- Ash Pond 2 Dry Ash Stockpile (DAS) (approximate location)
- Limit of Client Imagery (dated 1/2/2025)

Piezometers ARAMW-10, ARAMW-11 and ARAMW-12 were installed in November 2024.

0 200 400 Feet

(At original document size of 11x17)
1:2,400

N

Stantec

Georgia Power

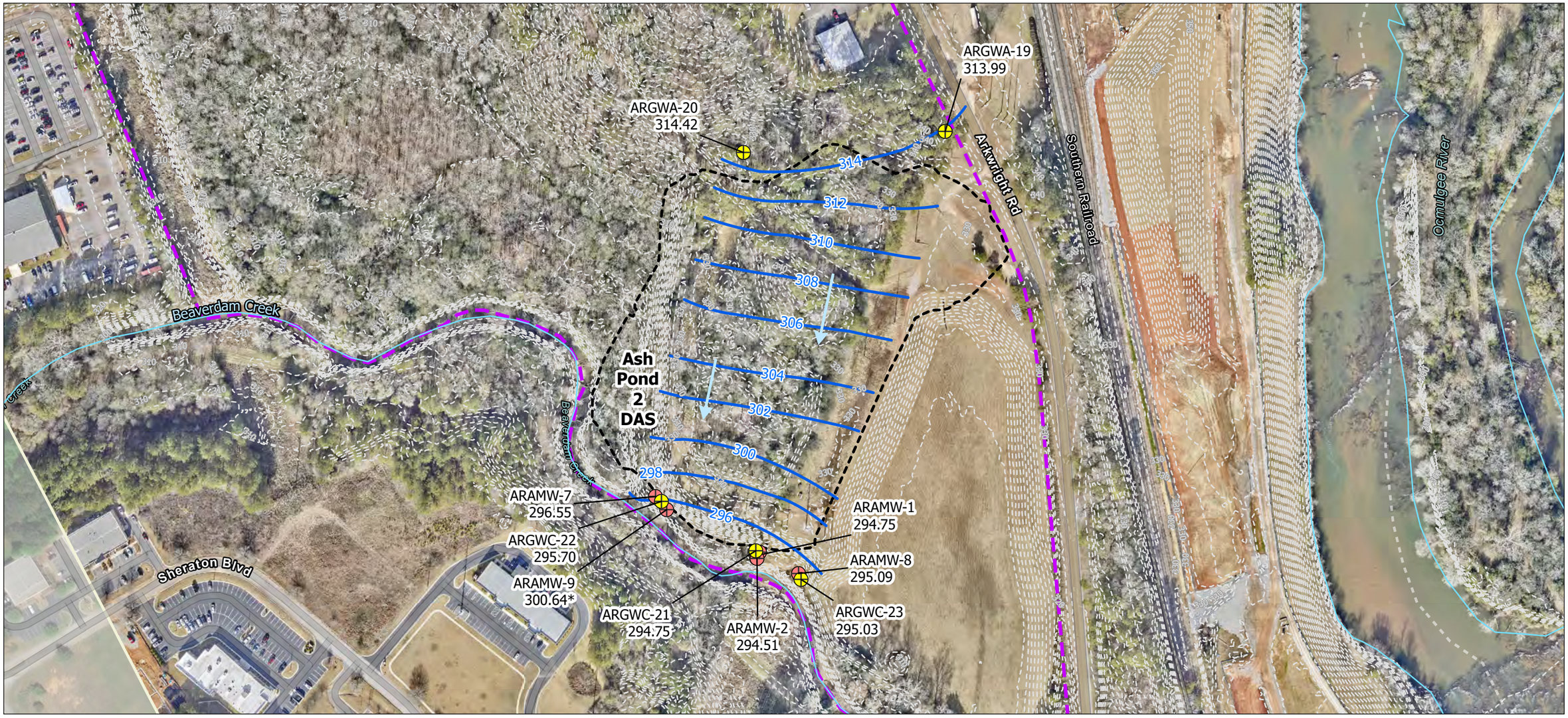
Project Location
Macon, Georgia

Prepared by DMB on 5/8/2025
TR by AS on 5/8/2025
IR by JK on 5/8/2025

Client/Project 175569434
Georgia Power
2025 Annual Groundwater Monitoring and Corrective Action Report
Plant Arkwright Ash Pond 2 Dry Ash Stockpile

Figure No.
2

Title
Detection Monitoring Network Well, Assessment Monitoring Well, Piezometer, and Sampling Locations Map



Notes

1. Coordinate System: NAD 1983 StatePlane Georgia West FIPS 1002 Feet

2. Data Sources: Ash Pond Boundaries, Monitoring Wells, Property Boundary, Topography, and Beaverdam Creek provided by Southern Company Services and Wood Environment & Infrastructure Solutions; Contours, Flow Arrow, and Ocmulgee River provided by Stantec

3. Background: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS, Esri Community Maps Contributors, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS. Plant imagery provided by client and is dated 1/22/2024.

Legend

- Detection Monitoring Well
- Assessment Monitoring Well
- Interpreted Groundwater Flow Direction
- Potentiometric Surface Contour (feet (ft) NAVD88)
- Beaverdam Creek/Ocmulgee River (Approximate)
- Topographic Contour 2024 (2 ft interval)
- Approximate Property Boundary
- Ash Pond 2 Dry Ash Stockpile (DAS) (approximate location)
- Limit of Client Imagery (dated 1/22/2024)

294.75 Groundwater Elevation (ft NAVD88)
An "*" indicates groundwater elevation for ARAMW-9 was not used in contouring.
NAVD88 - North American Vertical Datum of 1988

KATIE T. ROSS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 1776

0 200 400 Feet
(At original document size of 11x17)
1:2,400

N

Stantec

Georgia Power

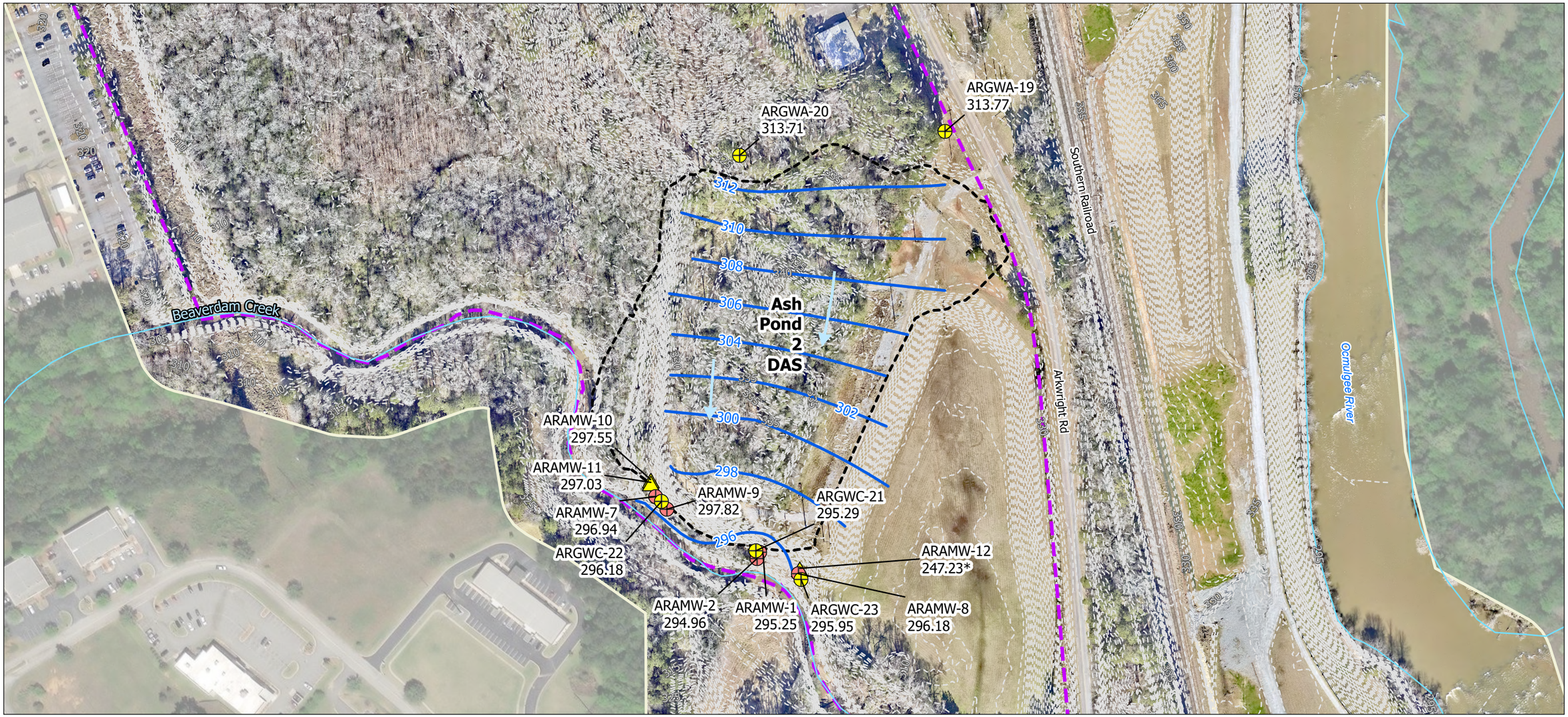
Project Location
Macon, Georgia

Prepared by DMB on 2/10/2025
TR by CS on 2/10/2025
IR by JK on 2/10/2025

Client/Project 175569434
Georgia Power
2025 Annual Groundwater Monitoring and Corrective Action Report
Plant Arkwright Ash Pond 2 Dry Ash Stockpile

Figure No.
3

Title
Potentiometric Surface Contour Map
Ash Pond 2 DAS – August 19, 2024



Notes

1. Coordinate System: NAD 1983 StatePlane Georgia West FIPS 1002 Feet
2. Data Sources: Ash Pond Boundaries, Monitoring Wells, Property Boundary, Topography, and Beaverdam Creek provided by Southern Company Services and Wood Environment & Infrastructure Solutions; Contours, Flow Arrow, and Ocmulgee River provided by Stantec
3. Background: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community. Plant imagery provided by client and is dated 1/2/2025.

Legend

- Detection Monitoring Well
- Assessment Monitoring Well
- Piezometer Installed November 2024
- Interpreted Groundwater Flow Direction
- Potentiometric Surface Contour (feet (ft) NAVD88)
- Beaverdam Creek/Ocmulgee River (Approximate)
- Topographic Contour Dec 2024 (1 ft interval)
- Approximate Property Boundary
- Ash Pond 2 Dry Ash Stockpile (DAS) (approximate location)
- Limit of Client Imagery (dated 1/2/2025)

294.96 Groundwater Elevation (ft NAVD88)
An "*" indicates groundwater elevation for ARAMW-12 was not used in contouring.
NAVD88 - North American Vertical Datum of 1988

KATIE T. ROSS
GEORGIA REGISTERED PROFESSIONAL GEOLOGIST
No. 1776

0 200 400 Feet
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1:2,400

N

Stantec

Georgia Power

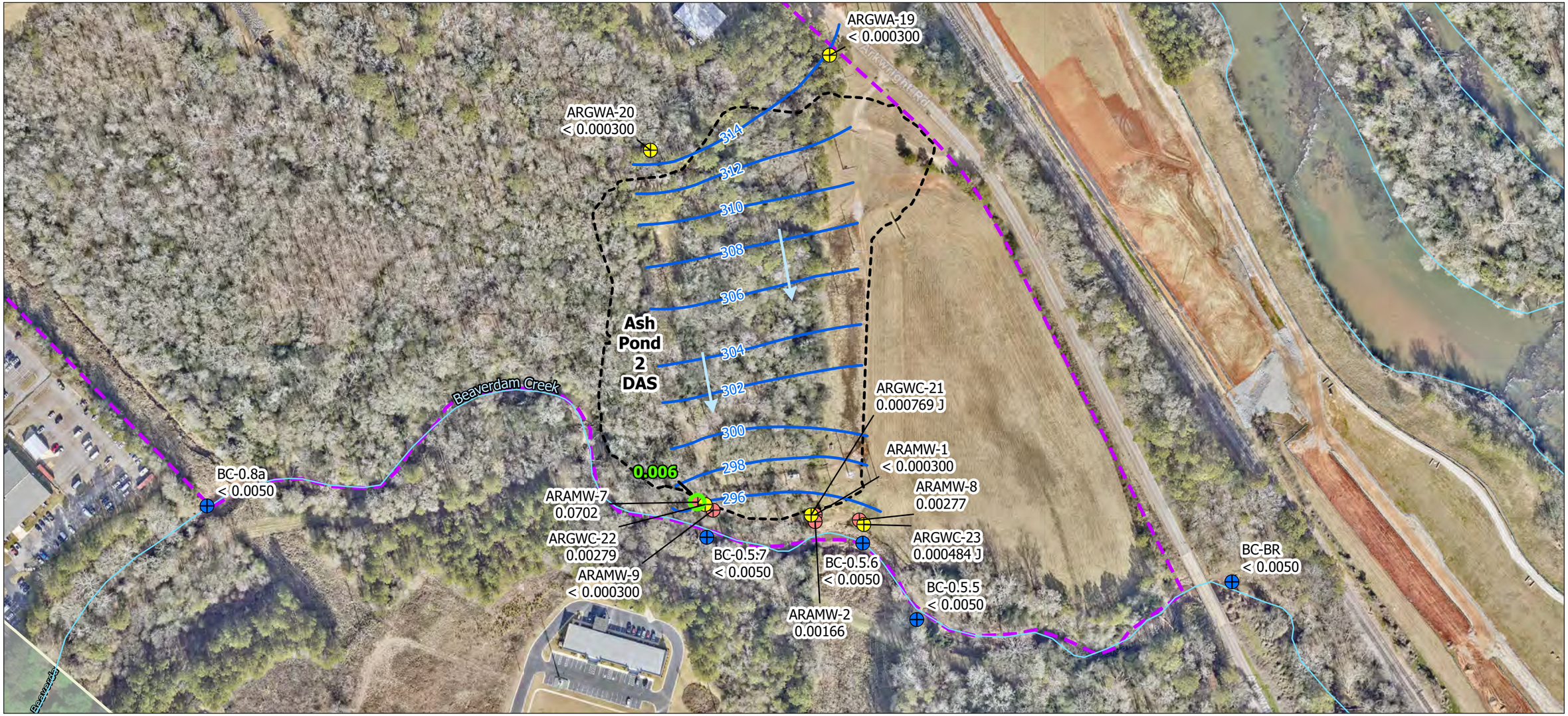
Project Location
Macon, Georgia

Prepared by DMB on 6/5/2025
TR by AS on 6/5/2025
IR by JK on 6/5/2025

Client/Project 175569434
Georgia Power
2025 Annual Groundwater Monitoring and Corrective Action Report
Plant Arkwright Ash Pond 2 Dry Ash Stockpile

Figure No.
4

Title
Potentiometric Surface Contour Map
Ash Pond 2 DAS – February 3, 2025



Notes
1. Coordinate System: NAD 1983 StatePlane Georgia West FIPS 1002 Feet
2. Data Sources: Ash Pond Boundaries, Monitoring Wells, Property Boundary, Topography, and Beaverdam Creek provided by Southern Company Services and Wood Environment & Infrastructure Solutions; Contours, Flow Arrow, and Ocmulgee River provided by Stantec
3. Background: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS, Esri Community Maps Contributors, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS. Plant imagery provided by client and is dated 1/22/2024.

Legend
- Detection Monitoring Well
- Assessment Monitoring Well
- Surface Water Sampling Location
- Cobalt Concentration Contour Aug 2024 (mg/L)
- Potentiometric Surface Contour (feet (ft) NAVD88)
- Interpreted Groundwater Flow Direction
- Beaverdam Creek/Ocmulgee River (Approximate)
- Approximate Property Boundary
- Ash Pond 2 Dry Ash Stockpile (DAS) (approximate location)
- Limit of Client Imagery (dated 1/22/2024)

0.0702 Cobalt Concentration milligrams per Liter (mg/L)

Isoconcentration Notes:
Cobalt concentration data from groundwater and surface water samples collected during the August 2024 monitoring event.

J indicates the constituent was detected between the analytical method detection limit and the laboratory reporting limit. The value followed by J is qualified by the laboratory as estimated.

GWPS - Groundwater Protection Standard

mg/L - milligrams per liter

Analyte	Units	GWPS
Cobalt	mg/L	0.006

0 200 400 Feet
(At original document size of 11x17)
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N

Stantec

Georgia Power

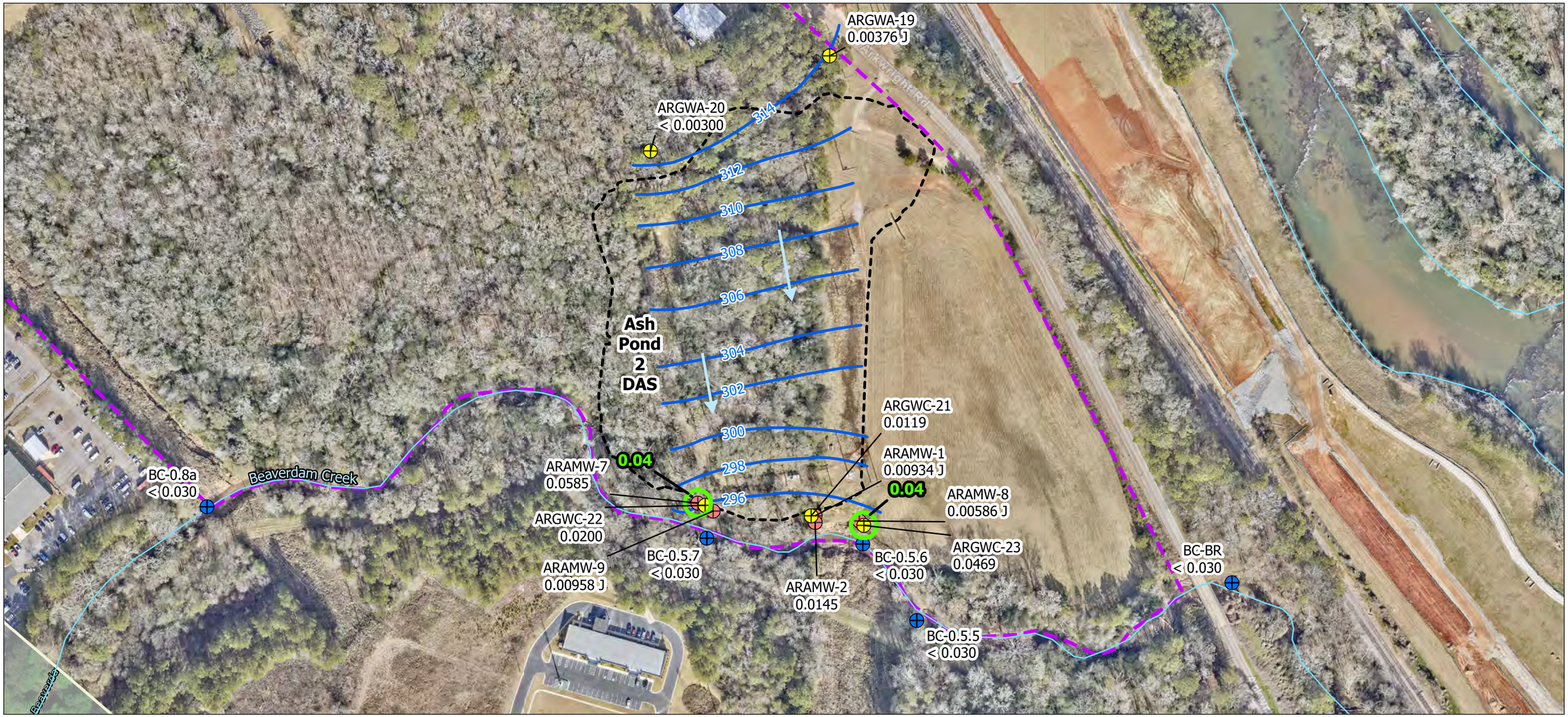
Project Location
Macon, Georgia

Prepared by DMB on 2/10/2025
TR by RM on 2/10/2025
IR by JK on 2/10/2025

Client/Project 175569434
Georgia Power
2025 Annual Groundwater Monitoring and Corrective Action Report
Plant Arkwright Ash Pond 2 Dry Ash Stockpile

Figure No.
5

Title
Isoconcentration Map for Cobalt AP-2 DAS – August 2024



Notes
1. Coordinate System: NAD 1983 StatePlane Georgia West FIPS 1002 Feet
2. Data Sources: Ash Pond Boundaries, Monitoring Wells, Property Boundary, Topography, and Beaverdam Creek provided by Southern Company Services and Wood Environment & Infrastructure Solutions; Contours, Flow Arrow, and Ocmulgee River provided by Stantec
3. Background: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS, Esri Community Maps Contributors, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS. Plant imagery provided by client and is dated 1/22/2024.

Legend

- Detection Monitoring Well
- Assessment Monitoring Well
- Surface Water Sampling Location
- Lithium Concentration Contour Aug 2024 (mg/L)
- Potentiometric Surface Contour (feet (ft) NAVD88)
- Interpreted Groundwater Flow Direction
- Beaverdam Creek/Ocmulgee River (Approximate)
- Approximate Property Boundary
- Ash Pond 2 Dry Ash Stockpile (DAS) (approximate location)
- Limit of Client Imagery (dated 1/22/2024)

0.00934 (J) Lithium Concentration milligrams per Liter (mg/L)

Isoconcentration Notes:
Lithium concentration data from groundwater and surface water samples collected during the August 2024 monitoring event.

J indicates the constituent was detected between the analytical method detection limit and the laboratory reporting limit. The value followed by J is qualified by the laboratory as estimated.

GWPS - Groundwater Protection Standard

mg/L - milligrams per liter

Analyte	Units	GWPS
Lithium	mg/L	0.04

0 200 400 Feet
(At original document size of 11x17)
1:2,400

N

Stantec

Georgia Power

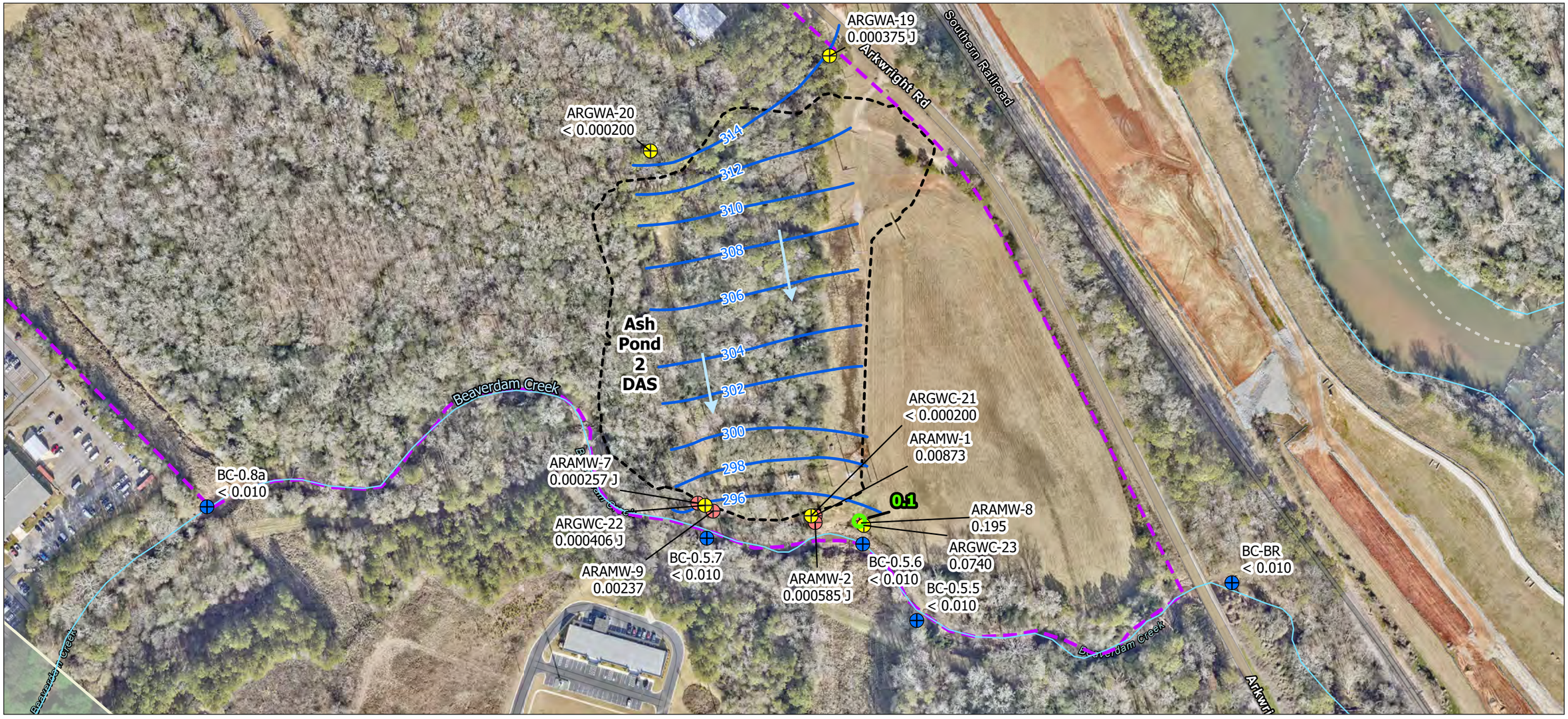
Project Location
Macon, Georgia

Prepared by DMB on 2/10/2025
TR by RM on 2/10/2025
IR by JK on 2/10/2025

Client/Project 175569434
Georgia Power
2025 Annual Groundwater Monitoring and Corrective Action Report
Plant Arkwright Ash Pond 2 Dry Ash Stockpile

Figure No.
6

Title
Isoconcentration Map for Lithium AP-2 DAS – August 2024



Notes

1. Coordinate System: NAD 1983 StatePlane Georgia West FIPS 1002 Feet
2. Data Sources: Ash Pond Boundaries, Monitoring Wells, Property Boundary, Topography, and Beaverdam Creek provided by Southern Company Services and Wood Environment & Infrastructure Solutions; Contours, Flow Arrow, and Ocmulgee River provided by Stantec
3. Background: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri, TomTom, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, USFWS, Esri Community Maps Contributors, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS. Plant imagery provided by client and is dated 1/22/2024.

Legend

- Detection Monitoring Well
- Assessment Monitoring Well
- Surface Water Sampling Location
- Molybdemum Concentration Contour Aug 2024 (mg/L)
- Potentiometric Surface Contour (feet (ft) NAVD88)
- Interpreted Groundwater Flow Direction
- Beaverdam Creek/Ocmulgee River (Approximate)
- Approximate Property Boundary
- Ash Pond 2 Dry Ash Stockpile (DAS) (approximate location)
- Limit of Client Imagery (dated 1/22/2024)

0.00873 (J) Molybdenum Concentration milligrams per Liter (mg/L)

Isoconcentration Notes:

Molybdenum concentration data from groundwater and surface water samples collected during the August 2024 monitoring event.

J indicates the constituent was detected between the analytical method detection limit and the laboratory reporting limit. The value followed by J is qualified by the laboratory as estimated.

GWPS - Groundwater Protection Standard

mg/L - milligrams per liter

Analyte	Units	GWPS
Molybdenum	mg/L	0.1

0 200 400 Feet

(At original document size of 11x17)
1:2,400

N

Stantec

Georgia Power

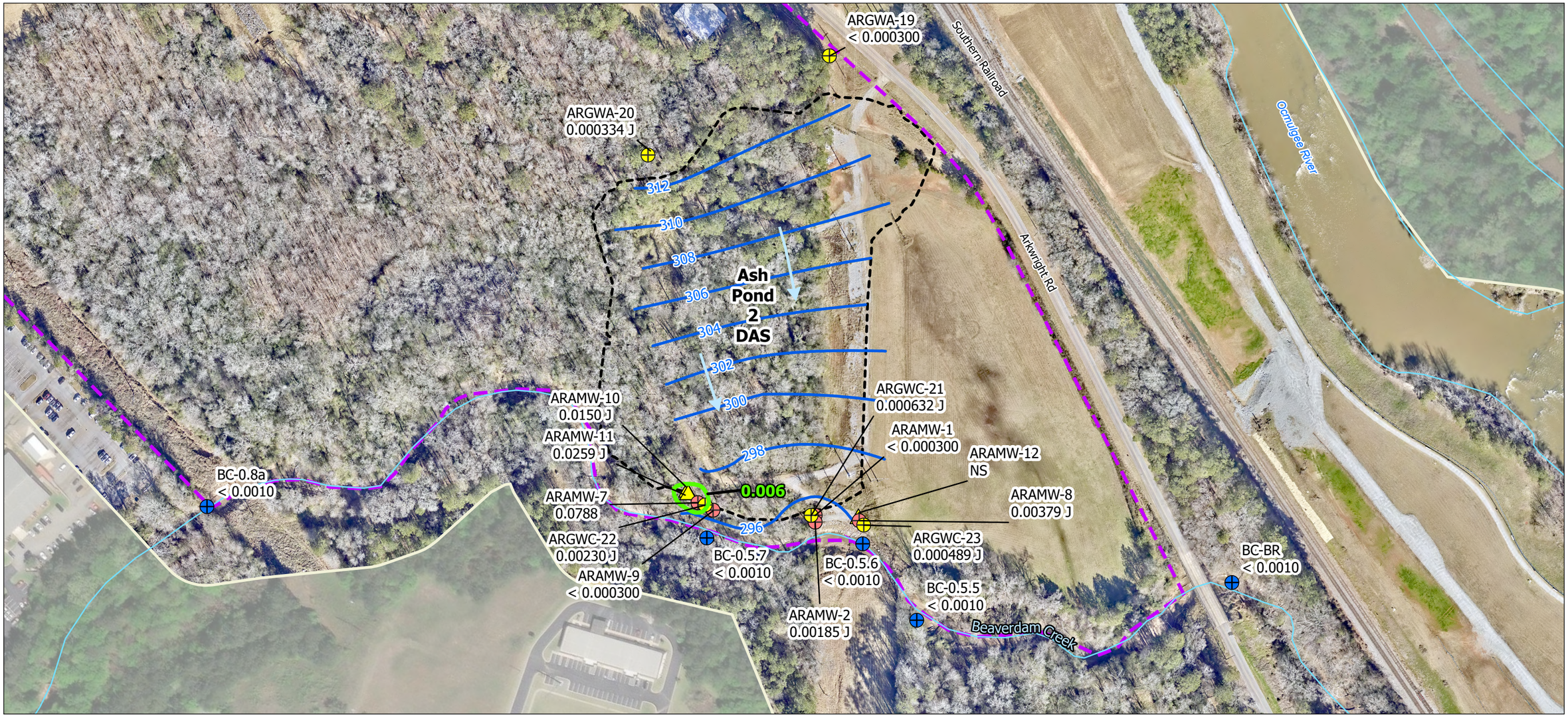
Project Location
Macon, Georgia

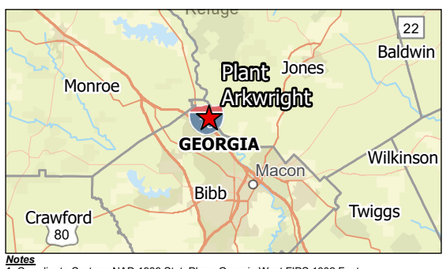
Prepared by DMB on 2/10/2025
TR by RM on 2/10/2025
IR by JK on 2/10/2025

Client/Project 175569434
Georgia Power
2025 Annual Groundwater Monitoring and Corrective Action Report
Plant Arkwright Ash Pond 2 Dry Ash Stockpile

Figure No.
7

Title
Isoconcentration Map for Molybdenum AP-2 DAS – August 2024





Notes
1. Coordinate System: NAD 1983 StatePlane Georgia West FIPS 1002 Feet
2. Data Sources: Ash Pond Boundaries, Monitoring Wells, Property Boundary, Topography, and Beaverdam Creek provided by Southern Company Services and Wood Environment & Infrastructure Solutions; Contours, Flow Arrow, and Ocmulgee River provided by Stantec
3. Background: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community. Plant imagery provided by client and is dated 1/2/2025.

Legend
- Detection Monitoring Well
- Assessment Monitoring Well
- Piezometer Installed November 2024
- Surface Water Sampling Location
- Cobalt Concentration Contour Feb 2025 (mg/L)
- Interpreted Groundwater Flow Direction
- Potentiometric Surface Contour (feet (ft) NAVD88)
- Beaverdam Creek/Ocmulgee River (Approximate)
- Approximate Property Boundary
- Ash Pond 2 Dry Ash Stockpile (DAS) (approximate location)
- Limit of Client Imagery (dated 1/2/2025)
- 0.0788 Cobalt Concentration milligrams per Liter (mg/L)

Isoconcentration Notes:
Cobalt concentration data from groundwater and surface water samples collected during the February 2025 monitoring event.

J indicates the constituent was detected between the analytical method detection limit and the laboratory reporting limit. The value followed by J is qualified by the laboratory as estimated.

GWPS - Groundwater Protection Standard
mg/L - milligrams per liter
NS - Not Sampled

Analyte	Units	GWPS
Cobalt	mg/L	0.006

0 200 400 Feet
(At original document size of 11x17)
1:2,400

N

Stantec

Georgia Power

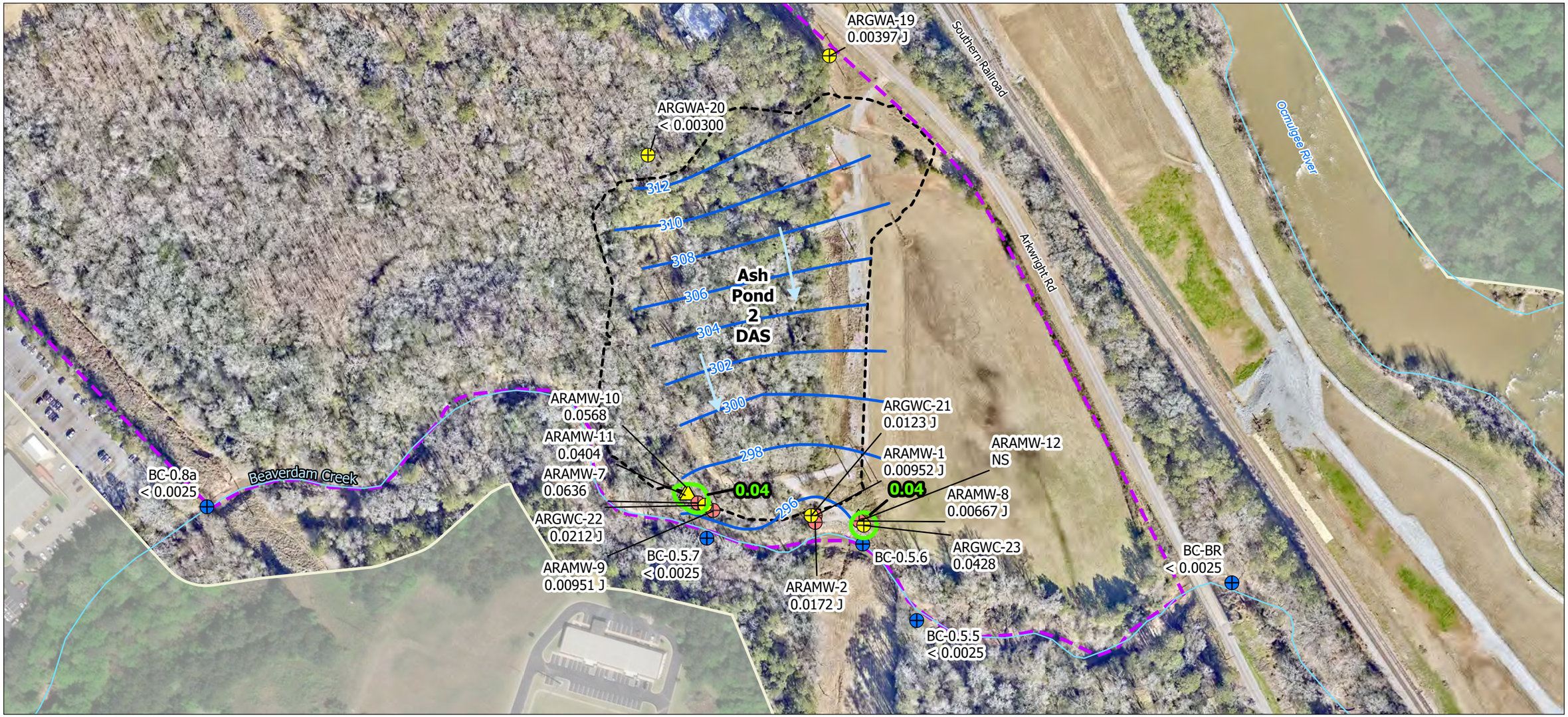
Project Location
Macon, Georgia

Prepared by DMB on 6/4/2025
TR by AS on 6/4/2025
IR by JK on 6/4/2025

Client/Project
175569434
Georgia Power
2025 Annual Groundwater Monitoring and Corrective Action Report
Plant Arkwright Ash Pond 2 Dry Ash Stockpile

Figure No.
8

Title
Isoconcentration Map for Cobalt AP-2 DAS – February 2025



Notes
1. Coordinate System: NAD 1983 StatePlane Georgia West FIPS 1002 Feet
2. Data Sources: Ash Pond Boundaries, Monitoring Wells, Property Boundary, Topography, and Beaverdam Creek provided by Southern Company Services and Wood Environment & Infrastructure Solutions; Contours, Flow Arrow, and Ocmulgee River provided by Stantec
3. Background: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community. Plant imagery provided by client and is dated 1/2/2025.

Legend
- Detection Monitoring Well
- Assessment Monitoring Well
- Piezometer Installed November 2024
- Surface Water Sampling Location
- Lithium Concentration Contour Feb 2025 (mg/L)
- Interpreted Groundwater Flow Direction
- Potentiometric Surface Contour (feet (ft) NAVD88)
- Beaverdam Creek/Ocmulgee River (Approximate)
- Approximate Property Boundary
- Ash Pond 2 Dry Ash Stockpile (DAS) (approximate location)
- Limit of Client Imagery (dated 1/2/2025)

0.00951 (J) Lithium Concentration milligrams per Liter (mg/L)

Isoconcentration Notes:
Lithium concentration data from groundwater and surface water samples collected during the Febrary 2025 monitoring event.

J indicates the constituent was detected between the analytical method detection limit and the laboratory reporting limit. The value followed by J is qualified by the laboratory as estimated.

GWPS - Groundwater Protection Standard
mg/L - milligrams per liter
NS - Not Sampled

Analyte	Units	GWPS
Lithium	mg/L	0.04

0 200 400 Feet
(At original document size of 11x17)
1:2,400

N

Stantec

Georgia Power

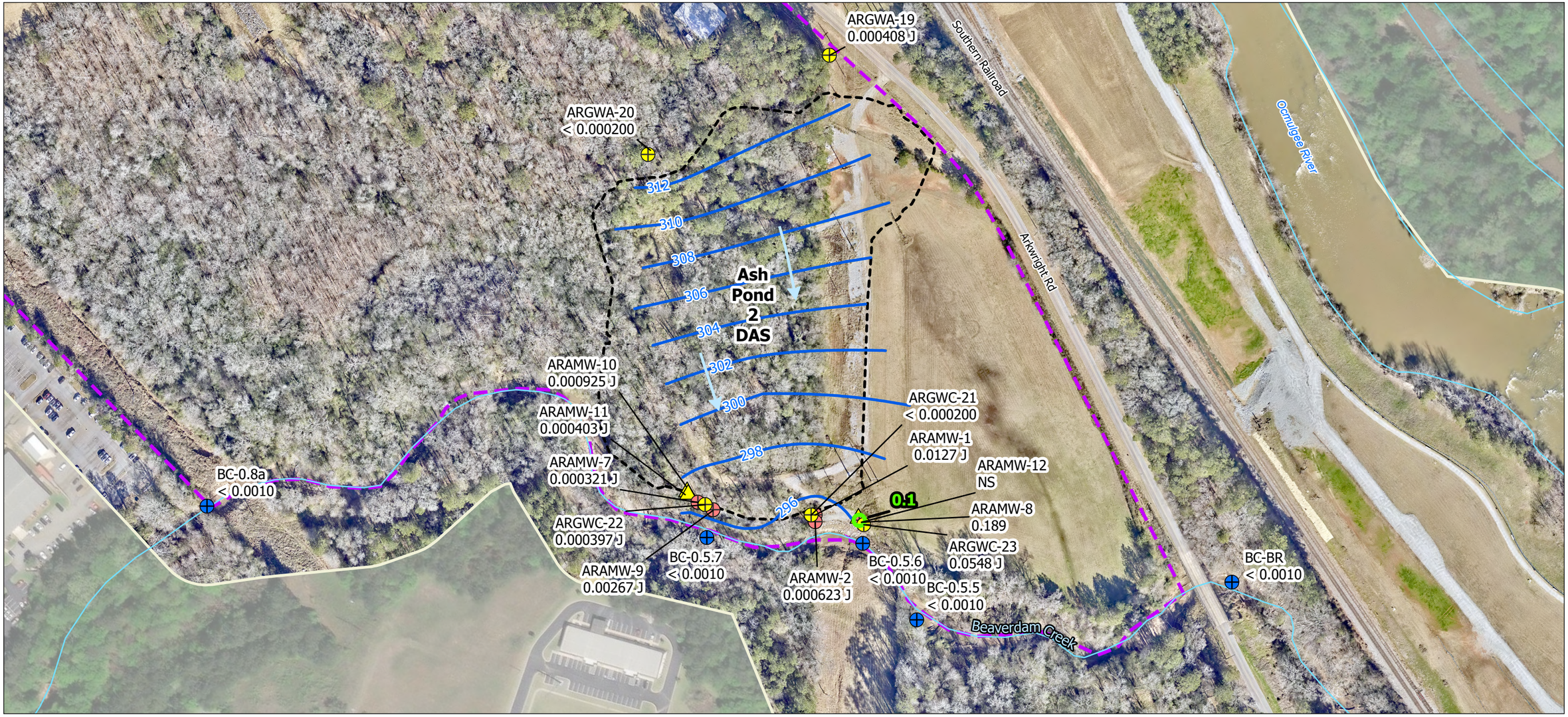
Project Location
Macon, Georgia

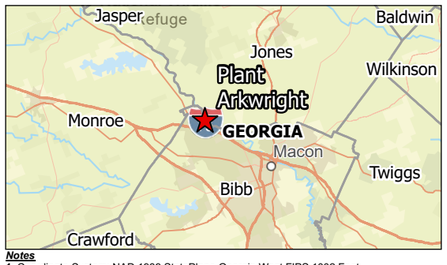
Prepared by DMB on 5/27/2025
TR by AS on 5/27/2025
IR by JK on 5/27/2025

Client/Project 175569434
Georgia Power
2025 Annual Groundwater Monitoring and Corrective Action Report
Plant Arkwright Ash Pond 2 Dry Ash Stockpile

Figure No.
9

Title
Isoconcentration Map for Lithium AP-2 DAS – February 2025





Notes
1. Coordinate System: NAD 1983 StatePlane Georgia West FIPS 1002 Feet
2. Data Sources: Ash Pond Boundaries, Monitoring Wells, Property Boundary, Topography, and Beaverdam Creek provided by Southern Company Services and Wood Environment & Infrastructure Solutions; Contours, Flow Arrow, and Ocmulgee River provided by Stantec
3. Background: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community. Plant imagery provided by client and is dated 1/2/2025.

Legend
- Detection Monitoring Well
- Assessment Monitoring Well
- Piezometer Installed November 2024
- Surface Water Sampling Location
- Molybdemum Concentration Contour Feb 2025 (mg/L)
- Interpreted Groundwater Flow Direction
- Potentiometric Surface Contour (feet (ft) NAVD88)
- Beaverdam Creek/Ocmulgee River (Approximate)
- Approximate Property Boundary
- Ash Pond 2 Dry Ash Stockpile (DAS) (approximate location)
- Limit of Client Imagery (dated 1/2/2025)

0.00267 J Molybdenum Concentration milligrams per Liter (mg/L)

Isoconcentration Notes:
Molybdenum concentration data from groundwater and surface water samples collected during the February 2025 monitoring event.

J indicates the constituent was detected between the analytical method detection limit and the laboratory reporting limit. The value followed by J is qualified by the laboratory as estimated.

GWPS - Groundwater Protection Standard
mg/L - milligrams per liter
NS - Not Sampled

Analyte	Units	GWPS
Molybdenum	mg/L	0.1

0 200 400 Feet
(At original document size of 11x17)
1:2,400

N

Stantec

Georgia Power

Project Location
Macon, Georgia

Prepared by DMB on 6/3/2025
TR by AS on 6/3/2025
IR by JK on 6/3/2025

Client/Project 175569434
Georgia Power
2025 Annual Groundwater Monitoring and Corrective Action Report
Plant Arkwright Ash Pond 2 Dry Ash Stockpile

Figure No.
10

Title
Isoconcentration Map for Molybdenum AP-2 DAS – February 2025

Appendix A
Well Inspections

Plant Arkwright Ash Pond 2 Well Inspection Form
August 19, 2024

	Location/Identification				Protective Casing				
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)	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
AP-2									
ARGWA-19	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARGWA-20	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARGWC-21	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARGWC-22	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARGWC-23	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARAMW-1	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARAMW-2	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARAMW-7	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARAMW-8	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARAMW-9	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

Completed by ZL/JB 8/19/24
Checked by AS 8/22/24

Plant Arkwright Ash Pond 2 Well Inspection Form
August 19, 2024

Well ID:	Surface Pad			Internal Casing			Corrective actions as needed, by date:
	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	
AP-2							
ARGWA-19	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARGWA-20	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARGWC-21	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARGWC-22	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARGWC-23	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARAMW-1	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARAMW-2	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARAMW-7	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARAMW-8	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARAMW-9	Yes	Yes	Yes	Yes	Yes	Yes	NA

Plant Arkwright Ash Pond 2 Well Inspection Form
February 3, 2025

	Location/Identification				Protective Casing				
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)	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
AP-2									
ARGWA-19	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARGWA-20	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARGWC-21	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARGWC-22	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARGWC-23	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARAMW-1	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARAMW-2	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARAMW-7	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARAMW-8	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARAMW-9	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARAMW-10	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARAMW-11	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
ARAMW-12	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

Completed by A.S. 2/3/2025
Checked by JB 2/27/2025

Plant Arkwright Ash Pond 2 Well Inspection Form
February 3, 2025

Well ID:	Surface Pad			Internal Casing			Corrective actions as needed, by date:
	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	
AP-2							
ARGWA-19	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARGWA-20	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARGWC-21	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARGWC-22	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARGWC-23	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARAMW-1	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARAMW-2	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARAMW-7	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARAMW-8	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARAMW-9	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARAMW-10	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARAMW-11	Yes	Yes	Yes	Yes	Yes	Yes	NA
ARAMW-12	Yes	Yes	Yes	Yes	Yes	Yes	NA

Appendix B
Field Sampling Data and Analytical Data Reports

B.1 Well Redevelopment Logs

Low-Flow Test Report:

Test Date / Time: 8/14/2024 8:49:39 AM
Project: Arkwright AP-2 development
Operator Name: Zach Levy

Location Name: Arkwright, AP-2, ARAMW-1 **Latitude: 32.91276931000096** **Longitude: -83.69873045999931** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.4 ft** **Total Depth: 47.4 ft** **Initial Depth to Water: 13.74 ft**	**Pump Type: Reclaimer pump** **Tubing Type: LDPE** **Pump Intake From TOC: 45.28 ft** **Estimated Total Volume Pumped: 84087.5 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 450 ml/min** **Final Draw Down: 0.75 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 968202**

Test Notes:
Redevelopment by over-pumping. Pump was placed at the bottom of the screen then pump was moved to top of screen, followed by the screen mid point.and pumped until stability was achieved.5 buckets pumped plus 2 gallons

Weather Conditions:
Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
8/14/2024 8:49 AM	00:00	6.14 pH	22.30 °C	643.39 µS/cm	1.77 mg/L	8.79 NTU	116.2 mV	14.55 ft	750.00 ml/min
8/14/2024 8:59 AM	10:00	6.12 pH	19.94 °C	732.02 µS/cm	1.03 mg/L	5.55 NTU	97.0 mV	14.45 ft	750.00 ml/min
8/14/2024 9:09 AM	20:00	6.12 pH	19.81 °C	735.36 µS/cm	0.93 mg/L	13.50 NTU	98.3 mV	14.75 ft	750.00 ml/min
8/14/2024 9:19 AM	30:00	6.11 pH	19.98 °C	736.00 µS/cm	0.94 mg/L	16.60 NTU	97.4 mV	14.45 ft	750.00 ml/min
8/14/2024 9:24 AM	35:07	6.12 pH	20.05 °C	726.08 µS/cm	1.03 mg/L	16.90 NTU	115.4 mV	14.60 ft	750.00 ml/min
8/14/2024 9:29 AM	40:07	6.12 pH	19.98 °C	726.79 µS/cm	1.03 mg/L	15.80 NTU	99.0 mV	14.45 ft	750.00 ml/min
8/14/2024 9:34 AM	45:07	6.12 pH	19.89 °C	734.09 µS/cm	1.01 mg/L	13.10 NTU	117.4 mV	14.54 ft	750.00 ml/min
8/14/2024 9:39 AM	50:07	6.12 pH	19.80 °C	733.65 µS/cm	0.91 mg/L	12.20 NTU	99.6 mV	14.42 ft	750.00 ml/min
8/14/2024 9:44 AM	55:07	6.12 pH	19.87 °C	735.25 µS/cm	0.91 mg/L	11.30 NTU	99.0 mV	14.35 ft	750.00 ml/min
8/14/2024 9:49 AM	01:00:07	6.12 pH	19.89 °C	735.13 µS/cm	0.98 mg/L	11.10 NTU	117.9 mV	14.55 ft	750.00 ml/min
8/14/2024 9:54 AM	01:05:07	6.12 pH	19.71 °C	732.65 µS/cm	0.95 mg/L	11.60 NTU	99.9 mV	14.43 ft	750.00 ml/min
8/14/2024 9:59 AM	01:10:07	6.11 pH	20.20 °C	733.26 µS/cm	0.90 mg/L	12.00 NTU	99.6 mV	14.56 ft	450.00 ml/min

8/14/2024 10:04 AM	01:15:07	6.10 pH	20.21 °C	733.14 µS/cm	0.61 mg/L	10.90 NTU	119.7 mV	14.61 ft	450.00 ml/min
8/14/2024 10:09 AM	01:20:07	6.10 pH	20.23 °C	731.18 µS/cm	0.70 mg/L	10.70 NTU	100.8 mV	14.47 ft	450.00 ml/min
8/14/2024 10:14 AM	01:25:07	6.10 pH	20.03 °C	732.65 µS/cm	0.67 mg/L	7.76 NTU	100.8 mV	14.51 ft	450.00 ml/min
8/14/2024 10:19 AM	01:30:07	6.10 pH	20.03 °C	730.61 µS/cm	0.63 mg/L	3.60 NTU	100.6 mV	14.46 ft	450.00 ml/min
8/14/2024 10:24 AM	01:35:07	6.09 pH	20.15 °C	730.25 µS/cm	0.59 mg/L	2.35 NTU	100.3 mV	14.52 ft	450.00 ml/min
8/14/2024 10:29 AM	01:40:07	6.08 pH	20.34 °C	733.53 µS/cm	0.72 mg/L	1.61 NTU	100.9 mV	14.40 ft	450.00 ml/min
8/14/2024 10:34 AM	01:45:07	6.08 pH	20.40 °C	730.08 µS/cm	0.73 mg/L	2.53 NTU	124.4 mV	14.55 ft	450.00 ml/min
8/14/2024 10:39 AM	01:50:07	6.09 pH	20.53 °C	729.24 µS/cm	0.78 mg/L	3.71 NTU	103.8 mV	14.48 ft	450.00 ml/min
8/14/2024 10:44 AM	01:55:07	6.08 pH	20.66 °C	729.79 µS/cm	0.69 mg/L	4.79 NTU	104.3 mV	14.39 ft	450.00 ml/min
8/14/2024 10:49 AM	02:00:07	6.09 pH	20.51 °C	729.44 µS/cm	0.66 mg/L	4.70 NTU	104.3 mV	14.45 ft	450.00 ml/min
8/14/2024 10:54 AM	02:05:07	6.08 pH	20.61 °C	730.39 µS/cm	0.69 mg/L	4.84 NTU	104.4 mV	14.52 ft	450.00 ml/min
8/14/2024 10:59 AM	02:10:07	6.07 pH	20.41 °C	728.65 µS/cm	0.70 mg/L	4.51 NTU	126.5 mV	14.55 ft	450.00 ml/min
8/14/2024 11:04 AM	02:15:07	6.07 pH	20.38 °C	730.04 µS/cm	0.71 mg/L	4.50 NTU	105.5 mV	14.49 ft	450.00 ml/min
8/14/2024 11:09 AM	02:20:07	6.06 pH	20.51 °C	732.08 µS/cm	0.70 mg/L	4.49 NTU	105.3 mV	14.49 ft	450.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/13/2024 2:50:05 PM
Project: Arkwright AP-2
Operator Name: Dylan Quintal

Location Name: Arkwright, AP-2, ARAMW-2 **Latitude: 32.921468802958174** **Longitude: -83.7021274807793** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.2 ft** **Total Depth: 25.2 ft** **Initial Depth to Water: 13.81 ft**	**Pump Type: Reclaimer Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 24.8 ft** **Estimated Total Volume Pumped: 71300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 380 ml/min** **Final Draw Down: 0.18 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Low-Flow Test Report 1/2. Redevelopment by over-pumping. lowered pump to bottom of screen and pumped at 1000 mL per minute. Brought to the top of the screen and then slowly lowered. Finished in the middle of the screen and lowered purge rate.

Weather Conditions:
Sunny, 92F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/13/2024 2:50 PM	00:00	6.04 pH	21.01 °C	839.79 µS/cm	0.33 mg/L	26.10 NTU	-55.1 mV	13.99 ft	1,000.00 ml/min
8/13/2024 2:55 PM	05:00	6.05 pH	20.48 °C	872.91 µS/cm	0.42 mg/L	21.00 NTU	-78.6 mV	13.99 ft	1,000.00 ml/min
8/13/2024 3:00 PM	10:00	6.06 pH	20.35 °C	898.22 µS/cm	0.46 mg/L	20.90 NTU	-43.5 mV	13.99 ft	1,000.00 ml/min
8/13/2024 3:05 PM	15:00	6.06 pH	20.43 °C	926.05 µS/cm	0.44 mg/L	18.00 NTU	-38.9 mV	13.99 ft	1,000.00 ml/min
8/13/2024 3:10 PM	20:00	6.07 pH	20.40 °C	946.80 µS/cm	0.48 mg/L	16.10 NTU	-38.7 mV	13.99 ft	1,000.00 ml/min
8/13/2024 3:15 PM	25:00	6.08 pH	20.30 °C	967.11 µS/cm	0.44 mg/L	14.90 NTU	-36.0 mV	13.99 ft	1,000.00 ml/min
8/13/2024 3:20 PM	30:00	6.08 pH	20.32 °C	985.19 µS/cm	0.47 mg/L	13.90 NTU	-34.6 mV	13.99 ft	1,000.00 ml/min
8/13/2024 3:25 PM	35:00	6.08 pH	20.23 °C	994.44 µS/cm	0.42 mg/L	13.30 NTU	-34.9 mV	13.99 ft	1,000.00 ml/min
8/13/2024 3:30 PM	40:00	6.09 pH	20.22 °C	1,005.2 µS/cm	0.45 mg/L	12.00 NTU	-33.3 mV	13.99 ft	1,000.00 ml/min
8/13/2024 3:35 PM	45:00	6.09 pH	20.39 °C	1,016.1 µS/cm	0.44 mg/L	9.79 NTU	-33.7 mV	13.99 ft	1,000.00 ml/min
8/13/2024 3:40 PM	50:00	6.09 pH	20.32 °C	1,024.2 µS/cm	0.44 mg/L	11.00 NTU	-33.0 mV	13.99 ft	1,000.00 ml/min
8/13/2024 3:45 PM	55:00	6.09 pH	20.30 °C	1,033.0 µS/cm	0.45 mg/L	9.37 NTU	-31.6 mV	13.99 ft	1,000.00 ml/min

8/13/2024 3:50 PM	01:00:00	6.09 pH	20.33 °C	1,038.8 µS/cm	0.43 mg/L	8.94 NTU	-31.4 mV	13.99 ft	1,000.00 ml/min
8/13/2024 3:55 PM	01:05:00	6.10 pH	20.30 °C	1,040.6 µS/cm	0.46 mg/L	9.41 NTU	-55.7 mV	13.99 ft	500.00 ml/min
8/13/2024 4:00 PM	01:10:00	6.07 pH	21.50 °C	1,046.7 µS/cm	0.15 mg/L	10.10 NTU	-68.1 mV	13.99 ft	380.00 ml/min
8/13/2024 4:05 PM	01:15:00	6.07 pH	21.41 °C	1,038.8 µS/cm	0.06 mg/L	12.50 NTU	-74.4 mV	13.99 ft	380.00 ml/min
8/13/2024 4:10 PM	01:20:00	6.13 pH	21.55 °C	1,039.5 µS/cm	0.05 mg/L	15.00 NTU	-43.2 mV	13.99 ft	380.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/14/2024 9:00:06 AM
Project: Arkwright AP-2
Operator Name: Dylan Quintal

Location Name: Arkwright, AP-2, ARAMW-2 **Latitude: 32.921468802958174** **Longitude: -83.7021274807793** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.2 ft** **Total Depth: 25.2 ft** **Initial Depth to Water: 13.83 ft**	**Pump Type: Reclaimer Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 24.8 ft** **Estimated Total Volume Pumped: 71991.5 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 430 ml/min** **Final Draw Down: 0.12 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Log 2/2. Redevelopment by over-pumping. Lowered pump to bottom and pumped at 670 mL/min. Brought to the top of the screen and slowly lowered. Finished mid-screen and lowered purge rate. Missing RDO readings associated with probe communication issue.

Weather Conditions:
Overcast, 77F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/14/2024 9:00 AM	00:00	6.10 pH	20.25 °C	960.38 µS/cm	0.69 mg/L	14.60 NTU	16.7 mV	13.89 ft	670.00 ml/min
8/14/2024 9:10 AM	10:01	6.10 pH	20.30 °C	980.98 µS/cm	0.52 mg/L	10.90 NTU	14.9 mV	13.89 ft	670.00 ml/min
8/14/2024 9:15 AM	15:01	6.10 pH	20.35 °C	995.18 µS/cm	0.47 mg/L	8.89 NTU	13.7 mV	13.89 ft	670.00 ml/min
8/14/2024 9:20 AM	20:01	6.11 pH	20.55 °C	1,005.8 µS/cm	0.48 mg/L	9.48 NTU	8.6 mV	13.89 ft	670.00 ml/min
8/14/2024 9:25 AM	25:01	6.16 pH	20.57 °C	1,006.7 µS/cm	3.97 mg/L	189.00 NTU	16.4 mV	13.89 ft	670.00 ml/min
8/14/2024 9:30 AM	30:01	6.11 pH	20.48 °C	1,041.7 µS/cm	1.09 mg/L	123.00 NTU	8.8 mV	13.89 ft	670.00 ml/min
8/14/2024 9:35 AM	35:01	6.11 pH	20.47 °C	1,060.2 µS/cm	0.98 mg/L	75.70 NTU	15.3 mV	13.89 ft	670.00 ml/min
8/14/2024 9:40 AM	40:03	6.10 pH	20.39 °C	1,063.2 µS/cm	0.87 mg/L	53.80 NTU	14.7 mV	13.89 ft	670.00 ml/min
8/14/2024 9:50 AM	50:03	6.11 pH	20.30 °C	1,083.9 µS/cm	0.56 mg/L	16.70 NTU	12.1 mV	12.10 ft	670.00 ml/min
8/14/2024 10:00 AM	01:00:03	6.11 pH	20.88 °C	1,097.1 µS/cm	0.41 mg/L	21.40 NTU	5.6 mV	13.95 ft	670.00 ml/min
8/14/2024 10:10 AM	01:10:03	6.10 pH	20.96 °C	1,099.3 µS/cm	0.25 mg/L	13.60 NTU	9.0 mV	13.95 ft	670.00 ml/min
8/14/2024 10:20 AM	01:20:03	6.09 pH	21.01 °C	1,105.0 µS/cm	0.25 mg/L	8.88 NTU	10.9 mV	13.95 ft	670.00 ml/min

8/14/2024 10:22 AM	01:22:27	6.10 pH	21.58 °C	1,111.7 µS/cm	0.28 mg/L	8.15 NTU	8.7 mV	13.95 ft	670.00 ml/min
8/14/2024 10:27 AM	01:27:27	6.10 pH	21.48 °C	1,105.2 µS/cm	0.23 mg/L	6.96 NTU	13.6 mV	13.95 ft	670.00 ml/min
8/14/2024 10:32 AM	01:32:27	6.09 pH	21.64 °C	1,106.4 µS/cm	0.20 mg/L	5.37 NTU	13.7 mV	13.95 ft	430.00 ml/min
8/14/2024 10:37 AM	01:37:27	6.10 pH	21.49 °C	1,112.1 µS/cm	0.20 mg/L	4.66 NTU	13.4 mV	13.95 ft	430.00 ml/min
8/14/2024 10:42 AM	01:42:27	6.09 pH	22.19 °C	1,110.7 µS/cm		4.84 NTU	15.2 mV	13.95 ft	430.00 ml/min
8/14/2024 10:47 AM	01:47:27	6.10 pH	21.74 °C	1,108.4 µS/cm		4.17 NTU	13.6 mV	13.95 ft	430.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/14/2024 12:18:20 PM
Project: Arkwright AP-2 development
Operator Name: Zach Levy

Location Name: Arkwright, AP-2, ARAMW-7 **Latitude: 32.92168457962877** **Longitude: -83.70282886021718** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 40.4 ft** **Total Depth: 50.75 ft** **Initial Depth to Water: 13.34 ft**	**Pump Type: Reclaimer pump** **Tubing Type: LDPE** **Pump Intake From TOC: 50.75 ft** **Estimated Total Volume Pumped: 35245 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 700 ml/min** **Final Draw Down: 1.9 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 968202**

Test Notes:
Redevelopment by over-pumping. Pump was set at the bottom of the screen, then moved to top of screen, finally moved to mid screen and stability was reached. 3 x 5 gal buckets pumped plus 2 gallons

Weather Conditions:
Cloudy, 77F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
8/14/2024 12:18 PM	00:00	5.70 pH	21.95 °C	1,606.2 µS/cm	1.51 mg/L	6.61 NTU	88.2 mV	15.00 ft	700.00 ml/min
8/14/2024 12:28 PM	10:00	5.61 pH	19.09 °C	1,741.8 µS/cm	1.02 mg/L	4.05 NTU	92.1 mV	15.01 ft	700.00 ml/min
8/14/2024 12:33 PM	15:21	5.61 pH	19.07 °C	1,755.0 µS/cm	1.11 mg/L	3.44 NTU	104.0 mV	15.05 ft	700.00 ml/min
8/14/2024 12:38 PM	20:21	5.60 pH	19.19 °C	1,766.9 µS/cm	1.08 mg/L	2.49 NTU	93.7 mV	15.25 ft	700.00 ml/min
8/14/2024 12:43 PM	25:21	5.53 pH	19.14 °C	1,750.8 µS/cm	1.29 mg/L	7.19 NTU	120.3 mV	15.20 ft	700.00 ml/min
8/14/2024 12:48 PM	30:21	5.56 pH	19.14 °C	1,752.6 µS/cm	0.97 mg/L	4.94 NTU	113.4 mV	15.23 ft	700.00 ml/min
8/14/2024 12:53 PM	35:21	5.58 pH	19.09 °C	1,768.5 µS/cm	0.99 mg/L	2.18 NTU	96.5 mV	15.29 ft	700.00 ml/min
8/14/2024 12:58 PM	40:21	5.58 pH	19.09 °C	1,773.6 µS/cm	0.93 mg/L	1.92 NTU	107.6 mV	15.35 ft	700.00 ml/min
8/14/2024 1:03 PM	45:21	5.59 pH	19.16 °C	1,775.9 µS/cm	0.89 mg/L	1.61 NTU	107.0 mV	15.21 ft	700.00 ml/min
8/14/2024 1:08 PM	50:21	5.58 pH	19.26 °C	1,781.4 µS/cm	0.94 mg/L	1.66 NTU	107.1 mV	15.24 ft	700.00 ml/min

Low-Flow Test Report:

Test Date / Time: 8/13/2024 9:50:55 AM
Project: Arkwright AP-2 development
Operator Name: Zach Levy

Location Name: Arkwright ARAMW-8 **Latitude: 32.91246794999996** **Longitude: -83.69824980999995** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 39.5 ft** **Total Depth: 49.55 ft** **Initial Depth to Water: 12.34 m**	**Pump Type: Reclaimer pump** **Tubing Type: LDPE** **Pump Intake From TOC: 49.5 ft** **Estimated Total Volume Pumped: 36060 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 1.202 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 968202**

Test Notes:
Redevelopment by over-pumping. Started pump at bottom. Moved to top of screen and finished in the middle.Total pumped: approximately 12.5 gals

Weather Conditions:
Clear, 80F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
8/13/2024 9:50 AM	00:00	6.33 pH	23.91 °C	165.58 µS/cm	3.62 mg/L	36.50 NTU	80.2 mV	36.95 ft	650.00 ml/min
8/13/2024 10:00 AM	10:00	6.44 pH	21.18 °C	266.05 µS/cm	3.21 mg/L	22.40 NTU	59.3 mV	39.72 ft	650.00 ml/min
8/13/2024 10:10 AM	20:00	6.48 pH	21.11 °C	352.33 µS/cm	2.87 mg/L	18.30 NTU	49.2 mV	40.32 ft	400.00 ml/min
8/13/2024 10:12 AM	21:54	6.49 pH	21.19 °C	362.98 µS/cm	2.75 mg/L	18.30 NTU	51.9 mV	40.32 ft	400.00 ml/min
8/13/2024 10:22 AM	31:54	6.50 pH	21.14 °C	522.96 µS/cm	1.85 mg/L	11.80 NTU	33.9 mV	41.15 ft	400.00 ml/min
8/13/2024 10:23 AM	32:39	6.50 pH	21.12 °C	533.49 µS/cm	1.73 mg/L	11.80 NTU	33.6 mV	41.15 ft	350.00 ml/min
8/13/2024 10:28 AM	37:39	6.52 pH	21.11 °C	583.94 µS/cm	1.42 mg/L	6.92 NTU	31.8 mV	41.95 ft	350.00 ml/min
8/13/2024 10:33 AM	42:39	6.53 pH	21.18 °C	611.35 µS/cm	1.16 mg/L	5.50 NTU	32.1 mV	42.15 ft	350.00 ml/min
8/13/2024 10:38 AM	47:39	6.55 pH	21.14 °C	628.49 µS/cm	1.13 mg/L	4.46 NTU	30.8 mV	42.97 ft	350.00 ml/min
8/13/2024 10:43 AM	52:39	6.56 pH	21.21 °C	638.66 µS/cm	1.25 mg/L	2.82 NTU	30.8 mV	43.49 ft	350.00 ml/min
8/13/2024 10:48 AM	57:39	6.58 pH	21.29 °C	644.23 µS/cm	1.62 mg/L	3.06 NTU	32.0 mV	43.90 ft	350.00 ml/min
8/13/2024 10:53 AM	01:02:39	6.59 pH	21.36 °C	659.99 µS/cm	2.62 mg/L	3.48 NTU	33.1 mV	44.35 ft	300.00 ml/min

8/13/2024 10:58 AM	01:07:39	6.55 pH	22.03 °C	643.15 µS/cm	2.10 mg/L	6.14 NTU	53.4 mV	44.40 ft	300.00 ml/min
8/13/2024 11:03 AM	01:12:39	6.54 pH	22.07 °C	642.91 µS/cm	1.76 mg/L	3.77 NTU	59.0 mV	44.41 ft	300.00 ml/min
8/13/2024 11:08 AM	01:17:39	6.55 pH	22.08 °C	642.79 µS/cm	2.19 mg/L	2.79 NTU	59.5 mV	44.41 ft	300.00 ml/min
8/13/2024 11:13 AM	01:22:39	6.58 pH	22.39 °C	643.78 µS/cm	2.68 mg/L	2.77 NTU	54.0 mV	44.43 ft	300.00 ml/min
8/13/2024 11:18 AM	01:27:39	6.61 pH	22.48 °C	651.35 µS/cm	3.01 mg/L	2.46 NTU	39.9 mV	44.43 ft	300.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/13/2024 12:35:40 PM
Project: Arkwright AP-2 development
Operator Name: Zach Levy

Location Name: Arkwright, AP-2, ARGWC-21 **Latitude: 32.921465831757004** **Longitude: -83.70213453662315** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.4 ft** **Total Depth: 27.8 ft** **Initial Depth to Water: 14.47 m**	**Pump Type: Reclaimer pump** **Tubing Type: LDPE** **Pump Intake From TOC: 27.4 ft** **Estimated Total Volume Pumped: 43991.668 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: -6.85 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 968202**

Test Notes:
Redevelopment by over-pumping. Started with pump at bottom of screen, then moved to top of screen, finally moved to mid point of screen. Pumped appropriately 17.5 gallons, 3.5 x 5 gal buckets

Weather Conditions:
Clear, 89F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
8/13/2024 12:35 PM	00:00	6.10 pH	21.60 °C	713.39 µS/cm	2.49 mg/L	75.10 NTU	66.7 mV	25.00 ft	500.00 ml/min
8/13/2024 12:45 PM	10:00	6.13 pH	20.65 °C	732.65 µS/cm	3.55 mg/L	36.40 NTU	76.6 mV	25.00 ft	500.00 ml/min
8/13/2024 12:55 PM	20:00	6.11 pH	20.40 °C	746.57 µS/cm	3.37 mg/L	25.10 NTU	78.1 mV	25.00 ft	500.00 ml/min
8/13/2024 1:05 PM	29:59	6.09 pH	20.61 °C	763.96 µS/cm	3.12 mg/L	20.90 NTU	82.7 mV	25.00 ft	500.00 ml/min
8/13/2024 1:10 PM	34:59	6.08 pH	20.47 °C	775.74 µS/cm	2.84 mg/L	17.20 NTU	74.1 mV	25.00 ft	500.00 ml/min
8/13/2024 1:15 PM	39:59	6.08 pH	20.53 °C	780.04 µS/cm	2.55 mg/L	15.20 NTU	72.8 mV	25.00 ft	500.00 ml/min
8/13/2024 1:20 PM	44:59	6.06 pH	20.92 °C	782.72 µS/cm	2.32 mg/L	11.80 NTU	72.1 mV	25.00 ft	400.00 ml/min
8/13/2024 1:25 PM	49:59	6.05 pH	20.83 °C	783.36 µS/cm	2.19 mg/L	8.60 NTU	76.8 mV	25.00 ft	400.00 ml/min
8/13/2024 1:30 PM	54:59	6.05 pH	20.73 °C	796.70 µS/cm	2.17 mg/L	7.58 NTU	69.8 mV	25.00 ft	400.00 ml/min
8/13/2024 1:35 PM	59:59	6.05 pH	20.85 °C	802.47 µS/cm	2.09 mg/L	6.79 NTU	68.4 mV	25.00 ft	400.00 ml/min
8/13/2024 1:40 PM	01:04:59	6.03 pH	21.20 °C	809.07 µS/cm	1.97 mg/L	4.93 NTU	67.3 mV	25.00 ft	300.00 ml/min
8/13/2024 1:45 PM	01:09:59	6.03 pH	21.21 °C	811.06 µS/cm	1.76 mg/L	4.28 NTU	65.5 mV	25.00 ft	300.00 ml/min

8/13/2024 1:50 PM	01:14:59	6.03 pH	21.58 °C	808.48 µS/cm	1.62 mg/L	3.36 NTU	64.2 mV	25.00 ft	300.00 ml/min
8/13/2024 1:55 PM	01:19:59	6.03 pH	21.32 °C	814.26 µS/cm	1.70 mg/L	4.01 NTU	63.3 mV	25.00 ft	300.00 ml/min
8/13/2024 2:00 PM	01:24:59	6.03 pH	21.45 °C	822.14 µS/cm	1.92 mg/L	10.40 NTU	69.7 mV	25.00 ft	300.00 ml/min
8/13/2024 2:05 PM	01:29:59	6.02 pH	21.45 °C	830.71 µS/cm	1.72 mg/L	11.70 NTU	63.3 mV	25.00 ft	300.00 ml/min
8/13/2024 2:10 PM	01:34:59	6.02 pH	21.44 °C	829.86 µS/cm	1.53 mg/L	7.65 NTU	60.5 mV	25.00 ft	300.00 ml/min
8/13/2024 2:15 PM	01:39:59	6.01 pH	21.72 °C	829.10 µS/cm	1.42 mg/L	4.63 NTU	59.0 mV	25.00 ft	300.00 ml/min
8/13/2024 2:20 PM	01:44:59	6.00 pH	21.63 °C	826.67 µS/cm	1.28 mg/L	2.47 NTU	58.7 mV	25.00 ft	300.00 ml/min
8/13/2024 2:25 PM	01:49:59	6.01 pH	21.65 °C	828.47 µS/cm	1.19 mg/L	2.04 NTU	57.1 mV	25.00 ft	300.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/14/2024 12:25:04 PM
Project: Arkwright AP-2
Operator Name: Dylan Quintal

Location Name: Arkwright, AP-2, ARGWC-22 **Latitude: 32.9217536921101** **Longitude: -83.7028370797634** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.71 ft** **Total Depth: 27.71 ft** **Initial Depth to Water: 14.32 ft**	**Pump Type: Reclaimer Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 27.7 ft** **Estimated Total Volume Pumped: 57300 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 180 ml/min** **Final Draw Down: 0.19 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Redevelopment by over-pumping. Pumped at 265 mL/min at bottom of screen. Brought to top of screen, then slowly lowered. Finished mid-screen and lowered flow rate to 180 mL/min. pH did not stabilize due to suspected fault in probe. Missing of RDO readings also associated with probe communication issue.

Weather Conditions:
Mostly sunny, 82F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/14/2024 12:25 PM	00:00	5.75 pH	19.79 °C	1,437.2 µS/cm	0.11 mg/L	5.34 NTU	64.2 mV	14.85 ft	265.00 ml/min
8/14/2024 12:30 PM	05:00	5.74 pH	19.50 °C	1,427.0 µS/cm	0.09 mg/L	5.63 NTU	63.1 mV	14.85 ft	265.00 ml/min
8/14/2024 12:35 PM	10:00	5.76 pH	19.54 °C	1,423.7 µS/cm	0.09 mg/L	5.14 NTU	57.0 mV	14.85 ft	265.00 ml/min
8/14/2024 12:40 PM	15:00	5.78 pH	19.87 °C	1,431.9 µS/cm	0.10 mg/L	2.92 NTU	51.6 mV	14.85 ft	265.00 ml/min
8/14/2024 12:45 PM	20:00	5.98 pH	19.18 °C	1,418.6 µS/cm		77.60 NTU	36.6 mV	17.70 ft	265.00 ml/min
8/14/2024 12:50 PM	25:00	6.30 pH	19.34 °C	1,411.6 µS/cm		34.90 NTU	1.0 mV	17.70 ft	265.00 ml/min
8/14/2024 12:55 PM	30:00	5.82 pH	19.47 °C	1,403.4 µS/cm		21.40 NTU	39.0 mV	17.70 ft	265.00 ml/min
8/14/2024 1:00 PM	35:00	6.28 pH	19.43 °C	1,406.5 µS/cm		11.40 NTU	-7.5 mV	17.70 ft	265.00 ml/min
8/14/2024 1:05 PM	40:00	6.44 pH	19.50 °C	1,404.3 µS/cm		10.20 NTU	-10.4 mV	17.70 ft	265.00 ml/min
8/14/2024 1:10 PM	45:00	6.52 pH	20.07 °C	1,420.0 µS/cm		7.76 NTU	-13.8 mV	14.95 ft	265.00 ml/min
8/14/2024 1:15 PM	50:00	5.79 pH	19.85 °C	1,409.0 µS/cm		8.01 NTU	41.6 mV	14.95 ft	265.00 ml/min
8/14/2024 1:20 PM	55:00	6.44 pH	19.50 °C	1,413.1 µS/cm		10.70 NTU	-6.2 mV	14.95 ft	265.00 ml/min

8/14/2024 1:25 PM	01:00:00	5.89 pH	19.45 °C	1,426.2 µS/cm		9.09 NTU	39.4 mV	14.95 ft	265.00 ml/min
8/14/2024 1:30 PM	01:05:00	5.80 pH	20.28 °C	1,421.3 µS/cm		14.00 NTU	59.0 mV	14.95 ft	265.00 ml/min
8/14/2024 1:35 PM	01:10:00	6.07 pH	19.12 °C	1,414.7 µS/cm		60.40 NTU	38.3 mV	14.81 ft	265.00 ml/min
8/14/2024 1:40 PM	01:15:00	5.82 pH	19.46 °C	1,415.9 µS/cm		30.30 NTU	68.8 mV	14.76 ft	255.00 ml/min
8/14/2024 1:45 PM	01:20:00	5.87 pH	20.18 °C	1,427.5 µS/cm		20.20 NTU	57.1 mV	14.71 ft	255.00 ml/min
8/14/2024 1:50 PM	01:25:00	5.89 pH	20.53 °C	1,425.7 µS/cm		14.00 NTU	51.0 mV	14.71 ft	255.00 ml/min
8/14/2024 1:55 PM	01:30:00	5.80 pH	20.31 °C	1,425.2 µS/cm		10.00 NTU	54.4 mV	14.71 ft	255.00 ml/min
8/14/2024 2:00 PM	01:35:00	6.00 pH	20.30 °C	1,424.1 µS/cm		9.83 NTU	34.2 mV	14.71 ft	255.00 ml/min
8/14/2024 2:05 PM	01:40:00	6.03 pH	20.57 °C	1,422.5 µS/cm		7.62 NTU	28.5 mV	14.71 ft	255.00 ml/min
8/14/2024 2:10 PM	01:45:00	6.08 pH	20.70 °C	1,424.2 µS/cm		8.75 NTU	20.8 mV	14.71 ft	255.00 ml/min
8/14/2024 2:15 PM	01:50:00	5.76 pH	20.66 °C	1,410.6 µS/cm		9.86 NTU	56.9 mV	14.71 ft	255.00 ml/min
8/14/2024 2:20 PM	01:55:00	6.10 pH	20.56 °C	1,416.7 µS/cm		10.40 NTU	17.8 mV	14.71 ft	255.00 ml/min
8/14/2024 2:25 PM	02:00:00	6.11 pH	20.79 °C	1,425.2 µS/cm		10.40 NTU	13.6 mV	14.71 ft	255.00 ml/min
8/14/2024 2:30 PM	02:05:00	6.09 pH	20.88 °C	1,418.3 µS/cm		9.86 NTU	14.7 mV	14.71 ft	255.00 ml/min
8/14/2024 2:35 PM	02:10:00	5.74 pH	21.11 °C	1,418.8 µS/cm		9.75 NTU	55.5 mV	14.71 ft	255.00 ml/min
8/14/2024 2:40 PM	02:15:00	6.15 pH	21.49 °C	1,421.7 µS/cm		8.63 NTU	9.3 mV	14.71 ft	255.00 ml/min
8/14/2024 2:45 PM	02:20:00	5.74 pH	21.42 °C	1,420.1 µS/cm		7.82 NTU	47.8 mV	14.71 ft	255.00 ml/min
8/14/2024 2:50 PM	02:25:00	6.15 pH	21.79 °C	1,421.2 µS/cm		7.68 NTU	6.4 mV	14.71 ft	255.00 ml/min
8/14/2024 2:55 PM	02:30:00	6.19 pH	21.59 °C	1,413.9 µS/cm		7.85 NTU	2.1 mV	14.71 ft	255.00 ml/min
8/14/2024 3:00 PM	02:35:00	6.19 pH	21.14 °C	1,418.7 µS/cm		8.05 NTU	1.0 mV	14.71 ft	255.00 ml/min
8/14/2024 3:05 PM	02:40:00	6.22 pH	21.32 °C	1,418.1 µS/cm		7.35 NTU	-1.3 mV	14.71 ft	255.00 ml/min
8/14/2024 3:10 PM	02:45:00	6.21 pH	21.37 °C	1,413.3 µS/cm		7.39 NTU	-1.1 mV	14.71 ft	255.00 ml/min
8/14/2024 3:15 PM	02:50:00	6.23 pH	21.40 °C	1,413.6 µS/cm		7.35 NTU	-3.7 mV	14.71 ft	255.00 ml/min
8/14/2024 3:20 PM	02:55:00	6.41 pH	21.54 °C	1,418.4 µS/cm		6.84 NTU	-8.5 mV	14.71 ft	255.00 ml/min
8/14/2024 3:25 PM	03:00:00	6.44 pH	21.60 °C	1,418.7 µS/cm		6.67 NTU	-9.4 mV	14.71 ft	255.00 ml/min
8/14/2024 3:30 PM	03:05:00	6.54 pH	21.43 °C	1,418.3 µS/cm		5.93 NTU	-11.2 mV	14.71 ft	255.00 ml/min
8/14/2024 3:35 PM	03:10:00	6.53 pH	21.31 °C	1,418.4 µS/cm		5.24 NTU	-11.2 mV	14.71 ft	180.00 ml/min
8/14/2024 3:40 PM	03:15:00	6.58 pH	21.48 °C	1,417.2 µS/cm		5.05 NTU	-12.0 mV	14.51 ft	180.00 ml/min
8/14/2024 3:45 PM	03:20:00	6.58 pH	21.28 °C	1,421.3 µS/cm		4.98 NTU	-14.5 mV	14.51 ft	180.00 ml/min

8/14/2024 3:50 PM	03:25:00	6.62 pH	21.41 °C	1,421.1 µS/cm		4.47 NTU	-14.8 mV	14.51 ft	180.00 ml/min
8/14/2024 3:55 PM	03:30:00	6.51 pH	21.37 °C	1,413.8 µS/cm		4.51 NTU	-17.4 mV	14.51 ft	180.00 ml/min
8/14/2024 4:00 PM	03:35:00	6.62 pH	21.19 °C	1,417.0 µS/cm		4.17 NTU	-20.5 mV	14.51 ft	180.00 ml/min
8/14/2024 4:05 PM	03:40:00	6.64 pH	21.28 °C	1,416.7 µS/cm		4.11 NTU	-21.5 mV	14.51 ft	180.00 ml/min
8/14/2024 4:10 PM	03:45:00	6.53 pH	21.57 °C	1,417.8 µS/cm		4.14 NTU	-23.4 mV	14.51 ft	180.00 ml/min
8/14/2024 4:15 PM	03:50:00	5.75 pH	21.38 °C	1,407.6 µS/cm		3.91 NTU	36.6 mV	14.51 ft	180.00 ml/min
8/14/2024 4:20 PM	03:55:00	6.67 pH	21.24 °C	1,412.7 µS/cm		4.12 NTU	-20.8 mV	14.51 ft	180.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 8/13/2024 9:55:04 AM
Project: Arkwright AP-2
Operator Name: Dylan Quintal

Location Name: Arkwright, AP-2, ARGWC-23 **Latitude: 32.921245532411625** **Longitude: -83.7017968104718** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.4 ft** **Total Depth: 28.4 ft** **Initial Depth to Water: 12.7 ft**	**Pump Type: Reclaimer Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 28.3 ft** **Estimated Total Volume Pumped: 25 gal** **Flow Cell Volume: 90 ml** **Final Flow Rate: 650 ml/min** **Final Draw Down: 9.3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Redevelopment by over-pumping. Lowered pump to bottom and began purging at 1000 mL per minute. Lowered flow rate to 500 mL/min at 1005. Surged bottom of screen at 1020. Brought to the top of the screen and then slowly lowered. Finished in the middle of the screen.

Weather Conditions:
Sunny, 80F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/13/2024 9:55 AM	00:00	6.40 pH	20.52 °C	525.57 µS/cm	0.96 mg/L	56.10 NTU	162.4 mV	12.70 ft	1,000.00 ml/min
8/13/2024 10:05 AM	10:00	6.45 pH	20.77 °C	524.30 µS/cm	3.22 mg/L	72.10 NTU	139.6 mV	22.00 ft	500.00 ml/min
8/13/2024 10:15 AM	20:00	6.44 pH	21.28 °C	524.78 µS/cm	2.65 mg/L	31.80 NTU	137.4 mV	22.00 ft	500.00 ml/min
8/13/2024 10:22 AM	27:53	6.41 pH	21.01 °C	528.63 µS/cm	2.29 mg/L	75.90 NTU	165.6 mV	22.00 ft	500.00 ml/min
8/13/2024 10:25 AM	29:57	6.41 pH	21.01 °C	528.75 µS/cm	2.58 mg/L	1,000.00 NTU	156.1 mV	22.00 ft	500.00 ml/min
8/13/2024 10:25 AM	30:26	6.41 pH	21.01 °C	529.01 µS/cm	2.62 mg/L	1,000.00 NTU	154.0 mV	22.00 ft	500.00 ml/min
8/13/2024 10:25 AM	30:40	6.41 pH	21.01 °C	529.29 µS/cm	2.63 mg/L	1,000.00 NTU	152.5 mV	22.00 ft	500.00 ml/min
8/13/2024 10:35 AM	40:40	6.41 pH	20.90 °C	528.50 µS/cm	1.81 mg/L	85.80 NTU	113.6 mV	22.00 ft	500.00 ml/min
8/13/2024 10:45 AM	50:40	6.39 pH	20.88 °C	530.69 µS/cm	1.80 mg/L	32.20 NTU	121.0 mV	22.00 ft	500.00 ml/min
8/13/2024 10:55 AM	01:00:40	6.39 pH	21.03 °C	528.86 µS/cm	1.59 mg/L	29.90 NTU	120.5 mV	22.00 ft	500.00 ml/min
8/13/2024 11:05 AM	01:10:40	6.42 pH	21.71 °C	527.22 µS/cm	3.75 mg/L	53.40 NTU	132.1 mV	22.00 ft	500.00 ml/min

8/13/2024 11:15 AM	01:20:40	7.76 pH	23.65 °C	534.03 µS/cm	8.89 mg/L	175.00 NTU	141.7 mV	22.00 ft	300.00 ml/min
8/13/2024 11:25 AM	01:30:40	6.33 pH	23.70 °C	531.68 µS/cm	3.93 mg/L	65.30 NTU	204.0 mV	22.00 ft	300.00 ml/min
8/13/2024 11:35 AM	01:40:40	6.33 pH	23.55 °C	533.15 µS/cm	2.87 mg/L	78.60 NTU	143.0 mV	22.00 ft	300.00 ml/min
8/13/2024 11:45 AM	01:50:40	6.34 pH	23.69 °C	532.06 µS/cm	2.38 mg/L	55.30 NTU	139.7 mV	22.00 ft	300.00 ml/min
8/13/2024 11:55 AM	02:00:40	6.35 pH	23.66 °C	531.55 µS/cm	2.05 mg/L	31.40 NTU	140.3 mV	22.00 ft	300.00 ml/min
8/13/2024 12:05 PM	02:10:40	6.33 pH	23.97 °C	530.22 µS/cm	1.74 mg/L	20.60 NTU	140.4 mV	22.00 ft	300.00 ml/min
8/13/2024 12:15 PM	02:20:40	6.34 pH	23.87 °C	529.45 µS/cm	1.54 mg/L	14.20 NTU	196.7 mV	22.00 ft	300.00 ml/min
8/13/2024 12:25 PM	02:30:40	6.35 pH	24.37 °C	529.94 µS/cm	1.35 mg/L	12.30 NTU	149.2 mV	22.00 ft	300.00 ml/min
8/13/2024 12:35 PM	02:40:40	6.35 pH	24.42 °C	530.62 µS/cm	1.18 mg/L	6.91 NTU	149.0 mV	22.00 ft	300.00 ml/min
8/13/2024 12:40 PM	02:45:10	6.35 pH	24.41 °C	529.39 µS/cm	1.14 mg/L	5.16 NTU	195.2 mV	22.00 ft	300.00 ml/min
8/13/2024 12:45 PM	02:50:10	6.35 pH	24.46 °C	529.32 µS/cm	1.09 mg/L	4.46 NTU	147.7 mV	22.00 ft	300.00 ml/min
8/13/2024 12:50 PM	02:55:10	6.34 pH	24.50 °C	530.24 µS/cm	1.03 mg/L	4.11 NTU	145.5 mV	22.00 ft	300.00 ml/min
8/13/2024 12:55 PM	03:00:10	6.33 pH	24.50 °C	529.51 µS/cm	0.98 mg/L	4.47 NTU	149.4 mV	22.00 ft	300.00 ml/min
8/13/2024 1:00 PM	03:05:10	6.34 pH	24.77 °C	533.68 µS/cm	0.93 mg/L	46.70 NTU	142.5 mV	22.00 ft	300.00 ml/min
8/13/2024 1:05 PM	03:10:10	6.36 pH	26.15 °C	531.04 µS/cm	0.97 mg/L	17.40 NTU	140.9 mV	22.00 ft	300.00 ml/min
8/13/2024 1:10 PM	03:15:10	6.38 pH	25.98 °C	527.16 µS/cm	0.81 mg/L	15.20 NTU	161.4 mV	22.00 ft	300.00 ml/min
8/13/2024 1:15 PM	03:20:10	6.38 pH	25.79 °C	527.07 µS/cm	0.75 mg/L	26.30 NTU	113.4 mV	22.00 ft	300.00 ml/min
8/13/2024 1:20 PM	03:25:10	6.38 pH	26.15 °C	526.39 µS/cm	0.73 mg/L	34.70 NTU	38.7 mV	22.00 ft	300.00 ml/min
8/13/2024 1:25 PM	03:30:10	6.37 pH	26.02 °C	526.64 µS/cm	0.71 mg/L	36.60 NTU	-2.6 mV	22.00 ft	300.00 ml/min
8/13/2024 1:30 PM	03:35:10	6.38 pH	22.30 °C	521.53 µS/cm	1.20 mg/L	21.00 NTU	-42.9 mV	22.00 ft	650.00 ml/min
8/13/2024 1:35 PM	03:40:10	6.38 pH	21.86 °C	527.54 µS/cm	0.97 mg/L	13.20 NTU	10.5 mV	22.00 ft	650.00 ml/min
8/13/2024 1:40 PM	03:45:10	6.37 pH	21.63 °C	528.41 µS/cm	0.91 mg/L	8.28 NTU	10.0 mV	22.00 ft	650.00 ml/min
8/13/2024 1:45 PM	03:50:10	6.35 pH	22.04 °C	528.55 µS/cm	0.83 mg/L	6.68 NTU	10.8 mV	22.00 ft	650.00 ml/min
8/13/2024 1:50 PM	03:55:10	6.36 pH	21.99 °C	528.17 µS/cm	0.75 mg/L	4.68 NTU	-6.1 mV	22.00 ft	650.00 ml/min
8/13/2024 1:57 PM	04:02:43	6.38 pH	22.03 °C	527.88 µS/cm	0.75 mg/L	3.79 NTU	-14.2 mV	22.00 ft	650.00 ml/min
8/13/2024 2:02 PM	04:07:43	6.37 pH	22.17 °C	528.96 µS/cm	0.75 mg/L	2.98 NTU	0.1 mV	22.00 ft	650.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/28/2025 3:23:19 PM
Project: AP2 Well Redevelopment
Operator Name: J. Ashe

Location Name: ARAMW-7 **Latitude: 32.92003148500956** **Longitude: -83.70404718522138** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 38 ft** **Total Depth: 48 ft** **Initial Depth to Water: 10.01 ft**	**Pump Type: Aqua Troll** **Tubing Type: Poly** **Pump Intake From TOC: 47 ft** **Estimated Total Volume Pumped: 57839.168 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 650 ml/min** **Final Draw Down: 1.54 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1120055**

Test Notes:
16:35 changed to 320 flow rate; approx. 12.5 gallons of water purged; Low @ 13:25, Mid @ 15:55, Hi @ 16:10, Mid @ 16:35.

Weather Conditions:
Sunny, 13°C

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
1/28/2025 3:23 PM	00:00	5.85 pH	19.03 °C	1,810.6 µS/cm	1.99 mg/L		148.0 mV	10.01 ft	650.00 ml/min
1/28/2025 3:28 PM	05:00	5.68 pH	17.93 °C	1,824.0 µS/cm	0.12 mg/L	15.50 NTU	58.6 mV	10.01 ft	650.00 ml/min
1/28/2025 3:33 PM	10:00	5.67 pH	17.90 °C	1,846.6 µS/cm	0.09 mg/L	10.50 NTU	26.4 mV	10.01 ft	650.00 ml/min
1/28/2025 3:38 PM	15:00	5.67 pH	17.90 °C	1,831.7 µS/cm	0.08 mg/L	7.69 NTU	10.2 mV	10.01 ft	650.00 ml/min
1/28/2025 3:43 PM	20:00	5.68 pH	17.90 °C	1,836.6 µS/cm	0.09 mg/L	8.56 NTU	-1.6 mV	10.01 ft	650.00 ml/min
1/28/2025 3:48 PM	25:00	5.67 pH	17.89 °C	1,839.1 µS/cm	0.07 mg/L	7.28 NTU	-7.2 mV	10.01 ft	650.00 ml/min
1/28/2025 3:53 PM	30:00	5.67 pH	17.86 °C	1,848.1 µS/cm	0.08 mg/L	33.90 NTU	-10.6 mV	11.55 ft	650.00 ml/min
1/28/2025 3:58 PM	35:00	5.65 pH	17.84 °C	1,809.5 µS/cm	0.09 mg/L	25.70 NTU	-41.4 mV	11.55 ft	650.00 ml/min
1/28/2025 4:03 PM	40:00	5.66 pH	17.83 °C	1,826.2 µS/cm	0.07 mg/L	13.50 NTU	-24.7 mV	11.55 ft	650.00 ml/min
1/28/2025 4:08 PM	45:00	5.67 pH	17.81 °C	1,849.9 µS/cm	0.07 mg/L	8.82 NTU	-19.7 mV	11.55 ft	650.00 ml/min
1/28/2025 4:13 PM	50:00	6.64 pH	17.72 °C	584.08 µS/cm	0.73 mg/L	137.00 NTU	-120.1 mV	11.55 ft	650.00 ml/min
1/28/2025 4:18 PM	55:00	5.70 pH	17.74 °C	1,806.6 µS/cm	0.10 mg/L	10.50 NTU	-48.5 mV	11.55 ft	650.00 ml/min
1/28/2025 4:23 PM	01:00:00	5.67 pH	17.72 °C	1,829.0 µS/cm	0.09 mg/L	5.41 NTU	-27.6 mV	11.55 ft	650.00 ml/min

1/28/2025 4:28 PM	01:05:00	5.66 pH	17.72 °C	1,838.8 µS/cm	0.08 mg/L	6.34 NTU	-20.5 mV	11.55 ft	650.00 ml/min
1/28/2025 4:33 PM	01:10:00	5.65 pH	17.63 °C	1,850.3 µS/cm	0.07 mg/L	1.25 NTU	-15.3 mV	11.55 ft	650.00 ml/min
1/28/2025 4:35 PM	01:11:43	5.65 pH	17.55 °C	1,832.4 µS/cm	0.05 mg/L	0.67 NTU	-16.2 mV	11.55 ft	650.00 ml/min
1/28/2025 4:40 PM	01:16:43	5.66 pH	17.50 °C	1,866.7 µS/cm	0.03 mg/L	0.73 NTU	-5.7 mV	11.55 ft	650.00 ml/min
1/28/2025 4:45 PM	01:21:43	5.66 pH	17.48 °C	1,861.5 µS/cm	0.03 mg/L	4.49 NTU	-3.5 mV	11.55 ft	650.00 ml/min
1/28/2025 4:50 PM	01:26:43	5.66 pH	17.42 °C	1,860.8 µS/cm	0.02 mg/L	9.89 NTU	-2.9 mV	11.55 ft	650.00 ml/min
1/28/2025 4:51 PM	01:28:34	5.66 pH	17.47 °C	1,912.0 µS/cm	0.02 mg/L		-1.8 mV	11.55 ft	650.00 ml/min
1/28/2025 4:52 PM	01:28:59	5.66 pH	17.46 °C	1,846.2 µS/cm	0.02 mg/L		-4.6 mV	11.55 ft	650.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/29/2025 8:32:00 AM
Project: AP-2 well Redevelopment
Operator Name: J Bankston

Location Name: ARAMW-8 **Latitude: 32.92047901961417** **Longitude: -83.70401491334778** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37 ft** **Total Depth: 47 ft** **Initial Depth to Water: 11.62 ft**	**Pump Type: Reclaimer** **Tubing Type: Poly** **Pump Intake From TOC: 46 ft** **Estimated Total Volume Pumped: 26990 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 16.12 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170046**

Test Notes:
Redevelopment by over pumping.
0850 reduce flow rate to 200 ml/ move to middle of screen for final stabilization due to high drawdown

Weather Conditions:
Sunny 5 C

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
1/29/2025 8:32 AM	00:00	6.48 pH	18.42 °C	647.79 µS/cm	0.58 mg/L	15.50 NTU	66.1 mV	15.23 ft	600.00 ml/min
1/29/2025 8:37 AM	05:00	6.46 pH	18.60 °C	525.86 µS/cm	0.40 mg/L	11.40 NTU	58.3 mV	19.21 ft	600.00 ml/min
1/29/2025 8:42 AM	10:00	6.39 pH	18.69 °C	275.53 µS/cm	0.46 mg/L	11.70 NTU	70.1 mV	23.38 ft	450.00 ml/min
1/29/2025 8:47 AM	15:00	6.37 pH	18.60 °C	202.02 µS/cm	0.66 mg/L	8.67 NTU	88.8 mV	26.33 ft	450.00 ml/min
1/29/2025 8:50 AM	18:52	6.39 pH	18.03 °C	199.78 µS/cm	1.46 mg/L	5.99 NTU	72.5 mV	27.14 ft	200.00 ml/min
1/29/2025 8:55 AM	23:52	6.43 pH	17.32 °C	261.55 µS/cm	2.11 mg/L	8.64 NTU	60.3 mV	27.46 ft	200.00 ml/min
1/29/2025 9:00 AM	28:52	6.45 pH	16.57 °C	222.94 µS/cm	2.93 mg/L	16.40 NTU	64.4 mV	27.84 ft	200.00 ml/min
1/29/2025 9:05 AM	33:52	6.46 pH	17.04 °C	250.68 µS/cm	3.18 mg/L	14.20 NTU	65.8 mV	27.78 ft	200.00 ml/min
1/29/2025 9:10 AM	38:52	6.46 pH	15.83 °C	273.29 µS/cm	3.00 mg/L	14.45 NTU	65.2 mV	27.74 ft	200.00 ml/min
1/29/2025 9:15 AM	43:52	6.46 pH	15.60 °C	285.56 µS/cm	2.86 mg/L	14.50 NTU	66.8 mV	27.74 ft	200.00 ml/min
1/29/2025 9:20 AM	48:52	6.46 pH	15.53 °C	298.20 µS/cm	2.77 mg/L	13.20 NTU	87.1 mV	27.74 ft	200.00 ml/min
1/29/2025 9:25 AM	53:52	6.46 pH	15.79 °C	315.05 µS/cm	2.64 mg/L	13.00 NTU	68.6 mV	27.74 ft	200.00 ml/min

1/29/2025 9:30 AM	58:52	6.46 pH	16.05 °C	340.31 µS/cm	2.47 mg/L	11.10 NTU	68.2 mV	27.74 ft	200.00 ml/min
1/29/2025 9:35 AM	01:03:52	6.45 pH	16.11 °C	362.78 µS/cm	2.26 mg/L	10.20 NTU	67.1 mV	27.74 ft	200.00 ml/min
1/29/2025 9:40 AM	01:08:52	6.45 pH	16.16 °C	402.89 µS/cm	2.03 mg/L	9.22 NTU	85.5 mV	27.74 ft	200.00 ml/min
1/29/2025 9:45 AM	01:13:52	6.45 pH	16.41 °C	427.05 µS/cm	1.82 mg/L	7.85 NTU	68.6 mV	27.74 ft	200.00 ml/min
1/29/2025 9:50 AM	01:18:52	6.45 pH	16.55 °C	460.33 µS/cm	1.60 mg/L	7.39 NTU	69.3 mV	27.74 ft	200.00 ml/min
1/29/2025 9:55 AM	01:23:52	6.44 pH	16.65 °C	491.73 µS/cm	1.36 mg/L	5.22 NTU	69.3 mV	27.74 ft	200.00 ml/min
1/29/2025 10:00 AM	01:28:52	6.45 pH	16.82 °C	540.21 µS/cm	1.09 mg/L	4.08 NTU	68.4 mV	27.74 ft	200.00 ml/min
1/29/2025 10:05 AM	01:33:52	6.45 pH	16.79 °C	595.49 µS/cm	0.70 mg/L	3.83 NTU	66.3 mV	27.74 ft	200.00 ml/min
1/29/2025 10:10 AM	01:38:52	6.45 pH	16.87 °C	615.29 µS/cm	0.45 mg/L	3.75 NTU	65.2 mV	27.74 ft	200.00 ml/min
1/29/2025 10:15 AM	01:43:52	6.44 pH	17.00 °C	623.85 µS/cm	0.35 mg/L	3.72 NTU	65.0 mV	27.74 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/29/2025 12:31:58 PM
Project: AP-2 well Redevelopment (2)
Operator Name: J Bankston

Location Name: ARAMW-9 **Latitude: 32.9215539465901** **Longitude: -83.70279743393324** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 92.9 ft** **Total Depth: 102.9 ft** **Initial Depth to Water: 6.08 ft**	**Pump Type: Reclaimer** **Tubing Type: Poly** **Pump Intake From TOC: 101 ft** **Estimated Total Volume Pumped: 17175 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 19.65 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170046**

Test Notes:
Redevelopment by over-pumping.
1245 reduce flow rate to 150ml/min
1250 reduce flow rate to 110ml/min
Approximately 3 gallons purged

Weather Conditions:
Sunny 15C

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
1/29/2025 12:31 PM	00:00	7.47 pH	19.06 °C	997.36 µS/cm	1.49 mg/L	0.48 NTU	-79.5 mV	9.11 ft	545.00 ml/min
1/29/2025 12:36 PM	05:00	7.84 pH	18.08 °C	1,061.0 µS/cm	0.53 mg/L	1.36 NTU	-104.4 mV	13.26 ft	545.00 ml/min
1/29/2025 12:41 PM	10:00	7.89 pH	17.89 °C	1,068.2 µS/cm	0.36 mg/L	1.26 NTU	-108.6 mV	16.87 ft	545.00 ml/min
1/29/2025 12:46 PM	15:00	7.90 pH	17.86 °C	1,064.6 µS/cm	0.32 mg/L	0.77 NTU	-111.7 mV	17.28 ft	200.00 ml/min
1/29/2025 12:51 PM	20:00	7.91 pH	17.98 °C	1,059.4 µS/cm	0.36 mg/L	0.26 NTU	-111.9 mV	18.91 ft	200.00 ml/min
1/29/2025 12:56 PM	25:00	7.91 pH	17.83 °C	1,055.3 µS/cm	0.38 mg/L	0.70 NTU	-111.2 mV	19.68 ft	200.00 ml/min
1/29/2025 1:01 PM	30:00	7.91 pH	17.84 °C	1,060.6 µS/cm	0.42 mg/L	0.56 NTU	-111.0 mV	20.60 ft	200.00 ml/min
1/29/2025 1:06 PM	35:00	7.92 pH	17.80 °C	1,062.6 µS/cm	0.46 mg/L	0.47 NTU	-112.8 mV	21.35 ft	200.00 ml/min
1/29/2025 1:11 PM	40:00	7.91 pH	17.86 °C	1,072.1 µS/cm	0.50 mg/L	0.66 NTU	-153.3 mV	22.09 ft	200.00 ml/min
1/29/2025 1:16 PM	45:00	7.92 pH	18.23 °C	1,056.3 µS/cm	0.51 mg/L	0.68 NTU	-111.2 mV	23.45 ft	200.00 ml/min
1/29/2025 1:21 PM	50:00	7.93 pH	17.99 °C	1,061.9 µS/cm	0.50 mg/L	1.11 NTU	-106.7 mV	24.09 ft	200.00 ml/min

1/29/2025 1:26 PM	55:00	7.95 pH	17.90 °C	1,076.0 µS/cm	0.49 mg/L	0.81 NTU	-149.8 mV	24.67 ft	200.00 ml/min
1/29/2025 1:31 PM	01:00:00	7.96 pH	17.90 °C	1,067.1 µS/cm	0.48 mg/L	0.78 NTU	-108.6 mV	25.73 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/29/2025 11:06:41 AM
Project: AP2 Well Redevelopment
Operator Name: J. Ashe

Location Name: ARGWC-21 **Latitude: 32.92146267292159** **Longitude: -83.70220506385289** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 14.57 ft** **Total Depth: 24.57 ft** **Initial Depth to Water: 13.38 ft**	**Pump Type: Aqua Troll** **Tubing Type: Poly** **Pump Intake From TOC: 23 ft** **Estimated Total Volume Pumped: 14400 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 2.4 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1120055**

Test Notes:
Redevelopment by over-pumping; Low screen @1106, Mid screen @1111; 1 bucket, approx. 5 gallons of purge; Due to high drawn down, top of screen interval not purged.

Weather Conditions:
Sunny, 13°C

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
1/29/2025 11:06 AM	00:00	6.07 pH	19.77 °C	726.27 µS/cm	1.64 mg/L		75.1 mV	13.38 ft	600.00 ml/min
1/29/2025 11:11 AM	05:00	6.08 pH	19.52 °C	715.82 µS/cm	0.55 mg/L	86.60 NTU	56.0 mV	16.90 ft	600.00 ml/min
1/29/2025 11:16 AM	10:00	6.07 pH	19.61 °C	716.08 µS/cm	0.60 mg/L	75.70 NTU	50.6 mV	16.40 ft	210.00 ml/min
1/29/2025 11:21 AM	15:00	6.07 pH	19.68 °C	712.53 µS/cm	0.65 mg/L	89.50 NTU	48.3 mV	16.00 ft	210.00 ml/min
1/29/2025 11:26 AM	20:00	6.07 pH	19.59 °C	712.17 µS/cm	0.45 mg/L	53.40 NTU	46.2 mV	15.83 ft	210.00 ml/min
1/29/2025 11:31 AM	25:00	6.07 pH	19.65 °C	708.54 µS/cm	0.34 mg/L	24.10 NTU	48.4 mV	15.78 ft	210.00 ml/min
1/29/2025 11:36 AM	30:00	6.06 pH	19.64 °C	705.49 µS/cm	0.46 mg/L	16.20 NTU	48.3 mV	15.78 ft	210.00 ml/min
1/29/2025 11:41 AM	35:00	6.06 pH	19.63 °C	699.76 µS/cm	0.44 mg/L	15.20 NTU	49.1 mV	15.78 ft	210.00 ml/min
1/29/2025 11:46 AM	40:00	6.06 pH	19.68 °C	696.10 µS/cm	0.27 mg/L	11.90 NTU	49.6 mV	15.78 ft	210.00 ml/min
1/29/2025 11:51 AM	45:00	6.06 pH	19.46 °C	698.20 µS/cm	0.25 mg/L	10.60 NTU	49.8 mV	15.78 ft	210.00 ml/min
1/29/2025 11:56 AM	50:00	6.06 pH	19.55 °C	694.29 µS/cm	0.24 mg/L	7.86 NTU	50.9 mV	15.78 ft	210.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/28/2025 3:21:12 PM
Project: AP-2 well Redevelopment
Operator Name: J Bankston

Location Name: ARGWC-22 **Latitude: 32.921821946601604** **Longitude: -83.70278373909855** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15 ft** **Total Depth: 25 ft** **Initial Depth to Water: 10.69 ft**	**Pump Type: Reclaimer** **Tubing Type: Poly** **Pump Intake From TOC: 24 ft** **Estimated Total Volume Pumped: 64304.168 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 550 ml/min** **Final Draw Down: 0.41 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170046**

Test Notes:
1520 begin test
1553 move to middle of screen
1607 move to top of screen
1645 move to middle of screen
/ flow rate change to 300ml/min
3 buckets purged,

Weather Conditions:
Sunny 50 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
1/28/2025 3:21 PM	00:00	5.68 pH	18.36 °C	1,609.8 µS/cm	0.56 mg/L	28.40 NTU	129.4 mV	11.20 ft	550.00 ml/min
1/28/2025 3:26 PM	05:00	5.70 pH	18.02 °C	1,523.6 µS/cm	0.40 mg/L	32.00 NTU	141.5 mV	11.20 ft	550.00 ml/min
1/28/2025 3:31 PM	10:00	5.75 pH	17.96 °C	1,509.0 µS/cm	0.36 mg/L	32.60 NTU	101.5 mV	11.21 ft	550.00 ml/min
1/28/2025 3:36 PM	15:00	5.78 pH	17.96 °C	1,515.6 µS/cm	0.31 mg/L	26.70 NTU	88.9 mV	11.21 ft	550.00 ml/min
1/28/2025 3:41 PM	20:00	5.80 pH	17.98 °C	1,488.4 µS/cm	0.25 mg/L	19.20 NTU	78.5 mV	11.23 ft	550.00 ml/min
1/28/2025 3:46 PM	25:00	5.81 pH	17.95 °C	1,505.9 µS/cm	0.19 mg/L	14.70 NTU	71.8 mV	11.23 ft	550.00 ml/min
1/28/2025 3:51 PM	30:00	5.83 pH	17.95 °C	1,479.6 µS/cm	0.16 mg/L	9.89 NTU	63.5 mV	11.25 ft	550.00 ml/min
1/28/2025 3:56 PM	35:00	5.92 pH	17.86 °C	1,430.9 µS/cm	0.29 mg/L	20.60 NTU	20.5 mV	11.28 ft	550.00 ml/min
1/28/2025 4:01 PM	40:00	5.88 pH	17.83 °C	1,447.1 µS/cm	0.14 mg/L	12.50 NTU	19.6 mV	11.28 ft	550.00 ml/min
1/28/2025 4:06 PM	45:00	5.87 pH	17.81 °C	1,454.4 µS/cm	0.17 mg/L	9.21 NTU	23.5 mV	11.30 ft	550.00 ml/min

1/28/2025 4:11 PM	50:00	5.92 pH	17.60 °C	1,410.2 µS/cm	0.73 mg/L	109.00 NTU	42.4 mV	11.32 ft	550.00 ml/min
1/28/2025 4:16 PM	55:00	5.90 pH	17.68 °C	1,447.6 µS/cm	0.15 mg/L	19.10 NTU	14.6 mV	11.35 ft	550.00 ml/min
1/28/2025 4:21 PM	01:00:00	5.86 pH	17.75 °C	1,447.9 µS/cm	0.06 mg/L	4.06 NTU	13.7 mV	11.35 ft	550.00 ml/min
1/28/2025 4:26 PM	01:05:00	5.84 pH	17.73 °C	1,466.9 µS/cm	0.03 mg/L	3.47 NTU	12.3 mV	11.35 ft	550.00 ml/min
1/28/2025 4:31 PM	01:10:00	5.84 pH	17.74 °C	1,485.8 µS/cm	0.02 mg/L	2.99 NTU	11.8 mV	11.35 ft	550.00 ml/min
1/28/2025 4:33 PM	01:12:32	5.83 pH	17.72 °C	1,522.0 µS/cm	0.02 mg/L	1.86 NTU	11.4 mV	11.35 ft	550.00 ml/min
1/28/2025 4:38 PM	01:17:32	5.83 pH	17.75 °C	1,476.7 µS/cm	0.02 mg/L	3.63 NTU	8.3 mV	11.35 ft	550.00 ml/min
1/28/2025 4:43 PM	01:22:32	5.83 pH	17.72 °C	1,482.9 µS/cm	0.01 mg/L	3.51 NTU	8.3 mV	11.35 ft	550.00 ml/min
1/28/2025 4:48 PM	01:27:32	5.81 pH	17.68 °C	1,490.4 µS/cm	0.01 mg/L	5.87 NTU	7.7 mV	11.28 ft	550.00 ml/min
1/28/2025 4:56 PM	01:34:56	5.85 pH	17.41 °C	1,489.6 µS/cm	0.01 mg/L	2.77 NTU	3.0 mV	11.10 ft	550.00 ml/min
1/28/2025 5:01 PM	01:39:56	5.84 pH	17.39 °C	1,470.9 µS/cm	0.01 mg/L	4.67 NTU	8.1 mV	11.10 ft	550.00 ml/min
1/28/2025 5:06 PM	01:44:56	5.84 pH	17.36 °C	1,462.2 µS/cm	0.01 mg/L	2.29 NTU	9.0 mV	11.10 ft	550.00 ml/min
1/28/2025 5:08 PM	01:46:55	5.84 pH	17.36 °C	1,432.8 µS/cm	0.01 mg/L	2.11 NTU	7.1 mV	11.10 ft	550.00 ml/min
1/28/2025 5:13 PM	01:51:55	5.83 pH	17.35 °C	1,467.4 µS/cm	0.00 mg/L	2.27 NTU	10.9 mV	11.10 ft	550.00 ml/min
1/28/2025 5:18 PM	01:56:55	5.84 pH	17.28 °C	1,457.7 µS/cm	0.00 mg/L	2.34 NTU	11.1 mV	11.10 ft	550.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 1/29/2025 8:35:34 AM
Project: AP2 Well Redevelopment
Operator Name: J. Ashe

Location Name: ARAMW-7 **Latitude: 32.92003148500956** **Longitude: -83.70404718522138** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35 ft** **Total Depth: 25 ft** **Initial Depth to Water: 11.96 ft**	**Pump Type: Aqua Troll** **Tubing Type: Poly** **Pump Intake From TOC: 24 ft** **Estimated Total Volume Pumped: 18856.666 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 3.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1120055**

Test Notes:
Redevelopment by over-pumping; Low screen @ 0835, Mid screen @ 850; 1 bucket, approx. 5 gallons of purge; Due to high drawn down, top of screen interval not purged; last sample erroneous.

Weather Conditions:
Sunny, 5°C

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
1/29/2025 8:35 AM	00:00	6.57 pH	17.77 °C	439.34 µS/cm	2.64 mg/L		67.3 mV	11.96 ft	600.00 ml/min
1/29/2025 8:40 AM	05:00	6.56 pH	17.99 °C	443.75 µS/cm	2.34 mg/L	27.00 NTU	78.0 mV	16.70 ft	600.00 ml/min
1/29/2025 8:45 AM	10:00	6.55 pH	18.03 °C	451.25 µS/cm	2.08 mg/L	19.00 NTU	71.5 mV	17.03 ft	600.00 ml/min
1/29/2025 8:50 AM	15:00	6.55 pH	17.87 °C	456.49 µS/cm	1.66 mg/L	14.90 NTU	75.4 mV	17.60 ft	600.00 ml/min
1/29/2025 8:55 AM	20:00	6.53 pH	17.02 °C	475.01 µS/cm	1.23 mg/L	29.10 NTU	78.7 mV	15.84 ft	200.00 ml/min
1/29/2025 9:00 AM	25:00	6.52 pH	17.09 °C	483.47 µS/cm	0.83 mg/L	20.00 NTU	84.7 mV	15.48 ft	200.00 ml/min
1/29/2025 9:05 AM	30:00	6.50 pH	17.24 °C	487.43 µS/cm	0.63 mg/L	15.50 NTU	87.0 mV	15.21 ft	200.00 ml/min
1/29/2025 9:10 AM	35:00	6.50 pH	17.16 °C	491.39 µS/cm	0.50 mg/L	11.40 NTU	85.0 mV	15.09 ft	200.00 ml/min
1/29/2025 9:15 AM	40:00	6.49 pH	17.14 °C	493.67 µS/cm	0.41 mg/L	8.43 NTU	81.8 mV	15.02 ft	200.00 ml/min
1/29/2025 9:17 AM	42:12	6.49 pH	17.34 °C	476.20 µS/cm	0.40 mg/L	7.10 NTU	83.8 mV	15.02 ft	200.00 ml/min
1/29/2025 9:29 AM	54:17	6.49 pH	17.70 °C	480.05 µS/cm	0.31 mg/L		58.9 mV	15.02 ft	200.00 ml/min

Samples

Sample ID:	Description:

B.2 Field Sampling Data

Plant Arkwright AP-2 Surface Water Samples August 12, 2024

Sample ID	Date	Time	Temp(°C)	pH	OPR (mV)	DO (mg/L)	Turbidity (NTU)	Conductance (mS/cm)	Coordinates
ARK-BC-0.8a	8/12/2024	1150	25.7	7.35	64.8	7.39	2.69	0.142	32.922739, -83.705772
ARC-BC-0.5.5	8/12/2024	1211	27.1	7.45	158.2	8.09	14.42	0.147	32.920558,-83.701663
ARC-BC-0.5.6	8/12/2024	1217	26.9	7.43	116.2	8.09	5.75	0.157	32.921139, -83.701900
ARC-BC-0.5.7	8/12/2024	1116	25.6	7.51	64.0	7.60	2.78	0.164	32.921547, -83.702854
ARC-BC-BR	8/12/2024	1043	25.1	7.55	166.1	8.45	2.20	0.156	32.920236,-83.699817

Low-Flow Test Report:

Test Date / Time: 8/20/2024 12:43:03 PM
Project: Arkwright
Operator Name: Z Levy

Location Name: ARAMW-1 **Latitude: 32.92146483904961** **Longitude: -83.70217323311017** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.44 ft** **Total Depth: 47.44 ft** **Initial Depth to Water: 13.7 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 9000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 0.35 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
HS: 0.0 mg/l

Weather Conditions:
Clear 30 degrees Celsius

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
8/20/2024 12:43 PM	00:00	6.28 pH	27.97 °C	631.33 µS/cm	0.56 mg/L	3.84 NTU	60.7 mV	14.02 ft	300.00 ml/min
8/20/2024 12:48 PM	05:00	6.25 pH	21.52 °C	697.50 µS/cm	0.12 mg/L	4.84 NTU	44.7 mV	14.04 ft	300.00 ml/min
8/20/2024 12:53 PM	10:00	6.30 pH	20.87 °C	697.76 µS/cm	0.10 mg/L	4.87 NTU	38.3 mV	14.05 ft	300.00 ml/min
8/20/2024 12:58 PM	15:00	6.28 pH	20.67 °C	700.31 µS/cm	0.08 mg/L	3.63 NTU	36.5 mV	14.05 ft	300.00 ml/min
8/20/2024 1:03 PM	20:00	6.15 pH	20.82 °C	698.54 µS/cm	0.08 mg/L	3.40 NTU	36.4 mV	14.05 ft	300.00 ml/min
8/20/2024 1:08 PM	25:00	6.15 pH	20.83 °C	696.21 µS/cm	0.08 mg/L	2.75 NTU	36.9 mV	14.05 ft	300.00 ml/min
8/20/2024 1:13 PM	30:00	6.13 pH	20.83 °C	704.19 µS/cm	0.07 mg/L	2.27 NTU	37.6 mV	14.05 ft	300.00 ml/min

Samples

Sample ID:	Description:

ARK-ARAMW-1	@ 1315 9 bottles Radium TDS Metals Dissolved metals Nitrate/nitrite Alkalinity Anions

Low-Flow Test Report:

Test Date / Time: 8/20/2024 11:11:50 AM
Project: Arkwright
Operator Name: Z Levy

Location Name: ARAMW-2 **Latitude: 32.92137481740955** **Longitude: -83.70216233663605** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.2 ft** **Total Depth: 25.2 ft** **Initial Depth to Water: 13.82 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 20 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
Sulfide: 0.0 mg/l

Weather Conditions:
Clear 27 degrees Celsius

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
8/20/2024 11:11 AM	00:00	6.09 pH	21.72 °C	700.19 µS/cm	0.12 mg/L	11.20 NTU	46.2 mV	13.84 ft	200.00 ml/min
8/20/2024 11:16 AM	05:00	6.08 pH	21.63 °C	698.41 µS/cm	0.11 mg/L	10.40 NTU	44.0 mV	13.85 ft	200.00 ml/min
8/20/2024 11:21 AM	10:00	6.09 pH	21.58 °C	695.94 µS/cm	0.12 mg/L	8.29 NTU	44.4 mV	13.85 ft	200.00 ml/min
8/20/2024 11:26 AM	15:00	6.08 pH	21.58 °C	689.11 µS/cm	0.12 mg/L	7.50 NTU	44.6 mV	13.85 ft	200.00 ml/min
8/20/2024 11:31 AM	20:00	6.09 pH	21.58 °C	698.81 µS/cm	0.13 mg/L	4.70 NTU	43.8 mV	13.85 ft	200.00 ml/min
8/20/2024 11:36 AM	25:00	6.08 pH	21.61 °C	693.87 µS/cm	0.13 mg/L	2.85 NTU	44.2 mV	13.85 ft	200.00 ml/min
8/20/2024 11:41 AM	30:00	6.08 pH	21.67 °C	701.90 µS/cm	0.12 mg/L	2.55 NTU	44.4 mV	13.85 ft	200.00 ml/min

Samples

Sample ID:	Description:

ARK-ARAMW-2	@ 1145 9 bottles Alkalinity Anions TDS Nitrate/nitrite Radium Metals Dissolved metals

Low-Flow Test Report:

Test Date / Time: 8/20/2024 12:30:04 PM
Project: Arkwright
Operator Name: Dylan Quintal

Location Name: Arkwright, AP-2, ARAMW-7 **Latitude: 32.93105095141628** **Longitude: -83.70962745418582** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 40.4 ft** **Total Depth: 50.7 ft** **Initial Depth to Water: 13.29 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 45.4 ft** **Estimated Total Volume Pumped: 4500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
Pump speed: 1
Hydrogen sulfide: 0.0 mg/L

Weather Conditions:
Sunny, 85F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/20/2024 12:30 PM	00:00	5.65 pH	20.61 °C	1,799.4 µS/cm	0.82 mg/L	7.17 NTU	91.4 mV	13.29 ft	150.00 ml/min
8/20/2024 12:35 PM	05:00	5.64 pH	20.66 °C	1,801.1 µS/cm	0.74 mg/L	4.89 NTU	97.4 mV	13.29 ft	150.00 ml/min
8/20/2024 12:40 PM	10:00	5.64 pH	20.48 °C	1,781.8 µS/cm	0.66 mg/L	3.77 NTU	88.1 mV	13.29 ft	150.00 ml/min
8/20/2024 12:45 PM	15:00	5.64 pH	20.39 °C	1,781.5 µS/cm	0.59 mg/L	3.79 NTU	87.2 mV	13.29 ft	150.00 ml/min
8/20/2024 12:50 PM	20:00	5.63 pH	20.42 °C	1,793.7 µS/cm	0.30 mg/L	2.84 NTU	86.0 mV	13.29 ft	150.00 ml/min
8/20/2024 12:55 PM	25:00	5.63 pH	20.21 °C	1,784.3 µS/cm	0.29 mg/L	2.13 NTU	85.8 mV	13.29 ft	150.00 ml/min
8/20/2024 1:00 PM	30:00	5.62 pH	20.38 °C	1,782.2 µS/cm	0.28 mg/L	2.95 NTU	86.2 mV	13.29 ft	150.00 ml/min

Samples

Sample ID:	Description:
ARK-ARAMW-7	9 bottles at 1305: Metals, field filtered dissolved metals, anions, TDS, nitrate/nitrite, alkalinity, radium.

ARK-AP2-FB-03	7 bottles at 1200: Metals, Anions, TDS, Nitrate/Nitrite, Radium

Low-Flow Test Report:

Test Date / Time: 8/20/2024 9:04:18 AM
Project: Arkwright
Operator Name: J. Bankston

Location Name: Arkwright ARAMW-8 **Latitude: 32.921361374918874** **Longitude: -83.7019107713522** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 39.54 ft** **Total Depth: 49.54 ft** **Initial Depth to Water: 12.33 ft**	**Pump Type: Peristaltic pump** **Tubing Type: LDPE** **Pump Intake From TOC: 44.5 ft** **Estimated Total Volume Pumped: 2500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 3.4 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080306**

Test Notes:

Heron dipper-T SN 11DF2206168HB
H2S: 0.0 mg/L

Weather Conditions:
Sunny 80F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/20/2024 9:04 AM	00:00	6.47 pH	22.53 °C	672.33 µS/cm	4.66 mg/L	7.05 NTU	238.8 mV	12.97 ft	100.00 ml/min
8/20/2024 9:09 AM	05:00	6.49 pH	22.53 °C	678.49 µS/cm	4.18 mg/L	2.95 NTU	251.3 mV	13.52 ft	100.00 ml/min
8/20/2024 9:14 AM	10:00	6.48 pH	22.75 °C	665.06 µS/cm	3.51 mg/L	14.16 NTU	306.6 mV	13.52 ft	100.00 ml/min
8/20/2024 9:19 AM	15:00	6.48 pH	23.00 °C	663.83 µS/cm	3.13 mg/L	4.11 NTU	301.5 mV	14.68 ft	100.00 ml/min
8/20/2024 9:24 AM	20:00	6.47 pH	23.29 °C	662.11 µS/cm	2.93 mg/L	3.67 NTU	223.7 mV	15.04 ft	100.00 ml/min
8/20/2024 9:29 AM	25:00	6.47 pH	23.46 °C	654.96 µS/cm	2.84 mg/L	2.79 NTU	254.3 mV	15.73 ft	100.00 ml/min

Samples

Sample ID:	Description:

ARK-ARAMW-8	Sample Time:0935 ; 9 bottles: Metals, Radiologicals,Anions, TDS, Alkalinity,Nitrate/Nitrite Fe2+/Mn2+
ARK-AP2-FD-03	7 bottles: Metals, Radiologicals,Anions, TDS, Alkalinity,Nitrate/Nitrite Fe2+/Mn2+

Low-Flow Test Report:

Test Date / Time: 8/20/2024 11:24:33 AM
Project: Arkwright
Operator Name: J.Myer

Location Name: AP2-ARAMW-9 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 94.5 ft** **Total Depth: 105.55 ft** **Initial Depth to Water: 7.9 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 100.4 ft** **Estimated Total Volume Pumped: 2000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 3.6 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:

Turbidimeter S/N: 22990D000345
WL S/N: T11DF2106090ML

Weather Conditions:
Sunny 82 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.5	
8/20/2024 11:24 AM	00:00	6.79 pH	24.96 °C	997.66 µS/cm	3.17 mg/L	3.46 NTU	-126.2 mV	8.80 ft	100.00 ml/min
8/20/2024 11:29 AM	05:00	7.72 pH	21.77 °C	1,052.3 µS/cm	0.48 mg/L	2.39 NTU	-142.9 mV	9.60 ft	100.00 ml/min
8/20/2024 11:34 AM	10:00	7.89 pH	21.44 °C	1,061.9 µS/cm	0.35 mg/L	1.47 NTU	-199.6 mV	10.20 ft	100.00 ml/min
8/20/2024 11:39 AM	15:00	7.94 pH	21.31 °C	1,059.6 µS/cm	0.27 mg/L	3.48 NTU	-153.7 mV	10.90 ft	100.00 ml/min
8/20/2024 11:44 AM	20:00	7.95 pH	21.20 °C	1,058.8 µS/cm	0.24 mg/L	3.35 NTU	-154.4 mV	11.50 ft	100.00 ml/min

Samples

Sample ID:	Description:

ARK-ARAMW-9	9 bottles filled at 1150 1 Metals 1 Dissolved Metals 1 TDS 1 Nitrate/Nitrite 1 Anions 1 Alkalinity 3 Ra-226/Ra-228

Low-Flow Test Report:

Test Date / Time: 8/20/2024 8:45:05 AM
Project: Arkwright
Operator Name: Dylan Quintal

Location Name: Arkwright, AP-2, ARGWA-19 **Latitude: 32.9237420103943** **Longitude: -83.7009420990944** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 43.1 ft** **Total Depth: 53.4 ft** **Initial Depth to Water: 29.31 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 47.7 ft** **Estimated Total Volume Pumped: 9000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 450 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
MP-50 S/N: 12 ID: 103
Pressure: 35 psi Hydrogen
sulfide: 0.0 mg/L

Weather Conditions:
Clear, 73F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/20/2024 8:45 AM	00:00	5.94 pH	19.94 °C	120.25 µS/cm	4.03 mg/L	1.14 NTU	104.3 mV	29.31 ft	450.00 ml/min
8/20/2024 8:50 AM	05:00	5.92 pH	20.05 °C	120.49 µS/cm	4.08 mg/L	0.69 NTU	93.8 mV	29.31 ft	450.00 ml/min
8/20/2024 8:55 AM	10:00	5.92 pH	20.14 °C	120.12 µS/cm	4.11 mg/L	0.90 NTU	89.0 mV	29.31 ft	450.00 ml/min
8/20/2024 9:00 AM	15:00	5.93 pH	20.25 °C	119.86 µS/cm	4.13 mg/L	0.60 NTU	91.5 mV	29.31 ft	450.00 ml/min
8/20/2024 9:05 AM	20:00	5.93 pH	20.32 °C	121.05 µS/cm	4.15 mg/L	0.48 NTU	119.7 mV	29.31 ft	450.00 ml/min

Samples

Sample ID:	Description:
ARK-ARGWA-19	9 bottles at 0910: Metals, dissolved metals, anions, TDS, Nitrate/Nitrite, Alkalinity, Radium

Low-Flow Test Report:

Test Date / Time: 8/20/2024 8:54:59 AM
Project: Arkwright
Operator Name: Z Levy

Location Name: ARGWA-20 **Latitude: 32.912241627008285** **Longitude: -83.69827996805736** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 28.1 ft** **Total Depth: 38.4 ft** **Initial Depth to Water: 16.86 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 32.6 ft** **Estimated Total Volume Pumped: 7000 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: 989619**

Test Notes:
MP50: 21
CPM:4
ID: 103
PSI: 20
HS: 0.0 mg/l

Weather Conditions:
Clear 22 degrees Celsius

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
8/20/2024 8:54 AM	00:00	5.87 pH	19.01 °C	144.32 µS/cm	5.46 mg/L	12.60 NTU	168.5 mV	17.00 ft	200.00 ml/min
8/20/2024 8:59 AM	05:00	5.85 pH	18.75 °C	145.89 µS/cm	5.34 mg/L	11.40 NTU	147.4 mV	17.00 ft	200.00 ml/min
8/20/2024 9:04 AM	10:00	5.85 pH	18.73 °C	146.26 µS/cm	5.22 mg/L	9.01 NTU	108.2 mV	17.00 ft	200.00 ml/min
8/20/2024 9:09 AM	15:00	5.84 pH	18.73 °C	145.40 µS/cm	5.17 mg/L	6.77 NTU	136.7 mV	17.00 ft	200.00 ml/min
8/20/2024 9:14 AM	20:00	5.84 pH	18.73 °C	144.18 µS/cm	5.15 mg/L	5.86 NTU	137.3 mV	17.00 ft	200.00 ml/min
8/20/2024 9:19 AM	25:00	5.83 pH	18.73 °C	144.00 µS/cm	5.10 mg/L	4.61 NTU	137.2 mV	17.00 ft	200.00 ml/min
8/20/2024 9:24 AM	30:00	5.83 pH	18.75 °C	143.95 µS/cm	5.08 mg/L	4.13 NTU	136.9 mV	17.00 ft	200.00 ml/min
8/20/2024 9:29 AM	35:00	5.83 pH	18.78 °C	144.34 µS/cm	5.09 mg/L	4.25 NTU	137.0 mV	17.00 ft	200.00 ml/min

Samples

Sample ID:	Description:
ARK-ARGWA-20	@ 0935 9 bottles Alkalinity Anions TDS Nitrate/nitrite Radium Metals Dissolved metals

Low-Flow Test Report:

Test Date / Time: 8/20/2024 2:50:17 PM
Project: Arkwright
Operator Name: Z Levy

Location Name: ARGWC-21 **Latitude: 32.921529295885** **Longitude: -83.70217080235825** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.45 ft** **Total Depth: 27.75 ft** **Initial Depth to Water: 14.48 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 22.5 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.95 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989619**

Test Notes:
HS: 0.0 mg/l

Weather Conditions:
Clear 32 degrees Celsius

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
8/20/2024 2:50 PM	00:00	6.16 pH	27.87 °C	644.63 µS/cm	0.47 mg/L	2.39 NTU	86.9 mV	15.40 ft	200.00 ml/min
8/20/2024 2:55 PM	05:00	6.17 pH	22.11 °C	710.02 µS/cm	0.10 mg/L	2.30 NTU	85.7 mV	15.43 ft	200.00 ml/min
8/20/2024 3:00 PM	10:00	6.18 pH	21.30 °C	714.11 µS/cm	0.09 mg/L	2.06 NTU	68.6 mV	15.43 ft	200.00 ml/min
8/20/2024 3:05 PM	15:00	6.18 pH	21.27 °C	716.43 µS/cm	0.09 mg/L	2.24 NTU	65.8 mV	15.43 ft	200.00 ml/min
8/20/2024 3:10 PM	20:00	6.20 pH	21.00 °C	705.79 µS/cm	0.08 mg/L	2.01 NTU	65.0 mV	15.43 ft	200.00 ml/min

Samples

Sample ID:	Description:

ARK-ARGWC-21	@ 1515 9 bottles Radium TDS Anions Metals dissolved metals Nitrate/nitrite Alkalinity

Low-Flow Test Report:

Test Date / Time: 8/20/2024 1:35:01 PM
Project: Arkwright
Operator Name: J.Myer

Location Name: ARGWC-22 **Latitude: 32.919994493196626** **Longitude: -83.70404855901411** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.71 ft** **Total Depth: 27.71 ft** **Initial Depth to Water: 14.33 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 22.7 ft** **Estimated Total Volume Pumped: 3750 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.12 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:
MP-50 S/N: 22
ID: 103
PSI: 30
Turbidimeter S/N: 22990D000345
WL S/N: T11DF2106090ML
HS: 0.0 mg/L

Weather Conditions:
Sunny 88 F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.5	
8/20/2024 1:35 PM	00:00	5.76 pH	28.55 °C	1,245.5 µS/cm	0.95 mg/L	7.70 NTU	47.6 mV	14.45 ft	150.00 ml/min
8/20/2024 1:40 PM	05:00	5.75 pH	21.21 °C	1,387.3 µS/cm	0.13 mg/L	5.85 NTU	49.3 mV	14.45 ft	150.00 ml/min
8/20/2024 1:45 PM	10:00	5.75 pH	20.66 °C	1,397.8 µS/cm	0.10 mg/L	4.14 NTU	38.7 mV	14.45 ft	150.00 ml/min
8/20/2024 1:50 PM	15:00	5.75 pH	20.41 °C	1,394.1 µS/cm	0.09 mg/L	3.60 NTU	34.9 mV	14.45 ft	150.00 ml/min
8/20/2024 1:55 PM	20:00	5.75 pH	20.37 °C	1,390.3 µS/cm	0.08 mg/L	2.68 NTU	32.7 mV	14.45 ft	150.00 ml/min
8/20/2024 2:00 PM	25:00	5.76 pH	20.17 °C	1,381.3 µS/cm	0.08 mg/L	2.72 NTU	30.3 mV	14.45 ft	150.00 ml/min

Samples

Sample ID:	Description:

ARK-ARGWC-22	9 bottles filled at 1405 1 Metals 1 Dissolved Metals 1 Alkalinity 1 Anions 1 TDS 1 Nitrate/Nitrite 3 Ra-226/Ra-228

Low-Flow Test Report:

Test Date / Time: 8/20/2024 12:20:30 PM
Project: Arkwright
Operator Name: J. Bankston

Location Name: ARGWC-23 **Latitude: 32.92138843057751** **Longitude: -83.70193057462276** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.4 ft** **Total Depth: 28.4 ft** **Initial Depth to Water: 12.75 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 23.0 ft** **Estimated Total Volume Pumped: 2000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.91 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080306**

Test Notes:
Peristaltic S/N: 108038
ID: 43
65 PSI
Heron dipper-T SN 11DF2206168HB
H2S: 0.0 mg/L

Weather Conditions:
Sunny 85

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/20/2024 12:20 PM	00:00	6.36 pH	28.74 °C	515.85 µS/cm	0.52 mg/L	3.84 NTU	106.5 mV	13.37 ft	100.00 ml/min
8/20/2024 12:25 PM	05:00	6.34 pH	27.78 °C	513.71 µS/cm	0.39 mg/L	1.83 NTU	98.7 mV	13.59 ft	100.00 ml/min
8/20/2024 12:30 PM	10:00	6.33 pH	27.35 °C	513.96 µS/cm	0.28 mg/L	1.52 NTU	73.6 mV	13.62 ft	100.00 ml/min
8/20/2024 12:35 PM	15:00	6.33 pH	26.93 °C	514.81 µS/cm	0.34 mg/L	1.36 NTU	67.3 mV	13.65 ft	100.00 ml/min
8/20/2024 12:40 PM	20:00	6.34 pH	27.22 °C	513.79 µS/cm	0.31 mg/L	1.23 NTU	64.4 mV	13.66 ft	100.00 ml/min

Samples

Sample ID:	Description:
ARK-ARGWC-23	Sample Time: 1250; 9 bottles: Metals, Anions, TDS, Radium, Nitrate/Nitrate, Alkalinity,Fe2+/Mn2+

Low-Flow Test Report:

Test Date / Time: 8/21/2024 9:21:22 AM
Project: Arkwright
Operator Name: Dylan Quintal

Location Name: Arkwright, AP-2, STN-TW22 **Latitude: 32.921682770378** **Longitude: -83.7020793557167** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 30.38 ft** **Total Depth: 35.38 ft** **Initial Depth to Water: 34.22 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: HDPE** **Pump Intake From TOC: 35.25 ft** **Estimated Total Volume Pumped: 0 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 1.18 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
Final parameters for second day purge. collected purge water in calibration cup for low flow reading. Well purged dry and final purge water sample collected.

Weather Conditions:
Mostly sunny, 74F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/21/2024 9:21 AM	00:00	6.82 pH	24.68 °C	1,626.3 µS/cm	7.60 mg/L	173.00 NTU	-114.3 mV	34.22 ft	100.00 ml/min

Samples

Sample ID:	Description:
ARK-STN-TW22	6 bottles collected at 0845: Metals, field filtered dissolved metals, anions, TDS, alkalinity, nitrate/nitrite.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 8:42:04 AM
Project: Arkwright
Operator Name: Dylan Quintal

Location Name: Arkwright, AP-2, STN-TW22 **Latitude: 32.921682770378** **Longitude: -83.7020793557167** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 5 ft** **Top of Screen: 29.9 ft** **Total Depth: 35.4 ft** **Initial Depth to Water: 34.22 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 35.25 ft** **Estimated Total Volume Pumped: 0 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
Initial parameters for second day purge. collected purge water in calibration cup for low flow reading. Well purged dry and final purge water sample collected.

Weather Conditions:
Mostly sunny, 72F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
8/21/2024 8:42 AM	00:00	6.41 pH	23.32 °C	1,682.8 µS/cm	4.10 mg/L	142.00 NTU	-74.8 mV	34.22 ft	100.00 ml/min

Samples

Sample ID:	Description:
ARK-STN-TW22	6 bottles collected at 0845: Metals, field filtered dissolved metals, anions, TDS, alkalinity, nitrate/nitrite.

Groundwater Level Measurement Form

Project Name: Southern Company Arkwright | **Page** 1 **of** 1

Plant Name: Plant Arkwright | **Date:** 8/19/2024

Plant Address: 5001 Arkwright Road, Macon, GA 31210 | **Field Staff Names:** John Myer; Dylan Quintal; Zach Levy; Jackson Bankston

Project Number: 175569434 | **Goal/Task:** Groundwater Investigation

Gauging Start Time 8:30 | **Gauging Finish Time** 15:20

Well ID	Time	Depth to Groundwater (ft, BTOC)	Current Depth to Bottom (ft, BTOC)	Notes/Remarks
AP-2				
ARGWA-19	10:07	29.31	44.55	
ARGWA-20	10:15	16.86	29.65	
ARGWC-21	10:20	14.40	27.31	
ARGWC-22	10:07	14.25	27.72	
ARGWC-23	10:29	12.67	28.06	
ARAMW-1	10:28	13.76	45.32	
ARAMW-2	10:24	13.76	24.84	
ARAMW-7	10:02	13.26	50.80	
ARAMW-8	10:26	12.27	49.55	
ARAMW-9	10:11	8.64	NM	
STN-PZ21	10:45	37.42	NM	
STN-TW22	10:30	34.09	35.38	NA

Sampler Signatures: Jackson Bankston; John Myer; Dylan Quintal

Low-Flow Test Report:

Test Date / Time: 12/12/2024 12:36:52 PM
Project: Arkwright
Operator Name: B. Pennell

Location Name: Arkwright, AP-2, ARAMW-10 **Latitude: 32.92168737817932** **Longitude: -83.7027525120802** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 48 ft** **Total Depth: 58 ft** **Initial Depth to Water: 7.4 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.17 in** **Tubing Length: 58 ft** **Pump Intake From TOC: 53 ft** **Estimated Total Volume Pumped: 6875 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 275 ml/min** **Final Draw Down: 0.41 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082822**

Test Notes:
Sample time: 13:10.
Sulfurous odor noted during initial purge. Pre-purged well for approximately 7 mins at 275 ml/min (1.925 L).

Weather Conditions:
Sunny, 9 C

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
12/12/2024 12:36 PM	00:00	5.84 pH	18.03 °C	1,985.9 µS/cm	0.42 mg/L	1.43 NTU	-55.8 mV	7.40 ft	275.00 ml/min
12/12/2024 12:41 PM	05:00	5.84 pH	17.97 °C	1,964.7 µS/cm	0.29 mg/L	0.85 NTU	-132.8 mV	7.79 ft	275.00 ml/min
12/12/2024 12:46 PM	10:00	5.84 pH	17.92 °C	1,942.3 µS/cm	0.27 mg/L	0.68 NTU	-100.1 mV	7.80 ft	275.00 ml/min
12/12/2024 12:51 PM	15:00	5.85 pH	17.91 °C	1,920.7 µS/cm	0.26 mg/L	0.79 NTU	-99.7 mV	7.80 ft	275.00 ml/min
12/12/2024 12:56 PM	20:00	5.84 pH	17.89 °C	1,894.3 µS/cm	0.25 mg/L	0.60 NTU	-95.3 mV	7.81 ft	275.00 ml/min
12/12/2024 1:01 PM	25:00	5.84 pH	17.87 °C	1,884.4 µS/cm	0.25 mg/L	0.82 NTU	-92.4 mV	7.81 ft	275.00 ml/min

Samples

Sample ID:	Description:
ARK-ARAMW-10	9 bottles: 3 radium, TDS, anions, total metals, nitrate/nitrite, alkalinity, dissolved metals

Low-Flow Test Report:

Test Date / Time: 12/12/2024 2:39:48 PM
Project: Plant Arkwright
Operator Name: Jaiden Stidston

Location Name: Arkwright, AP-2, ARAMW-11 **Latitude: 32.9218251458034** **Longitude: -83.70279251620126** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 30.5 ft** **Total Depth: 40.5 ft** **Initial Depth to Water: 7.36 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Tubing Inner Diameter: 0.17 in** **Tubing Length: 40.5 ft** **Pump Intake From TOC: 35.5 ft** **Estimated Total Volume Pumped: 7950 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 265 ml/min** **Final Draw Down: 0.3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082822**

Test Notes:
Sample time: 15:15.
Pre-purged well for approximately 14 mins at 265 ml/min (3.71 L).

Weather Conditions:
Sunny 12C

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.33	
12/12/2024 2:39 PM	00:00	5.49 pH	17.26 °C	1,801.7 µS/cm	0.52 mg/L		72.9 mV	7.36 ft	265.00 ml/min
12/12/2024 2:44 PM	05:00	5.47 pH	17.81 °C	1,771.6 µS/cm	0.30 mg/L	5.16 NTU	39.6 mV	7.66 ft	265.00 ml/min
12/12/2024 2:49 PM	10:00	5.46 pH	18.00 °C	1,763.9 µS/cm	0.27 mg/L	4.72 NTU	24.2 mV	7.66 ft	265.00 ml/min
12/12/2024 2:54 PM	15:00	5.46 pH	17.88 °C	1,760.6 µS/cm	0.26 mg/L	4.82 NTU	20.5 mV	7.66 ft	265.00 ml/min
12/12/2024 2:59 PM	20:00	5.46 pH	17.85 °C	1,749.9 µS/cm	0.25 mg/L	3.57 NTU	18.3 mV	7.66 ft	265.00 ml/min
12/12/2024 3:04 PM	25:00	5.46 pH	17.85 °C	1,740.0 µS/cm	0.24 mg/L	3.77 NTU	16.9 mV	7.66 ft	265.00 ml/min
12/12/2024 3:09 PM	30:00	5.46 pH	17.82 °C	1,732.1 µS/cm	0.24 mg/L	3.83 NTU	16.4 mV	7.66 ft	265.00 ml/min

Samples

Sample ID:	Description:
ARK-ARAMW-11	9 bottles: 3 radium, TDS, anions, total metals, nitrates/nitrite, alkalinity, dissolved metals

Plant Arkwright AP-2 Surface Water Samples February 10-11, 2025

Sample ID	Date	Time	Temp(°C)	pH	OPR (mV)	DO (mg/L)	Turbidity (NTU)	Conductance (mS/cm)	Coordinates
ARK-BC-0.8a	02/10/25	1152	16.0	7.30	23.10	18.69	3.69	0.187	32.922739, -83.705772
ARK-BC-0.5.5	02/10/25	1200	16.7	7.27	21.63	19.48	3.19	0.208	32.920558,-83.701663
ARK-BC-0.5.6	02/10/25	1210	16.6	7.29	18.20	20.97	3.44	0.203	32.921139, -83.701900
ARK-BC-0.5.7	02/10/25	1133	16.1	7.30	27.40	19.30	3.21	0.193	32.921547, -83.702854
ARK-BC-BR	02/10/25	1108	15.9	7.30	53.10	21.13	3.57	0.207	32.920236,-83.699817

Groundwater Level Measurement Form

Project Name: Southern Company Arkwright | **Page** 1 **of** 1

Plant Name: Plant Arkwright | **Date:** 2/3/2025 & 2/4/2025

Plant Address: 5001 Arkwright Road, Macon, GA 31210 | **Field Staff Names:** D. Abuan, J. Ashe, J. Bankston, M. Moore, A. Shoredits

Project Number: 175569434 | **Goal/Task:** Groundwater Investigation

Gauging Start Time 09:15 (2/3/2025) | **Gauging Finish Time** 09:19 (2/4/2025)

Well ID	Time	Depth to Groundwater (ft, BTOC)	Current Depth to Bottom (ft, BTOC)	Notes/Remarks
AP-2				
ARGWA-19	9:15	29.58	44.45	Dedicated pump
ARGWA-20	10:30	16.92	29.75	Dedicated pump
ARGWC-21	9:33	13.17	26.47	
ARGWC-22	9:35	10.62	24.44	
ARGWC-23	9:30	11.78	28.06	
ARAMW-1	9:32	13.10	46.10	
ARAMW-2	9:31	13.32	24.86	
ARAMW-7	9:38	10.01	47.33	
ARAMW-8	9:27	11.44	49.61	
ARAMW-9	9:34	8.90	102.80	
ARAMW-10	9:42	10.94	NM	
ARAMW-11	9:40	11.06	NM	
ARAMW-12	9:25	61.85	68.82	
STN-PZ21	10:15	37.24	57.50	
STN-TW22	9:58	34.42	35.38	

Sampler Signatures:

Low-Flow Test Report:

Test Date / Time: 2/4/2025 8:59:16 AM
Project: Arkwright
Operator Name: Max Moore

Location Name: ARGWA-19 **Latitude: 32.92373619796334** **Longitude: -83.70092818799044** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 43.1 ft** **Total Depth: 53.4 ft** **Initial Depth to Water: 21.6 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 47.7 ft** **Estimated Total Volume Pumped: 10000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 400 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080306**

Test Notes:
Heron Dipper T S/N: 1080306
MP-50 S/N: T11FF2104059JH
ID: 103
PSI: 35
Hach 2100Q S/N: 22090D000235

Weather Conditions:
14°C Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10 %	+/- 0.3	
2/4/2025 8:59 AM	00:00	5.87 pH	18.85 °C	118.78 µS/cm	4.20 mg/L	0.94 NTU	158.1 mV	21.60 ft	400.00 ml/min
2/4/2025 9:04 AM	05:00	5.84 pH	18.91 °C	119.89 µS/cm	4.04 mg/L	0.77 NTU	159.2 mV	21.60 ft	400.00 ml/min
2/4/2025 9:09 AM	10:00	5.85 pH	18.91 °C	119.81 µS/cm	4.02 mg/L	0.75 NTU	147.5 mV	21.60 ft	400.00 ml/min
2/4/2025 9:14 AM	15:00	5.85 pH	18.91 °C	119.70 µS/cm	4.03 mg/L	0.67 NTU	141.4 mV	21.60 ft	400.00 ml/min
2/4/2025 9:19 AM	20:00	5.86 pH	18.96 °C	120.16 µS/cm	4.02 mg/L	0.44 NTU	137.3 mV	21.60 ft	400.00 ml/min
2/4/2025 9:24 AM	25:00	5.86 pH	18.99 °C	121.23 µS/cm	4.00 mg/L	0.50 NTU	134.1 mV	21.60 ft	400.00 ml/min

Samples

Sample ID:	Description:

ARK-ARGWA-19	8 bottle sets: 0926 3 x 1,000 mL (HNO3) - Radium 226/ 228 1 x 500 mL (unpreserved) - TDS 1 x 250 mL (unpreserved) - Anions 1 x 250 mL (HNO3) - Metals, Total 1 x 250 mL (HNO3) - Metals, Dissolved 1 x 250 mL (unpreserved) - Alkalinity

Low-Flow Test Report:

Test Date / Time: 2/4/2025 8:54:07 AM
Project: Arkwright
Operator Name: D. Abuan

Location Name: ARGWA-20 **Latitude: 32.92360273077968** **Longitude: -83.7023925290602** **Well Diameter: 2 cm** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 28.1 ft** **Total Depth: 38.4 ft** **Initial Depth to Water: 16.89 ft**	**Pump Type: Dedicated Bladder Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 32.5 ft** **Estimated Total Volume Pumped: 57715.668 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 260 ml/min** **Final Draw Down: 0.12 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Aqua Troll 400
1080307
HACH
23060D000334

Weather Conditions:
14°C clear

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
2/4/2025 8:54 AM	00:00	5.66 pH	17.28 °C	145.78 µS/cm	4.95 mg/L	57.40 NTU	202.8 mV	16.89 ft	260.00 ml/min
2/4/2025 8:59 AM	05:00	5.65 pH	17.30 °C	150.32 µS/cm	4.93 mg/L	55.90 NTU	170.7 mV	17.02 ft	260.00 ml/min
2/4/2025 9:04 AM	10:00	5.66 pH	17.27 °C	150.85 µS/cm	4.92 mg/L	53.70 NTU	164.1 mV	17.05 ft	260.00 ml/min
2/4/2025 9:09 AM	15:00	5.66 pH	17.18 °C	152.76 µS/cm	4.95 mg/L	51.00 NTU	211.9 mV	17.05 ft	260.00 ml/min
2/4/2025 9:14 AM	20:00	5.67 pH	17.18 °C	152.32 µS/cm	4.97 mg/L	45.70 NTU	160.1 mV	17.04 ft	260.00 ml/min
2/4/2025 9:19 AM	25:00	5.67 pH	17.22 °C	153.39 µS/cm	4.98 mg/L	40.50 NTU	207.6 mV	17.04 ft	260.00 ml/min
2/4/2025 9:23 AM	29:50	5.68 pH	17.44 °C	150.08 µS/cm	4.96 mg/L	35.70 NTU	161.6 mV	17.04 ft	260.00 ml/min
2/4/2025 9:28 AM	34:50	5.68 pH	17.45 °C	152.52 µS/cm	4.97 mg/L	33.00 NTU	155.0 mV	17.04 ft	260.00 ml/min
2/4/2025 9:33 AM	39:50	5.68 pH	17.48 °C	153.33 µS/cm	4.98 mg/L	27.00 NTU	203.0 mV	17.04 ft	260.00 ml/min
2/4/2025 9:38 AM	44:50	5.68 pH	17.38 °C	153.62 µS/cm	5.00 mg/L	27.00 NTU	202.2 mV	17.03 ft	260.00 ml/min
2/4/2025 9:43 AM	49:50	5.68 pH	17.37 °C	153.00 µS/cm	5.01 mg/L	26.80 NTU	200.5 mV	17.05 ft	260.00 ml/min

2/4/2025 9:48 AM	54:50	5.69 pH	17.37 °C	153.37 µS/cm	5.02 mg/L	24.80 NTU	199.4 mV	17.05 ft	260.00 ml/min
2/4/2025 9:53 AM	59:50	5.69 pH	17.40 °C	148.58 µS/cm	5.17 mg/L	24.00 NTU	198.4 mV	17.05 ft	260.00 ml/min
2/4/2025 9:58 AM	01:04:50	5.70 pH	17.39 °C	143.88 µS/cm	5.11 mg/L	20.60 NTU	149.1 mV	17.04 ft	260.00 ml/min
2/4/2025 10:03 AM	01:09:50	5.69 pH	17.44 °C	146.90 µS/cm	5.08 mg/L	19.30 NTU	196.5 mV	17.03 ft	260.00 ml/min
2/4/2025 10:08 AM	01:14:50	5.69 pH	17.44 °C	146.90 µS/cm	5.05 mg/L	17.80 NTU	196.1 mV	17.05 ft	260.00 ml/min
2/4/2025 10:13 AM	01:19:50	5.70 pH	17.46 °C	144.33 µS/cm	5.04 mg/L	18.30 NTU	195.1 mV	17.05 ft	260.00 ml/min
2/4/2025 10:18 AM	01:24:50	5.70 pH	17.52 °C	144.26 µS/cm	5.03 mg/L	18.70 NTU	194.2 mV	17.04 ft	260.00 ml/min
2/4/2025 10:23 AM	01:29:50	5.70 pH	17.59 °C	150.28 µS/cm	5.01 mg/L	17.10 NTU	193.6 mV	17.03 ft	260.00 ml/min
2/4/2025 10:28 AM	01:34:50	5.70 pH	17.59 °C	149.84 µS/cm	5.02 mg/L	16.20 NTU	193.2 mV	17.03 ft	260.00 ml/min
2/4/2025 10:33 AM	01:39:50	5.70 pH	17.63 °C	149.22 µS/cm	5.01 mg/L	16.60 NTU	192.5 mV	17.03 ft	260.00 ml/min
2/4/2025 10:38 AM	01:44:50	5.70 pH	17.72 °C	148.74 µS/cm	5.00 mg/L	17.20 NTU	191.7 mV	17.03 ft	260.00 ml/min
2/4/2025 10:43 AM	01:49:50	5.70 pH	17.80 °C	148.46 µS/cm	4.98 mg/L	15.90 NTU	191.4 mV	17.02 ft	260.00 ml/min
2/4/2025 10:48 AM	01:54:50	5.70 pH	18.18 °C	147.51 µS/cm	4.93 mg/L	15.70 NTU	190.8 mV	17.03 ft	260.00 ml/min
2/4/2025 10:53 AM	01:59:50	5.70 pH	18.16 °C	148.10 µS/cm	4.94 mg/L	15.30 NTU	190.3 mV	17.03 ft	260.00 ml/min
2/4/2025 10:58 AM	02:04:50	5.70 pH	18.16 °C	147.80 µS/cm	4.94 mg/L	14.80 NTU	189.8 mV	17.01 ft	260.00 ml/min
2/4/2025 11:03 AM	02:09:50	5.70 pH	18.39 °C	147.05 µS/cm	4.91 mg/L	14.70 NTU	188.9 mV	17.01 ft	260.00 ml/min
2/4/2025 11:08 AM	02:14:50	5.70 pH	18.19 °C	147.18 µS/cm	4.93 mg/L	14.30 NTU	188.8 mV	17.01 ft	260.00 ml/min
2/4/2025 11:13 AM	02:19:50	5.70 pH	18.25 °C	147.34 µS/cm	4.94 mg/L	13.90 NTU	188.0 mV	17.00 ft	260.00 ml/min
2/4/2025 11:18 AM	02:24:50	5.70 pH	18.12 °C	147.04 µS/cm	4.95 mg/L	13.70 NTU	187.9 mV	17.01 ft	260.00 ml/min
2/4/2025 11:23 AM	02:29:50	5.70 pH	18.16 °C	146.57 µS/cm	4.94 mg/L	12.70 NTU	187.4 mV	17.01 ft	260.00 ml/min
2/4/2025 11:28 AM	02:34:50	5.70 pH	18.20 °C	146.39 µS/cm	4.94 mg/L	12.40 NTU	187.1 mV	17.02 ft	260.00 ml/min
2/4/2025 11:33 AM	02:39:50	5.70 pH	18.23 °C	146.33 µS/cm	4.91 mg/L	12.00 NTU	186.2 mV	17.01 ft	260.00 ml/min
2/4/2025 11:38 AM	02:44:50	5.71 pH	18.30 °C	146.09 µS/cm	4.92 mg/L	12.40 NTU	185.6 mV	17.01 ft	260.00 ml/min
2/4/2025 11:43 AM	02:49:50	5.71 pH	18.64 °C	145.13 µS/cm	4.89 mg/L	13.70 NTU	185.3 mV	17.01 ft	260.00 ml/min
2/4/2025 11:48 AM	02:54:50	5.70 pH	18.64 °C	145.10 µS/cm	4.88 mg/L	13.60 NTU	185.2 mV	17.01 ft	260.00 ml/min
2/4/2025 11:53 AM	02:59:50	5.70 pH	18.63 °C	144.50 µS/cm	4.89 mg/L	13.70 NTU	185.1 mV	17.01 ft	260.00 ml/min
2/4/2025 11:58 AM	03:04:50	5.71 pH	18.64 °C	144.44 µS/cm	4.87 mg/L	13.80 NTU	184.1 mV	17.02 ft	260.00 ml/min
2/4/2025 12:03 PM	03:09:50	5.71 pH	18.70 °C	143.90 µS/cm	4.92 mg/L	13.70 NTU	183.9 mV	17.02 ft	260.00 ml/min
2/4/2025 12:06 PM	03:11:59	5.71 pH	18.78 °C	140.36 µS/cm	4.87 mg/L	13.20 NTU	152.7 mV	17.02 ft	260.00 ml/min

2/4/2025 12:11 PM	03:16:59	5.71 pH	18.76 °C	142.31 µS/cm	4.89 mg/L	13.50 NTU	183.1 mV	17.01 ft	260.00 ml/min
2/4/2025 12:16 PM	03:21:59	5.71 pH	19.08 °C	143.99 µS/cm	4.88 mg/L	13.80 NTU	182.8 mV	17.01 ft	260.00 ml/min
2/4/2025 12:21 PM	03:26:59	5.71 pH	19.05 °C	143.67 µS/cm	4.88 mg/L	14.00 NTU	182.9 mV	17.01 ft	260.00 ml/min
2/4/2025 12:26 PM	03:31:59	5.71 pH	19.05 °C	143.86 µS/cm	4.91 mg/L	13.00 NTU	182.5 mV	17.01 ft	260.00 ml/min
2/4/2025 12:31 PM	03:36:59	5.71 pH	18.92 °C	143.34 µS/cm	4.91 mg/L	12.40 NTU	182.0 mV	17.01 ft	260.00 ml/min
2/4/2025 12:36 PM	03:41:59	5.71 pH	19.05 °C	142.39 µS/cm	4.90 mg/L	11.70 NTU	181.5 mV	17.01 ft	260.00 ml/min

Samples

Sample ID:	Description:
ARK-ARGWA-20	Filtered sample due to turbidity > 10 NTU TIME: 1240 8 bottles 3 x 1,000 mL (HNO3) - Radium 226/228 1 x 500 mL (unpreserved) - TDS 1 x 250 mL (unpreserved) - Anions 1 x 250 mL (unpreserved) - Alkalinity 1 x 250 mL (HNO3) - Metals

Low-Flow Test Report:

Test Date / Time: 2/4/2025 4:51:53 PM
Project: Arkwright
Operator Name: Jackson Bankston

Location Name: ARGWC-21 **Latitude: 32.92146834035221** **Longitude: -83.70602687063857** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.4 ft** **Total Depth: 27.4 ft** **Initial Depth to Water: 13.31 ft**	**Pump Type: Peristaltic pump** **Tubing Type: LDPE** **Pump Intake From TOC: 22.4 ft** **Estimated Total Volume Pumped: 11250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.66 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:
Pump SN: 24051
Turbidimeter SN: 23100D000373
Heron Dipper-T 24072

Weather Conditions:
Sunny 25°C

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
2/4/2025 4:51 PM	00:00	6.02 pH	21.10 °C	758.30 µS/cm	0.92 mg/L	12.10 NTU	97.0 mV	13.61 ft	250.00 ml/min
2/4/2025 4:56 PM	05:00	6.01 pH	19.92 °C	770.90 µS/cm	0.39 mg/L	11.50 NTU	99.4 mV	13.82 ft	250.00 ml/min
2/4/2025 5:01 PM	10:00	6.01 pH	19.79 °C	769.39 µS/cm	0.29 mg/L	10.60 NTU	101.4 mV	13.94 ft	250.00 ml/min
2/4/2025 5:06 PM	15:00	6.01 pH	19.64 °C	770.00 µS/cm	0.23 mg/L	9.76 NTU	93.2 mV	13.95 ft	250.00 ml/min
2/4/2025 5:11 PM	20:00	6.01 pH	19.59 °C	769.12 µS/cm	0.20 mg/L	8.85 NTU	80.5 mV	13.95 ft	250.00 ml/min
2/4/2025 5:16 PM	25:00	6.02 pH	19.54 °C	767.40 µS/cm	0.17 mg/L	7.83 NTU	73.7 mV	13.96 ft	250.00 ml/min
2/4/2025 5:21 PM	30:00	6.02 pH	19.47 °C	766.99 µS/cm	0.16 mg/L	6.27 NTU	69.4 mV	13.96 ft	250.00 ml/min
2/4/2025 5:26 PM	35:00	6.02 pH	19.41 °C	765.35 µS/cm	0.15 mg/L	5.17 NTU	66.5 mV	13.96 ft	250.00 ml/min
2/4/2025 5:31 PM	40:00	6.02 pH	19.40 °C	764.28 µS/cm	0.15 mg/L	7.12 NTU	72.2 mV	13.96 ft	250.00 ml/min
2/4/2025 5:36 PM	45:00	6.02 pH	19.35 °C	762.98 µS/cm	0.13 mg/L	3.72 NTU	57.2 mV	13.97 ft	250.00 ml/min

Samples

Sample ID:	Description:
ARK-ARGWC-21	1740 8 bottle sets: 3 x 1,000 mL (HNO3) - Radium 226/ 228 1 x 500 mL (unpreserved) - TDS 1 x 250 mL (unpreserved) - Anions 1 x 250 mL (HNO3) - Metals, Total 1 x 250 mL (HNO3) - Metals, Dissolved 1 x 250 mL (unpreserved) - Alkalinity
ARK-AP2-FB-04	1715 8 bottle sets: 3 x 1,000 mL (HNO3) - Radium 226/ 228 1 x 500 mL (unpreserved) - TDS 1 x 250 mL (unpreserved) - Anions 1 x 250 mL (HNO3) - Metals, Total 1 x 250 mL (HNO3) - Metals, Dissolved 1 x 250 mL (unpreserved) - Alkalinity
ARK-AP2-FD-04	8 bottle sets: 3 x 1,000 mL (HNO3) - Radium 226/ 228 1 x 500 mL (unpreserved) - TDS 1 x 250 mL (unpreserved) - Anions 1 x 250 mL (HNO3) - Metals, Total 1 x 250 mL (HNO3) - Metals, Dissolved 1 x 250 mL (unpreserved) - Alkalinity

Low-Flow Test Report:

Test Date / Time: 2/4/2025 2:25:40 PM
Project: Arkwright
Operator Name: D Abuan

Location Name: ARGWC-22 **Latitude: 32.921676043586224** **Longitude: -83.70267753218657** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.71 ft** **Total Depth: 27.7 ft** **Initial Depth to Water: 10.8 ft**	**Pump Type: Peristaltic pump** **Tubing Type: LDPE** **Pump Intake From TOC: 22.7 ft** **Estimated Total Volume Pumped: 12000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.18 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Aqua Troll 400
1080307
HACH
23060D000334
Peristaltic pump setting 23.0

Weather Conditions:
25°C clear

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
2/4/2025 2:25 PM	00:00	5.63 pH	23.96 °C	1,387.3 µS/cm	1.86 mg/L	11.40 NTU	124.2 mV	10.80 ft	150.00 ml/min
2/4/2025 2:30 PM	05:00	5.63 pH	19.45 °C	1,481.1 µS/cm	0.52 mg/L	13.50 NTU	90.7 mV	10.95 ft	150.00 ml/min
2/4/2025 2:35 PM	10:00	5.66 pH	19.16 °C	1,460.5 µS/cm	0.37 mg/L	19.80 NTU	95.7 mV	10.95 ft	150.00 ml/min
2/4/2025 2:40 PM	15:00	5.72 pH	19.19 °C	1,415.2 µS/cm	0.29 mg/L	22.80 NTU	99.0 mV	10.96 ft	150.00 ml/min
2/4/2025 2:45 PM	20:00	5.73 pH	19.27 °C	1,391.2 µS/cm	0.24 mg/L	23.70 NTU	105.2 mV	10.95 ft	150.00 ml/min
2/4/2025 2:50 PM	25:00	5.74 pH	19.30 °C	1,390.4 µS/cm	0.22 mg/L	25.80 NTU	127.0 mV	10.95 ft	150.00 ml/min
2/4/2025 2:55 PM	30:00	5.74 pH	19.29 °C	1,390.6 µS/cm	0.20 mg/L	21.80 NTU	109.1 mV	10.94 ft	150.00 ml/min
2/4/2025 3:00 PM	35:00	5.74 pH	19.37 °C	1,402.7 µS/cm	0.19 mg/L	17.90 NTU	109.3 mV	10.96 ft	150.00 ml/min
2/4/2025 3:05 PM	40:00	5.73 pH	19.35 °C	1,392.2 µS/cm	0.18 mg/L	14.80 NTU	136.4 mV	10.95 ft	150.00 ml/min
2/4/2025 3:10 PM	45:00	5.74 pH	19.27 °C	1,390.1 µS/cm	0.17 mg/L	13.50 NTU	138.6 mV	10.95 ft	150.00 ml/min

2/4/2025 3:15 PM	50:00	5.74 pH	19.30 °C	1,395.2 µS/cm	0.16 mg/L	12.20 NTU	114.2 mV	10.96 ft	150.00 ml/min
2/4/2025 3:20 PM	55:00	5.74 pH	19.39 °C	1,389.3 µS/cm	0.15 mg/L	11.00 NTU	115.2 mV	10.96 ft	150.00 ml/min
2/4/2025 3:25 PM	01:00:00	5.76 pH	19.26 °C	1,376.4 µS/cm	0.15 mg/L	9.96 NTU	128.8 mV	10.97 ft	150.00 ml/min
2/4/2025 3:30 PM	01:05:00	5.73 pH	19.22 °C	1,395.8 µS/cm	0.15 mg/L	7.93 NTU	117.8 mV	10.98 ft	150.00 ml/min
2/4/2025 3:35 PM	01:10:00	5.72 pH	19.28 °C	1,391.8 µS/cm	0.14 mg/L	6.22 NTU	140.6 mV	10.98 ft	150.00 ml/min
2/4/2025 3:40 PM	01:15:00	5.71 pH	19.28 °C	1,397.3 µS/cm	0.14 mg/L	5.47 NTU	120.9 mV	10.98 ft	150.00 ml/min
2/4/2025 3:45 PM	01:20:00	5.73 pH	19.25 °C	1,389.9 µS/cm	0.14 mg/L	4.92 NTU	113.4 mV	10.98 ft	150.00 ml/min

Samples

Sample ID:	Description:
ARK-ARGWC-22	Time 1550 8 bottles 3 x 1,000 mL (HNO3) - Radium 226/ 228 1 x 500 mL (unpreserved) - TDS 1 x 250 mL (unpreserved) - Anions 1 x 250 mL (HNO3) - Metals, Total 1 x 250 mL (HNO3) - Metals, Dissolved 1 x 250 mL (unpreserved) - Alkalinity
AP2-EB-03	Time 1615 6 bottles 3 x 1,000 mL (HNO3) - Radium 226/ 228 1 x 500 mL (unpreserved) - TDS 1 x 250 mL (unpreserved) - Anions 1 x 250 mL (HNO3) - Metals

Low-Flow Test Report:

Test Date / Time: 2/4/2025 10:53:21 AM
Project: Arkwright
Operator Name: Max Moore

Location Name: ARGWC-23 **Latitude: 32.921295874439345** **Longitude: -83.70190622489018** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.4 ft** **Total Depth: 28.4 ft** **Initial Depth to Water: 13.01 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 50.5 ft** **Estimated Total Volume Pumped: 4500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 180 ml/min** **Final Draw Down: 0.49 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080306**

Test Notes:
Heron Dipper T S/N: 1080306
Peristaltic Pump: 1430
Hach 2100Q S/N: 22090D000235

Weather Conditions:
20°C Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10 %	+/- 0.3	
2/4/2025 10:53 AM	00:00	6.42 pH	21.13 °C	502.92 µS/cm	0.56 mg/L	1.94 NTU	113.6 mV	13.01 ft	180.00 ml/min
2/4/2025 10:58 AM	05:00	6.42 pH	21.22 °C	496.20 µS/cm	0.48 mg/L	1.43 NTU	86.3 mV	13.34 ft	180.00 ml/min
2/4/2025 11:03 AM	10:00	6.43 pH	21.34 °C	499.65 µS/cm	0.43 mg/L	0.97 NTU	57.8 mV	13.38 ft	180.00 ml/min
2/4/2025 11:08 AM	15:00	6.43 pH	21.45 °C	499.10 µS/cm	0.38 mg/L	0.52 NTU	52.1 mV	13.45 ft	180.00 ml/min
2/4/2025 11:13 AM	20:00	6.42 pH	21.63 °C	499.65 µS/cm	0.34 mg/L	0.62 NTU	49.6 mV	13.46 ft	180.00 ml/min
2/4/2025 11:18 AM	25:00	6.42 pH	21.66 °C	499.76 µS/cm	0.31 mg/L	0.80 NTU	47.7 mV	13.50 ft	180.00 ml/min

Samples

Sample ID:	Description:

ARK-ARGWC-23	8 bottle sets: @ 1120 3 x 1,000 mL (HNO3) - Radium 226/ 228 1 x 500 mL (unpreserved) - TDS 1 x 250 mL (unpreserved) - Anions 1 x 250 mL (HNO3) - Metals, Total 1 x 250 mL (HNO3) - Metals, Dissolved 1 x 250 mL (unpreserved) - Alkalinity
ARK-AP2-FD-03	8 bottle sets: 3 x 1,000 mL (HNO3) - Radium 226/ 228 1 x 500 mL (unpreserved) - TDS 1 x 250 mL (unpreserved) - Anions 1 x 250 mL (HNO3) - Metals, Total 1 x 250 mL (HNO3) - Metals, Dissolved 1 x 250 mL (unpreserved) - Alkalinity

Low-Flow Test Report:

Test Date / Time: 2/4/2025 12:31:09 PM
Project: Arkwright
Operator Name: Jackson Bankston

Location Name: ARAMW-1 **Latitude: 32.92022705** **Longitude: -83.70386505** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.44 ft** **Total Depth: 47.44 ft** **Initial Depth to Water: 13.39 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 22850 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 0.16 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:
Pump SN: 24051
Turbidimeter SN: 23100D000373
Heron Dipper-T 24072

Weather Conditions:
Sunny 22°C

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
2/4/2025 12:31 PM	00:00	6.13 pH	20.58 °C	761.26 µS/cm	0.21 mg/L	4.02 NTU	-42.9 mV	13.45 ft	300.00 ml/min
2/4/2025 12:36 PM	05:00	6.13 pH	20.48 °C	759.51 µS/cm	0.15 mg/L	3.26 NTU	-48.9 mV	13.47 ft	300.00 ml/min
2/4/2025 12:41 PM	10:00	6.13 pH	20.49 °C	756.29 µS/cm	0.14 mg/L	3.49 NTU	-47.4 mV	13.47 ft	300.00 ml/min
2/4/2025 12:46 PM	15:00	6.12 pH	20.64 °C	755.32 µS/cm	0.13 mg/L	4.25 NTU	-44.8 mV	13.52 ft	300.00 ml/min
2/4/2025 12:51 PM	20:00	6.11 pH	20.61 °C	755.19 µS/cm	0.12 mg/L	3.79 NTU	-41.8 mV	13.53 ft	300.00 ml/min
2/4/2025 12:52 PM	21:10	6.11 pH	20.66 °C	751.93 µS/cm	0.11 mg/L	1.71 NTU	-37.4 mV	13.53 ft	300.00 ml/min
2/4/2025 12:57 PM	26:10	6.10 pH	20.61 °C	757.09 µS/cm	0.11 mg/L	2.41 NTU	-42.7 mV	13.55 ft	300.00 ml/min
2/4/2025 1:02 PM	31:10	6.10 pH	20.66 °C	753.88 µS/cm	0.10 mg/L	1.21 NTU	-37.8 mV	13.55 ft	300.00 ml/min
2/4/2025 1:07 PM	36:10	6.09 pH	20.62 °C	751.53 µS/cm	0.10 mg/L	1.39 NTU	-34.6 mV	13.55 ft	300.00 ml/min
2/4/2025 1:12 PM	41:10	6.09 pH	20.65 °C	752.09 µS/cm	0.10 mg/L	0.75 NTU	-31.9 mV	13.55 ft	300.00 ml/min
2/4/2025 1:17 PM	46:10	6.09 pH	20.71 °C	748.96 µS/cm	0.10 mg/L	0.64 NTU	-28.8 mV	13.55 ft	300.00 ml/min
2/4/2025 1:22 PM	51:10	6.09 pH	20.69 °C	744.78 µS/cm	0.10 mg/L	0.46 NTU	-25.8 mV	13.55 ft	300.00 ml/min

2/4/2025 1:27 PM	56:10	6.09 pH	20.72 °C	745.77 µS/cm	0.09 mg/L	0.23 NTU	-22.0 mV	13.55 ft	300.00 ml/min
2/4/2025 1:32 PM	01:01:10	6.09 pH	20.69 °C	740.17 µS/cm	0.08 mg/L	0.65 NTU	-20.1 mV	13.55 ft	300.00 ml/min
2/4/2025 1:37 PM	01:06:10	6.08 pH	20.70 °C	741.28 µS/cm	0.08 mg/L	0.20 NTU	-19.2 mV	13.55 ft	300.00 ml/min
2/4/2025 1:42 PM	01:11:10	6.09 pH	20.66 °C	732.03 µS/cm	0.07 mg/L	0.62 NTU	-16.5 mV	13.55 ft	300.00 ml/min
2/4/2025 1:47 PM	01:16:10	6.08 pH	20.66 °C	732.35 µS/cm	0.07 mg/L	0.18 NTU	-15.7 mV	13.55 ft	300.00 ml/min

Samples

Sample ID:	Description:
ARK-ARAMW-1	13:55 8 bottle sets: 3 x 1,000 mL (HNO3) - Radium 226/ 228 1 x 500 mL (unpreserved) - TDS 1 x 250 mL (unpreserved) - Anions 1 x 250 mL (HNO3) - Metals, Total 1 x 250 mL (HNO3) - Metals, Dissolved 1 x 250 mL (unpreserved) - Alkalinity

Low-Flow Test Report:

Test Date / Time: 2/4/2025 2:41:37 PM
Project: Arkwright
Operator Name: Jackson Bankston

Location Name: ARAMW-2 **Latitude: 32.921438038184846** **Longitude: -83.70220358257382** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.2 ft** **Total Depth: 25.2 ft** **Initial Depth to Water: 13.2 ft**	**Pump Type: Peristaltic pump** **Tubing Type: LDPE** **Pump Intake From TOC: 20 ft** **Estimated Total Volume Pumped: 19050 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 210 ml/min** **Final Draw Down: 0.22 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:
Pump SN: 24051
Turbidimeter SN: 23100D000373
Heron Dipper-T SN: 24072

Weather Conditions:
Sunny 24°C

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
2/4/2025 2:41 PM	00:00	6.01 pH	20.81 °C	748.37 µS/cm	0.16 mg/L	33.20 NTU	59.6 mV	13.46 ft	250.00 ml/min
2/4/2025 2:46 PM	05:00	6.01 pH	20.47 °C	750.98 µS/cm	0.13 mg/L	36.60 NTU	73.3 mV	13.46 ft	250.00 ml/min
2/4/2025 2:51 PM	10:00	6.01 pH	20.36 °C	752.03 µS/cm	0.10 mg/L	24.80 NTU	80.5 mV	13.46 ft	250.00 ml/min
2/4/2025 2:56 PM	15:00	6.01 pH	20.46 °C	751.93 µS/cm	0.10 mg/L	20.30 NTU	106.4 mV	13.47 ft	250.00 ml/min
2/4/2025 3:01 PM	20:00	6.01 pH	20.37 °C	749.17 µS/cm	0.09 mg/L	19.50 NTU	85.3 mV	13.47 ft	250.00 ml/min
2/4/2025 3:06 PM	25:00	6.01 pH	20.27 °C	758.15 µS/cm	0.10 mg/L	17.50 NTU	106.7 mV	13.47 ft	250.00 ml/min
2/4/2025 3:11 PM	30:00	6.01 pH	20.26 °C	760.81 µS/cm	0.09 mg/L	18.80 NTU	80.4 mV	13.47 ft	210.00 ml/min
2/4/2025 3:16 PM	35:00	6.01 pH	20.40 °C	767.50 µS/cm	0.09 mg/L	14.90 NTU	76.4 mV	13.42 ft	210.00 ml/min
2/4/2025 3:21 PM	40:00	6.02 pH	20.23 °C	767.47 µS/cm	0.09 mg/L	15.00 NTU	73.6 mV	13.42 ft	210.00 ml/min
2/4/2025 3:26 PM	45:00	6.02 pH	20.12 °C	770.79 µS/cm	0.08 mg/L	13.80 NTU	71.8 mV	13.42 ft	210.00 ml/min
2/4/2025 3:31 PM	50:00	6.02 pH	20.12 °C	772.52 µS/cm	0.08 mg/L	12.00 NTU	69.6 mV	13.42 ft	210.00 ml/min
2/4/2025 3:36 PM	55:00	6.02 pH	20.16 °C	781.48 µS/cm	0.08 mg/L	11.50 NTU	68.9 mV	13.42 ft	210.00 ml/min

2/4/2025 3:41 PM	01:00:00	6.02 pH	20.14 °C	782.97 µS/cm	0.07 mg/L	9.84 NTU	66.6 mV	13.42 ft	210.00 ml/min
2/4/2025 3:46 PM	01:05:00	6.02 pH	20.17 °C	784.77 µS/cm	0.07 mg/L	8.00 NTU	64.7 mV	13.42 ft	210.00 ml/min
2/4/2025 3:51 PM	01:10:00	6.02 pH	20.04 °C	777.43 µS/cm	0.07 mg/L	7.30 NTU	64.6 mV	13.42 ft	210.00 ml/min
2/4/2025 3:56 PM	01:15:00	6.03 pH	20.03 °C	790.35 µS/cm	0.07 mg/L	7.11 NTU	62.8 mV	13.42 ft	210.00 ml/min
2/4/2025 4:01 PM	01:20:00	6.03 pH	20.08 °C	800.66 µS/cm	0.08 mg/L	6.02 NTU	60.1 mV	13.42 ft	210.00 ml/min
2/4/2025 4:06 PM	01:25:00	6.03 pH	19.99 °C	799.50 µS/cm	0.07 mg/L	4.93 NTU	59.7 mV	13.42 ft	210.00 ml/min

Samples

Sample ID:	Description:
ARK-ARAMW-2	1610 8 bottle sets: 3 x 1,000 mL (HNO3) - Radium 226/ 228 1 x 500 mL (unpreserved) - TDS 1 x 250 mL (unpreserved) - Anions 1 x 250 mL (HNO3) - Metals, Total 1 x 250 mL (HNO3) - Metals, Dissolved 1 x 250 mL (unpreserved) - Alkalinity

Low-Flow Test Report:

Test Date / Time: 2/4/2025 4:58:47 PM
Project: Arkwright
Operator Name: D. Abuan

Location Name: ARAMW-7 **Latitude: 32.92180231093293** **Longitude: -83.702874883369** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 40.4 ft** **Total Depth: 50.7 ft** **Initial Depth to Water: 10.2 ft**	**Pump Type: Peristaltic pump** **Tubing Type: LDPE** **Pump Intake From TOC: 45.4 ft** **Estimated Total Volume Pumped: 15200 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: 0.37 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Aqua Troll 400
1080307
HACH
23060D000334
Peri pump setting 27.4

Weather Conditions:
25°C sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
2/4/2025 4:58 PM	00:00	6.95 pH	22.23 °C	283.16 µS/cm	3.60 mg/L	59.60 NTU	-5.4 mV	10.20 ft	160.00 ml/min
2/4/2025 5:03 PM	05:00	7.14 pH	18.87 °C	285.28 µS/cm	0.51 mg/L	47.10 NTU	-41.9 mV	10.56 ft	160.00 ml/min
2/4/2025 5:08 PM	10:00	7.19 pH	18.60 °C	286.10 µS/cm	0.36 mg/L	47.10 NTU	-25.4 mV	10.56 ft	160.00 ml/min
2/4/2025 5:13 PM	15:00	7.21 pH	18.51 °C	288.71 µS/cm	0.26 mg/L	46.40 NTU	-30.8 mV	10.58 ft	160.00 ml/min
2/4/2025 5:18 PM	20:00	7.22 pH	18.44 °C	288.54 µS/cm	0.20 mg/L	47.10 NTU	-37.1 mV	10.58 ft	160.00 ml/min
2/4/2025 5:23 PM	25:00	7.21 pH	18.44 °C	290.30 µS/cm	0.18 mg/L	50.50 NTU	-71.7 mV	10.58 ft	160.00 ml/min
2/4/2025 5:28 PM	30:00	7.21 pH	18.42 °C	292.63 µS/cm	0.16 mg/L	53.10 NTU	-78.8 mV	10.57 ft	160.00 ml/min
2/4/2025 5:33 PM	35:00	7.20 pH	18.30 °C	296.58 µS/cm	0.17 mg/L	54.10 NTU	-84.8 mV	10.59 ft	160.00 ml/min
2/4/2025 5:38 PM	40:00	7.23 pH	18.26 °C	290.66 µS/cm	0.27 mg/L	51.40 NTU	-66.1 mV	10.54 ft	160.00 ml/min
2/4/2025 5:43 PM	45:00	7.19 pH	18.16 °C	303.12 µS/cm	0.21 mg/L	55.40 NTU	-84.6 mV	10.54 ft	160.00 ml/min

2/4/2025 5:48 PM	50:00	7.11 pH	18.11 °C	352.02 µS/cm	0.12 mg/L	54.80 NTU	-89.6 mV	10.57 ft	160.00 ml/min
2/4/2025 5:53 PM	55:00	7.18 pH	17.99 °C	303.42 µS/cm	0.22 mg/L	52.20 NTU	-77.1 mV	10.58 ft	160.00 ml/min
2/4/2025 5:58 PM	01:00:00	6.96 pH	18.00 °C	404.62 µS/cm	0.11 mg/L	54.90 NTU	-84.7 mV	10.58 ft	160.00 ml/min
2/4/2025 6:03 PM	01:05:00	6.60 pH	17.98 °C	614.68 µS/cm	0.10 mg/L	44.30 NTU	-62.0 mV	10.58 ft	160.00 ml/min
2/4/2025 6:08 PM	01:10:00	6.22 pH	17.95 °C	965.06 µS/cm	0.10 mg/L	37.40 NTU	-37.8 mV	10.58 ft	160.00 ml/min
2/4/2025 6:13 PM	01:15:00	5.88 pH	17.90 °C	1,369.2 µS/cm	0.10 mg/L	16.20 NTU	-17.2 mV	10.58 ft	160.00 ml/min
2/4/2025 6:18 PM	01:20:00	5.70 pH	17.87 °C	1,647.0 µS/cm	0.10 mg/L	9.68 NTU	-10.5 mV	10.57 ft	160.00 ml/min
2/4/2025 6:23 PM	01:25:00	5.64 pH	17.85 °C	1,761.6 µS/cm	0.10 mg/L	7.06 NTU	-8.1 mV	10.57 ft	160.00 ml/min
2/4/2025 6:28 PM	01:30:00	5.63 pH	17.80 °C	1,750.7 µS/cm	0.10 mg/L	5.96 NTU	-9.1 mV	10.57 ft	160.00 ml/min
2/4/2025 6:33 PM	01:35:00	5.57 pH	17.75 °C	1,817.8 µS/cm	0.10 mg/L	3.02 NTU	-3.6 mV	10.57 ft	160.00 ml/min

Samples

Sample ID:	Description:
ARK-ARAMW-7	TIME: 1835 8 bottles 3 x 1,000 mL (HNO3) - Radium 226/ 228 1 x 500 mL (unpreserved) - TDS 1 x 250 mL (unpreserved) - Anions 1 x 250 mL (HNO3) - Metals, Total 1 x 250 mL (HNO3) - Metals, Dissolved 1 x 250 mL (unpreserved) - Alkalinity

Low-Flow Test Report:

Test Date / Time: 2/4/2025 1:15:53 PM
Project: Arkwright
Operator Name: Max Moore

Location Name: ARK-ARAMW-8 **Latitude: 32.921326956742455** **Longitude: -83.70191406466411** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 39.5 ft** **Total Depth: 49.8 ft** **Initial Depth to Water: 11.41 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 44.5 ft** **Estimated Total Volume Pumped: 6250 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 7.67 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080306**

Test Notes:
Heron Dipper T S/N: 1080306
Peristaltic Pelican 1430
Hach 2100Q S/N: 22090D000235

Weather Conditions:
24°C Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10 %	+/- 0.3	
2/4/2025 1:15 PM	00:00	6.47 pH	21.53 °C	651.67 µS/cm	0.50 mg/L	7.29 NTU	8.0 mV	11.41 ft	150.00 ml/min
2/4/2025 1:20 PM	05:00	6.48 pH	21.27 °C	655.07 µS/cm	0.36 mg/L	6.58 NTU	5.0 mV	14.07 ft	100.00 ml/min
2/4/2025 1:25 PM	10:00	6.48 pH	21.36 °C	656.41 µS/cm	0.32 mg/L	6.59 NTU	9.0 mV	14.64 ft	100.00 ml/min
2/4/2025 1:30 PM	15:00	6.48 pH	21.35 °C	653.59 µS/cm	0.30 mg/L	7.90 NTU	10.1 mV	15.26 ft	100.00 ml/min
2/4/2025 1:35 PM	20:00	6.48 pH	21.30 °C	652.68 µS/cm	0.27 mg/L	5.85 NTU	11.1 mV	15.82 ft	100.00 ml/min
2/4/2025 1:40 PM	25:00	6.47 pH	21.50 °C	650.68 µS/cm	0.26 mg/L	7.08 NTU	11.7 mV	16.44 ft	100.00 ml/min
2/4/2025 1:45 PM	30:00	6.47 pH	21.50 °C	651.83 µS/cm	0.24 mg/L	7.23 NTU	11.9 mV	16.87 ft	100.00 ml/min
2/4/2025 1:50 PM	35:00	6.47 pH	21.80 °C	645.88 µS/cm	0.22 mg/L	8.05 NTU	12.8 mV	17.32 ft	100.00 ml/min
2/4/2025 1:55 PM	40:00	6.46 pH	21.74 °C	645.03 µS/cm	0.21 mg/L	7.92 NTU	13.7 mV	17.75 ft	100.00 ml/min
2/4/2025 2:00 PM	45:00	6.45 pH	21.76 °C	641.38 µS/cm	0.20 mg/L	6.40 NTU	14.4 mV	18.06 ft	100.00 ml/min
2/4/2025 2:05 PM	50:00	6.46 pH	21.74 °C	640.12 µS/cm	0.19 mg/L	5.74 NTU	15.2 mV	18.42 ft	100.00 ml/min

2/4/2025 2:10 PM	55:00	6.44 pH	21.71 °C	640.81 µS/cm	0.18 mg/L	5.14 NTU	15.8 mV	18.75 ft	100.00 ml/min
2/4/2025 2:15 PM	01:00:00	6.44 pH	21.89 °C	635.70 µS/cm	0.17 mg/L	3.99 NTU	16.0 mV	19.08 ft	100.00 ml/min

Samples

Sample ID:	Description:
ARK-ARAMW-8	8 bottle sets: @ 1420 3 x 1,000 mL (HNO3) - Radium 226/ 228 1 x 500 mL (unpreserved) - TDS 1 x 250 mL (unpreserved) - Anions 1 x 250 mL (HNO3) - Metals, Total 1 x 250 mL (HNO3) - Metals, Dissolved 1 x 250 mL (unpreserved) - Alkalinity
ARK-AP2-EB-04	6 bottle sets: @ 1520 3 x 1,000 mL (HNO3) - Radium 226/ 228 1 x 500 mL (unpreserved) - TDS 1 x 250 mL (unpreserved) - Anions 1 x 250 mL (HNO3) - Metals

Low-Flow Test Report:

Test Date / Time: 2/4/2025 4:39:29 PM
Project: Arkwright
Operator Name: J. Ashe

Location Name: ARAMW-9 **Latitude: 32.92167685182291** **Longitude: -83.70272152977539** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 95.37 ft** **Total Depth: 105.87 ft** **Initial Depth to Water: 7.58 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 100 ft** **Estimated Total Volume Pumped: 2000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 5.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Hach SN: 23080D00159 Aqua Troll 400 SN: 1080297

Weather Conditions:
Sunny, 25°C

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
2/4/2025 4:39 PM	00:00	7.02 pH	22.49 °C	1,033.2 µS/cm	3.44 mg/L	5.70 NTU	-84.7 mV	7.58 ft	100.00 ml/min
2/4/2025 4:44 PM	05:00	7.62 pH	18.99 °C	1,084.3 µS/cm	0.50 mg/L	3.30 NTU	-155.1 mV	9.66 ft	100.00 ml/min
2/4/2025 4:49 PM	10:00	7.79 pH	18.64 °C	1,089.7 µS/cm	0.35 mg/L	2.80 NTU	-109.5 mV	10.91 ft	100.00 ml/min
2/4/2025 4:54 PM	15:00	7.85 pH	18.60 °C	1,092.2 µS/cm	0.28 mg/L	3.55 NTU	-112.7 mV	11.71 ft	100.00 ml/min
2/4/2025 4:59 PM	20:00	7.88 pH	18.60 °C	1,089.2 µS/cm	0.25 mg/L	2.49 NTU	-113.7 mV	12.69 ft	100.00 ml/min

Samples

Sample ID:	Description:
ARK-ARAMW-9	8 bottle sets collected @ 1715: 3 x 1,000 mL (HNO3) - Radium 226/ 228 1 x 500 mL (unpreserved) - TDS 1 x 250 mL (unpreserved) - Anions 1 x 250 mL (HNO3) - Metals, Total 1 x 250 mL (HNO3) - Metals, Dissolved 1 x 250 mL (unpreserved) - Alkalinity

ARK-AP2-FB-03	6 bottle sets collected @ 1740: 3 x 1,000 mL (HNO3) - Radium 226/ 228 1 x 500 mL (unpreserved) - TDS 1 x 250 mL (unpreserved) - Anions 1 x 250 mL (HNO3) - Metals

Low-Flow Test Report:

Test Date / Time: 2/4/2025 1:08:09 PM
Project: Arkwright
Operator Name: J. Ashe

Location Name: ARAMW-10 **Latitude: 32.921859207858354** **Longitude: -83.7029030448837** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 47.6 ft** **Total Depth: 58 ft** **Initial Depth to Water: 10.95 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 53 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 0.37 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:

Hach SN: 23080D00159 Aqua Troll 400 SN: 1080297

Weather Conditions:
Sunny, 23°C

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
2/4/2025 1:08 PM	00:00	6.15 pH	28.57 °C	1,654.2 µS/cm	0.74 mg/L	2.42 NTU	25.9 mV	10.95 ft	300.00 ml/min
2/4/2025 1:13 PM	05:00	5.87 pH	20.40 °C	1,900.3 µS/cm	0.09 mg/L	2.15 NTU	24.7 mV	11.32 ft	300.00 ml/min
2/4/2025 1:18 PM	10:00	5.85 pH	19.96 °C	1,892.1 µS/cm	0.06 mg/L	0.93 NTU	26.4 mV	11.32 ft	300.00 ml/min
2/4/2025 1:23 PM	15:00	5.84 pH	19.67 °C	1,915.7 µS/cm	0.05 mg/L	0.79 NTU	27.0 mV	11.32 ft	300.00 ml/min
2/4/2025 1:28 PM	20:00	5.82 pH	19.65 °C	1,882.5 µS/cm	0.04 mg/L	1.20 NTU	29.2 mV	11.32 ft	300.00 ml/min

Samples

Sample ID:	Description:
ARK-ARAMW-10	8 bottle sets collected @ 1330: 3 x 1,000 mL (HNO3) - Radium 226/ 228 1 x 500 mL (unpreserved) - TDS 1 x 250 mL (unpreserved) - Anions 1 x 250 mL (HNO3) - Metals, Total 1 x 250 mL (HNO3) - Metals, Dissolved 1 x 250 mL (unpreserved) - Alkalinity

Low-Flow Test Report:

Test Date / Time: 2/4/2025 2:49:04 PM
Project: Arkwright
Operator Name: J. Ashe

Location Name: ARAMW-11 **Latitude: 32.92187489724421** **Longitude: -83.70299355924891** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 30.07 ft** **Total Depth: 40.5 ft** **Initial Depth to Water: 11.08 ft**	**Pump Type: Peristaltic Pump** **Tubing Type: LDPE** **Pump Intake From TOC: 35 ft** **Estimated Total Volume Pumped: 7500 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 300 ml/min** **Final Draw Down: 0.22 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Hach SN: 23080D00159 Aqua Troll 400 SN: 1080297

Weather Conditions:
Sunny, 25°C

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
2/4/2025 2:49 PM	00:00	5.65 pH	24.31 °C	1,583.1 µS/cm	1.79 mg/L	35.90 NTU	34.6 mV	11.08 ft	300.00 ml/min
2/4/2025 2:54 PM	05:00	5.51 pH	19.31 °C	1,731.5 µS/cm	0.67 mg/L	27.10 NTU	22.6 mV	11.26 ft	300.00 ml/min
2/4/2025 2:59 PM	10:00	5.49 pH	18.96 °C	1,736.7 µS/cm	0.47 mg/L	19.40 NTU	22.3 mV	11.26 ft	300.00 ml/min
2/4/2025 3:04 PM	15:00	5.48 pH	19.12 °C	1,722.6 µS/cm	0.32 mg/L	11.10 NTU	23.8 mV	11.30 ft	300.00 ml/min
2/4/2025 3:09 PM	20:00	5.46 pH	19.13 °C	1,712.5 µS/cm	0.24 mg/L	6.58 NTU	25.2 mV	11.30 ft	300.00 ml/min
2/4/2025 3:14 PM	25:00	5.45 pH	19.29 °C	1,701.7 µS/cm	0.19 mg/L	4.90 NTU	26.2 mV	11.30 ft	300.00 ml/min

Samples

Sample ID:	Description:

ARK-ARAMW-11	8 bottle sets collected @ 1520: 3 x 1,000 mL (HNO3) - Radium 226/ 228 1 x 500 mL (unpreserved) - TDS 1 x 250 mL (unpreserved) - Anions 1 x 250 mL (HNO3) - Metals, Total 1 x 250 mL (HNO3) - Metals, Dissolved 1 x 250 mL (unpreserved) - Alkalinity

Low-Flow Test Report:

Test Date / Time: 3/31/2025 11:57:29 AM
Project: Plant Arkwright
Operator Name: Max Moore

Location Name: Arkwright, AP-2, ARAMW-7 **Latitude: 32.921824674152774** **Longitude: -83.70289307095454** **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 38 ft** **Total Depth: 48 ft** **Initial Depth to Water: 10.88 ft**	**Pump Type: Peristaltic** **Tubing Type: LDPE** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 26000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.88 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1179231**

Test Notes:
Sample time - 16:05

Paused purging well at 13:38 due to lightning stand-down. Resume purging well at 15:24.

Weather Conditions:
21C Cloudy

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10 %	+/- 10	+/- 0.3	
3/31/2025 11:57 AM	00:00	5.63 pH	18.94 °C	1,853.6 µS/cm	0.69 mg/L	22.80 NTU	33.1 mV	9.88 ft	200.00 ml/min
3/31/2025 12:02 PM	05:00	5.63 pH	18.44 °C	1,864.9 µS/cm	0.29 mg/L	17.20 NTU	13.9 mV	10.26 ft	200.00 ml/min
3/31/2025 12:07 PM	10:00	5.65 pH	18.28 °C	1,873.9 µS/cm	0.20 mg/L	15.00 NTU	1.9 mV	10.28 ft	200.00 ml/min
3/31/2025 12:12 PM	15:00	5.64 pH	18.31 °C	1,867.2 µS/cm	0.17 mg/L	16.20 NTU	-0.9 mV	10.28 ft	200.00 ml/min
3/31/2025 12:17 PM	20:00	5.64 pH	18.33 °C	1,867.9 µS/cm	0.14 mg/L	15.20 NTU	-1.2 mV	10.28 ft	200.00 ml/min
3/31/2025 12:22 PM	25:00	5.64 pH	18.28 °C	1,864.6 µS/cm	0.14 mg/L	18.80 NTU	-2.6 mV	10.28 ft	200.00 ml/min
3/31/2025 12:27 PM	30:00	5.63 pH	18.22 °C	1,860.2 µS/cm	0.12 mg/L	14.40 NTU	-1.9 mV	10.28 ft	200.00 ml/min
3/31/2025 12:32 PM	35:00	5.64 pH	18.19 °C	1,860.5 µS/cm	0.12 mg/L	13.40 NTU	-2.1 mV	10.28 ft	200.00 ml/min
3/31/2025 12:37 PM	40:00	5.63 pH	18.18 °C	1,853.6 µS/cm	0.11 mg/L	13.70 NTU	-2.4 mV	10.28 ft	200.00 ml/min
3/31/2025 12:42 PM	45:00	5.63 pH	18.18 °C	1,850.0 µS/cm	0.10 mg/L	14.00 NTU	-2.0 mV	10.28 ft	200.00 ml/min
3/31/2025 12:47 PM	50:00	5.64 pH	18.15 °C	1,843.2 µS/cm	0.10 mg/L	8.73 NTU	-2.1 mV	10.28 ft	200.00 ml/min
3/31/2025 12:52 PM	55:00	5.64 pH	18.18 °C	1,835.7 µS/cm	0.10 mg/L	12.50 NTU	-0.8 mV	10.28 ft	200.00 ml/min

3/31/2025 12:57 PM	01:00:00	5.63 pH	18.13 °C	1,835.3 µS/cm	0.10 mg/L	15.60 NTU	0.3 mV	10.28 ft	200.00 ml/min
3/31/2025 1:02 PM	01:05:00	5.64 pH	18.18 °C	1,826.3 µS/cm	0.09 mg/L	8.29 NTU	0.7 mV	10.28 ft	200.00 ml/min
3/31/2025 1:07 PM	01:10:00	5.64 pH	18.14 °C	1,822.7 µS/cm	0.09 mg/L	10.10 NTU	1.7 mV	10.28 ft	200.00 ml/min
3/31/2025 1:12 PM	01:15:00	5.64 pH	18.17 °C	1,819.2 µS/cm	0.09 mg/L	9.24 NTU	2.3 mV	10.28 ft	200.00 ml/min
3/31/2025 1:17 PM	01:20:00	5.65 pH	18.16 °C	1,815.5 µS/cm	0.09 mg/L	8.82 NTU	2.5 mV	10.28 ft	200.00 ml/min
3/31/2025 1:22 PM	01:25:00	5.64 pH	18.16 °C	1,802.8 µS/cm	0.09 mg/L	10.80 NTU	2.9 mV	10.28 ft	200.00 ml/min
3/31/2025 1:27 PM	01:30:00	5.64 pH	18.14 °C	1,805.8 µS/cm	0.09 mg/L	7.10 NTU	4.0 mV	10.28 ft	200.00 ml/min
3/31/2025 1:32 PM	01:35:00	5.65 pH	18.17 °C	1,808.0 µS/cm	0.08 mg/L	7.61 NTU	4.9 mV	10.28 ft	200.00 ml/min
3/31/2025 1:37 PM	01:40:00	5.65 pH	18.14 °C	1,806.6 µS/cm	0.08 mg/L	8.63 NTU	5.0 mV	10.00 ft	200.00 ml/min
3/31/2025 3:29 PM	03:32:03	5.67 pH	17.99 °C	1,754.5 µS/cm	0.59 mg/L	14.30 NTU	12.6 mV	10.00 ft	200.00 ml/min
3/31/2025 3:34 PM	03:37:03	5.66 pH	17.78 °C	1,764.5 µS/cm	0.30 mg/L	11.20 NTU	3.2 mV	10.00 ft	200.00 ml/min
3/31/2025 3:39 PM	03:42:03	5.67 pH	17.77 °C	1,784.1 µS/cm	0.19 mg/L	8.00 NTU	10.3 mV	10.00 ft	200.00 ml/min
3/31/2025 3:44 PM	03:47:03	5.67 pH	17.75 °C	1,776.4 µS/cm	0.14 mg/L	6.07 NTU	10.4 mV	10.00 ft	200.00 ml/min
3/31/2025 3:49 PM	03:52:03	5.67 pH	17.78 °C	1,770.8 µS/cm	0.11 mg/L	5.87 NTU	9.0 mV	10.00 ft	200.00 ml/min
3/31/2025 3:54 PM	03:57:03	5.67 pH	17.77 °C	1,765.7 µS/cm	0.09 mg/L	6.02 NTU	7.6 mV	10.00 ft	200.00 ml/min
3/31/2025 3:59 PM	04:02:03	5.66 pH	17.77 °C	1,766.0 µS/cm	0.09 mg/L	4.82 NTU	7.0 mV	10.00 ft	200.00 ml/min

Samples

Sample ID:	Description:
ARK-ARAMW-7	16:05 7 bottle sets: 3 x 1,000 mL (preserved) - Radium 226/ 228 1 x 250 mL (unpreserved) - TDS 1 x 250 mL (HNO3) - Metals & Hg Total 1 x 250 mL (HNO3) -Metals, Dissolved (Fe & Mn) 1 x 250 mL (unpreserved) -Alkalinity/anions

B.3 Calibration Data

Field Instrumentation Calibration Form

Site Name: GPC Plant Arkwright

Date: 08/20/2024

Calibrated By: Dylan Quintal

Field Conditions: Clear, 69F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ AquaTroll 400	1080302
Turbidity Meter	Hach 2100Q	23060D000344

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24005593	Dec-24	AIR
pH (SU)	4.00	2405593	Dec-24	AIR
pH (SU)	7.00	24004517	Dec-24	AIR
pH (SU)	10.00	24000085	Dec-24	AIR
D.O. (%)	N/A	N/A	N/A	N/A
ORP (mV)	228.0	24006903	Dec-24	AIR

Calibration					
Time Start	**07:20**	**Time Finish**	**07:40**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4497.2	24.64	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	24.45	± 0.1	GWMP
pH (SU)	7.00	7.03	23.90	± 0.1	GWMP
pH (SU)	10.00	10.04	25.06	± 0.1	GWMP
D.O. (%)	N/A	98.91	22.25	± 10%	NA
ORP (mV)	228.0	224.8	24.55	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	101		
	800	823		
	10	9.02		

Calibration Check					
Time Start	**14:20**	**Time Finish**	**14:30**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4622.0	35.79	± 10% of standard	EPA 2023
pH (SU)	4.00	4.16	37.21	± 0.1	GWMP
pH (SU)	7.00	7.12	37.1	± 0.1	GWMP
pH (SU)	10.00	9.94	37.74	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.3	± 10% of standard	EPA 2023
	100	101		
	800	792		
	10	10.3		

Notes:

Completed by DQ 08/20/2024

Checked by AS 08/23/2024

Field Instrumentation Calibration Form

Site Name: GPC Plant Arkwright

Date: 08/20/2024

Calibrated By: Jackson Bankston

Field Conditions: Sunny 70F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ AquaTroll 400	1080306
Turbidity Meter	Hack 2100Q	22090D000235

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24005593	Dec-24	AIR
pH (SU)	4.00	24005593	Dec-24	AIR
pH (SU)	7.00	240004517	Dec-24	AIR
pH (SU)	10.00	24000085	Dec-24	AIR
D.O. (%)	N/A	N/A	N/A	N/A
ORP (mV)	228.0	24006903	Dec-24	AIR

Calibration					
Time Start	**7:48**	**Time Finish**	**7:57**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,465	24.88	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	24.90	± 0.1	GWMP
pH (SU)	7.00	7.02	29.94	± 0.1	GWMP
pH (SU)	10.00	10.01	29.27	± 0.1	GWMP
D.O. (%)	N/A	99.82	22.88	± 10%	NA
ORP (mV)	228.0	230.2	23.73	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.3	± 10% of standard	EPA 2023
	100	100		
	800	791		
	10	9.58		

Calibration Check					
Time Start	**14:50**	**Time Finish**	**15:15**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,521.6	28.72	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	28.77	± 0.1	GWMP
pH (SU)	7.00	7.05	28.65	± 0.1	GWMP
pH (SU)	10.00	10.05	28.39	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.6	± 10% of standard	EPA 2023
	100	95.6		
	800	812		
	10	9.8		

Notes:

Completed by JB 08/20/2024

Checked by AS 08/23/2024

Field Instrumentation Calibration Form

Site Name: GPC Plant Arkwright

Date: 08/20/2024

Calibrated By: John Myer

Field Conditions: Sunny, 70F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ AquaTroll 400	1082817
Turbidity Meter	Hach 2100Q	22090D000345

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24005593	Dec-24	AIR
pH (SU)	4.00	24005593	Dec-24	AIR
pH (SU)	7.00	24004517	Dec-24	AIR
pH (SU)	10.00	24000085	Dec-24	AIR
D.O. (%)	N/A	N/A	N/A	N/A
ORP (mV)	228.0	24006903	Dec-24	AIR

Calibration					
Time Start	**8:30**	**Time Finish**	**8:50**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4455	24.5	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	25.0	± 0.1	GWMP
pH (SU)	7.00	7.00	24.9	± 0.1	GWMP
pH (SU)	10.00	10.00	25.1	± 0.1	GWMP
D.O. (%)	N/A	99.9	24.1	± 10%	NA
ORP (mV)	228.0	228.1	24.4	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.6	± 10% of standard	EPA 2023
	100	101		
	800	816		
	10	10.1		

Calibration Check					
Time Start	**15:05**	**Time Finish**	**15:15**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4608	35.7	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	35.7	± 0.1	GWMP
pH (SU)	7.00	6.99	35.5	± 0.1	GWMP
pH (SU)	10.00	9.91	34.5	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	101		
	800	806		
	10	9.66		

Notes:

Completed by JM 08/20/2024

Checked by AS 08/23/2024

Field Instrumentation Calibration Form

Site Name: GPC Plant Arkwright

Date: 08/20/2024

Calibrated By: Z. Levy

Field Conditions: Clear, 70F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ AquaTroll 400	24005593
Turbidity Meter	Hach 2100Q	23080D000159

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24005593	Dec-24	AIR
pH (SU)	4.00	24005593	Dec-24	AIR
pH (SU)	7.00	240045517	Dec-24	AIR
pH (SU)	10.00	24000085	Dec-24	AIR
D.O. (%)	N/A	N/A	N/A	N/A
ORP (mV)	228.0	24006903	Dec-24	AIR

Calibration					
Time Start	**7:05**	**Time Finish**	**7:15**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,461	25.77	± 10% of standard	EPA 2023
pH (SU)	4.00	4.19	26.04	± 0.1	GWMP
pH (SU)	7.00	7.07	26.68	± 0.1	GWMP
pH (SU)	10.00	10.16	26.68	± 0.1	GWMP
D.O. (%)	N/A	99.98	24.96	± 10%	NA
ORP (mV)	228.0	226.8	26.20	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20	± 10% of standard	EPA 2023
	100	101		
	800	803		
	10	9.6		

Calibration Check					
Time Start	**14:09**	**Time Finish**	**14:19**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,285.8	29.43	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	29.43	± 0.1	GWMP
pH (SU)	7.00	7.05	28.16	± 0.1	GWMP
pH (SU)	10.00	10.09	27.51	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10	± 10% of standard	EPA 2023
	20	20.8		
	100	101		
	800	780		

Notes:

Completed by ZL 08/20/2024

Checked by AS 08/23/2024

Field Instrumentation Calibration Form

Site Name:__Arkwright_____ Date: __12/12/2024_____

Calibrated By:_Andreas S, Jaiden S.____ Field Conditions:__Sunny___7.22 °C_____

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	IS AQUATROLL	1082822
Turbidity Meter	HACH 2100Q	231000000373

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	May-25	AIR
pH (SU)	4.00	24010943	May-25	AIR
pH (SU)	7.00	24008587	Jun-25	AIR
pH (SU)	10.00	24004996	Jun-25	AIR
D.O. (%)	--	--	--	--
ORP (mV)	228.0	24011792	Jun-25	AIR

Calibration					
Time Start	**750**	**Time Finish**	**825**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4.489	19.58	± 10% of standard	EPA 2023
pH (SU)	4.00	4.08	19.58	± 0.1	GWMP
pH (SU)	7.00	7.08	19.33	± 0.1	GWMP
pH (SU)	10.00	10.13	19.22	± 0.1	GWMP
D.O. (%)	N/A	100	19.73	± 10%	NA
ORP (mV)	228.0	227.4	19.26	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.82	± 10% of standard	EPA 2023
	20	19.6		
	100	96.8		
	800	780		

Calibration Check					
Time Start	**1150**	**Time Finish**	**1220**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4433.5	22.19	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	22.20	± 0.1	GWMP
pH (SU)	7.00	7.03	21.29	± 0.1	GWMP
pH (SU)	10.00	10.09	21.77	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:
Did not complete the calibration check for the turbidity meter due to it having been unknowingly picked up by Atlanta Instrument Rentals (AIR) during the calibration check of the AQUATROLL.

Field Instrumentation Calibration Form

Site Name:_Plant Arkwright_ Date:_2/4/2025_

Calibrated By:_Devon Abuan_ Field Conditions:_Clear, 13C_

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua Troll 400	1080307
Turbidity Meter	HACH	23060D000334

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	May-25	AIR
pH (SU)	4.00	24010943	May-25	AIR
pH (SU)	7.00	24008587	Jun-25	AIR
pH (SU)	10.00	24004996	Jun-25	AIR
D.O. (%)	N/A	N/A	N/A	N/A
ORP (mV)	228.0	24011792	Jun-25	AIR

Calibration					
Time Start	**05:30**	**Time Finish**	**06:00**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4939.1	23.48	± 10% of standard	EPA 2023
pH (SU)	4.00	4.05	23.48	± 0.1	GWMP
pH (SU)	7.00	7.04	22.98	± 0.1	GWMP
pH (SU)	10.00	10.8	22.59	± 0.1	GWMP
D.O. (%)	N/A	93.62	22.57	± 10%	N/A
ORP (mV)	228.0	238	22.87	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	101		
	800	808		
	10	9.72		

Calibration Check					
Time Start	**16:20**	**Time Finish**	**16:30**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4514.6	21.86	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	21.86	± 0.1	GWMP
pH (SU)	7.00	7.04	23.48	± 0.1	GWMP
pH (SU)	10.00	9.96	23.69	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20	± 10% of standard	EPA 2023
	100	100		
	800	791		
	10	9.87		

Notes:

Field Instrumentation Calibration Form

Site Name:_Plant Arkwright_ Date:_2/4/2025_

Calibrated By:_Jacob Ashe_ Field Conditions:_Sunny, 14 C_

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ AquaTroll 400	1080297
Turbidity Meter	Hach 2100Q	23080D000159

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	2410943	May-25	AIR
pH (SU)	4.00	2410943	May-25	AIR
pH (SU)	7.00	24008587	Jun-25	AIR
pH (SU)	10.00	24004996	Jun-25	AIR
D.O. (%)	N/A	N/A	N/A	N/A
ORP (mV)	228.0	24011792	Jun-25	AIR

Calibration					
Time Start	**7:00**	**Time Finish**	**7:20**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (^{o}C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4607.5	18.82	± 10% of standard	EPA 2023
pH (SU)	4.00	3.97	18.91	± 0.1	GWMP
pH (SU)	7.00	6.99	19.36	± 0.1	GWMP
pH (SU)	10.00	10.04	19.63	± 0.1	GWMP
D.O. (%)	N/A	100.12	19.89	± 10%	N/A
ORP (mV)	228.0	235.9	19.75	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.61	± 10% of standard	EPA 2023
	20	19.5		
	100	98.7		
	800	802		

Calibration Check					
Time Start	**18:40**	**Time Finish**	**18:55**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (^{o}C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4605	19.73	± 10% of standard	EPA 2023
pH (SU)	4.00	4.1	19.73	± 0.1	GWMP
pH (SU)	7.00	6.95	19.91	± 0.1	GWMP
pH (SU)	10.00	10	20.5	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.98	± 10% of standard	EPA 2023
	20	19.3		
	100	99.1		
	800	785		

Notes:

Field Instrumentation Calibration Form

Site Name:_Plant Arkwright_ Date:_2/4/2025_

Calibrated By:_Jackson Bankston_ Field Conditions:_Sunny, 14 C_

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ AquaTroll 400	1082817
Turbidity Meter	Hach 2100Q	23100D000373

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	May-25	AIR
pH (SU)	4.00	24010943	May-25	AIR
pH (SU)	7.00	24008587	Jun-25	AIR
pH (SU)	10.00	24004996	Jun-25	AIR
D.O. (%)	N/A	N/A	N/A	N/A
ORP (mV)	228.0	24011792	Jun-25	AIR

Calibration					
Time Start	**7:00**	**Time Finish**	**7:18**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,518	20.23	± 10% of standard	EPA 2023
pH (SU)	4.00	4.08	20.26	± 0.1	GWMP
pH (SU)	7.00	7.08	21.43	± 0.1	GWMP
pH (SU)	10.00	10.11	21.56	± 0.1	GWMP
D.O. (%)	N/A	109.52	20.67	± 10%	N/A
ORP (mV)	228.0	225.1	19.98	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	21.2	± 10% of standard	EPA 2023
	100	106		
	800	819		
	10	10.3		

Calibration Check					
Time Start	**18:00**	**Time Finish**	**18:15**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4517.82	22.61	± 10% of standard	EPA 2023
pH (SU)	4.00	4.08	22.61	± 0.1	GWMP
pH (SU)	7.00	7.08	23.06	± 0.1	GWMP
pH (SU)	10.00	10.11	23.44	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	21.6	± 10% of standard	EPA 2023
	100	113		
	800	832		
	10	10.4		

Notes:

Field Instrumentation Calibration Form

Site Name:_Plant Arkwright_ Date:_2/4/2025_

Calibrated By:_Max Moore_ Field Conditions:_Clear, 14 C_

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In Situ Aquatroll	1080326
Turbidity Meter	Hach 2100Q	22090000023

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	May-25	AIR
pH (SU)	4.00	24010943	25-May	AIR
pH (SU)	7.00	24008587	25-Jun	AIR
pH (SU)	10.00	24004996	25-Jun	AIR
D.O. (%)	N/A	N/A	N/A	N/A
ORP (mV)	228.0	24011792	Jun-25	AIR

Calibration					
Time Start	**6:45**	**Time Finish**	**7:15**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4502.9	20.3	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	20.3	± 0.1	GWMP
pH (SU)	7.00	7.09	20.34	± 0.1	GWMP
pH (SU)	10.00	10.06	20.33	± 0.1	GWMP
D.O. (%)	N/A	97.87	20.79	± 10%	N/A
ORP (mV)	228.0	218.1	20.28	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	18.9	± 10% of standard	EPA 2023
	100	101		
	800	816		
	10	10.8		

Calibration Check					
Time Start	**15:50**	**Time Finish**	**19:30**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4470	21.87	± 10% of standard	EPA 2023
pH (SU)	4.00	4.05	21.87	± 0.1	GWMP
pH (SU)	7.00	7.04	21.65	± 0.1	GWMP
pH (SU)	10.00	10.02	21.72	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	21.3	± 10% of standard	EPA 2023
	100	94.8		
	400	782		
	10	10.9		

Field Instrumentation Calibration Form

Site Name:_Plant Arkwright__ Date: ___3/31/25_____

Calibrated By:____Jackson Bankston____ Field Conditions:_____Sunny, 21.0 C_____

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 400	1167960
Turbidity Meter	Hach 2100Q	22090D000739

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	NA	1-Jun	AIR
pH (SU)	4.00	NA	May-25	AIR
pH (SU)	7.00	NA	Jun-25	AIR
pH (SU)	10.00	NA	Jun-25	AIR
D.O. (%)	N/A	NA	NA	AIR
ORP (mV)	228.0	NA	May-25	AIR

Calibration					
Time Start	**11:00**	**Time Finish**	**11:30**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4556.5	19.84	± 10% of standard	EPA 2023
pH (SU)	4.00	3.96	19.84	± 0.1	GWMP
pH (SU)	7.00	6.9	20.14	± 0.1	GWMP
pH (SU)	10.00	10.06	20.07	± 0.1	GWMP
D.O. (%)	N/A	100.84	NA	± 10%	NA
ORP (mV)	228.0	224.5	19.57	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	101		
	800	804		
	10	9.9		

Calibration Check					
Time Start	**19:30**	**Time Finish**	**20:00**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4637	20.76	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	20.76	± 0.1	GWMP
pH (SU)	7.00	7.08	20.45	± 0.1	GWMP
pH (SU)	10.00	10.12	20.82	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.3	± 10% of standard	EPA 2023
	100	101		
	800	793		
	10	10.8		

Notes:

Field Instrumentation Calibration Form

Site Name:_____Plant Arkwright_____ Date: ___3/31/25_____

Calibrated By:___Max Moore_____ Field Conditions:_____Sunny, 21.0 C_____

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 400	1179231
Turbidity Meter	Hach 2100Q	13110C029655

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	NA	1-Jun	AIR
pH (SU)	4.00	NA	May-25	AIR
pH (SU)	7.00	NA	Jun-25	AIR
pH (SU)	10.00	NA	Jun-25	AIR
D.O. (%)	N/A	NA	NA	AIR
ORP (mV)	228.0	NA	May-25	AIR

Calibration					
Time Start	**11:00**	**Time Finish**	**11:30**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4517	19.86	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	19.86	± 0.1	GWMP
pH (SU)	7.00	6.95	20.03	± 0.1	GWMP
pH (SU)	10.00	9.98	19.72	± 0.1	GWMP
D.O. (%)	N/A	100.74	NA	± 10%	NA
ORP (mV)	228.0	224.2	19.32	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.4	± 10% of standard	EPA 2023
	100	103		
	800	796		
	10	10.2		

Calibration Check					
Time Start	**19:30**	**Time Finish**	**20:00**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4523	20.76	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	20.76	± 0.1	GWMP
pH (SU)	7.00	7.03	20.45	± 0.1	GWMP
pH (SU)	10.00	10.08	20.82	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	21.7	± 10% of standard	EPA 2023
	100	106		
	800	811		
	10	10.8		

Notes:

B.4 Groundwater and Surface Water Laboratory Analytical 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

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Arkwright CCR Groundwater Compliance 175569434
Work Order: 682093

Dear Joju Abraham:

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. Two of the containers for sample ID 682093009(ARK-ARAMW-8) are labeled with the collection date 8/19. Collection date was used from chain of custody. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682093001	ARK-ARGWA-19	Ground Water	08/20/24 09:10	08/21/24 14:00
682093002	ARK-ARGWA-20	Ground Water	08/20/24 09:35	08/21/24 14:00
682093003	ARK-ARGWC-21	Ground Water	08/20/24 15:15	08/21/24 14:00
682093004	ARK-ARGWC-22	Ground Water	08/20/24 14:05	08/21/24 14:00
682093005	ARK-ARGWC-23	Ground Water	08/20/24 12:50	08/21/24 14:00
682093006	ARK-ARAMW-1	Ground Water	08/20/24 13:15	08/21/24 14:00
682093007	ARK-ARAMW-2	Ground Water	08/20/24 11:45	08/21/24 14:00
682093008	ARK-ARAMW-7	Ground Water	08/20/24 13:05	08/21/24 14:00
682093009	ARK-ARAMW-8	Ground Water	08/20/24 09:35	08/21/24 14:00
682093010	ARK-ARAMW-9	Ground Water	08/20/24 11:50	08/21/24 14:00
682093011	ARK-AP2-EB-03	Water	08/20/24 14:40	08/21/24 14:00
682093012	ARK-AP2-FD-03	Water	08/20/24 12:00	08/21/24 14:00
682093013	ARK-AP2-FB-03	Water	08/20/24 12:00	08/21/24 14:00

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

Prep Methods and Prep Dates

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

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	24-AUG-2024
EPA 300.0	25-AUG-2024
EPA 300.0	26-AUG-2024
EPA 353.2 Low Level	23-AUG-2024
SM 2320B	22-AUG-2024
SM 2540C	27-AUG-2024
SW846 3005A/6020B	01-SEP-2024
SW846 3005A/6020B	31-AUG-2024
SW846 7470A	23-AUG-2024
SW846 7470A	26-AUG-2024

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

Sincerely,

Alaina Pinnick

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0005
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: 682093 GEL Work Order: 682093

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, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID: ARK-ARGWA-19
Sample ID: 682093001
Matrix: WG
Collect Date: 20-AUG-24 09:10
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00100
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		4.89	0.0670	0.200	mg/L		1	CH6	08/24/24	1904	2662125	1
Fluoride	J	0.0679	0.0330	0.100	mg/L		1					
Sulfate		7.07	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/23/24	1110	2660787	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	BAJ	09/01/24	1312	2661534	3
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0236	0.00520	0.0150	mg/L	1.00	1					
Calcium		8.29	0.0800	0.200	mg/L	1.00	1					
Lithium	J	0.00376	0.00300	0.0100	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	08/31/24	1739	2661534	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0293	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					
Iron	U	ND	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		3.52	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000375	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.03	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		9.61	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		1.74	0.0350	0.100	mg/L		5	AXH3	08/23/24	0715	2660961	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID: ARK-ARGWA-19 Project: GPCC00100
Sample ID: 682093001 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		91.0	2.38	10.0	mg/L			KLP1	08/27/24	1058	2663138	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		37.5	0.725	2.00	mg/L			JW2	08/22/24	1105	2661203	7
Bicarbonate alkalinity (CaCO3)		37.5	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	08/23/24	1445	2661533
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/22/24	1110	2660785

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	EPA 353.2 Low Level	
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

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, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARGWA-20	Project:	GPCC00100
Sample ID:	682093002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 09:35		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7.63	0.0670	0.200	mg/L		1	CH6	08/24/24	1935	2662125	1
Fluoride	J	0.0488	0.0330	0.100	mg/L		1					
Sulfate		16.4	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/23/24	1112	2660787	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum		0.0748	0.0193	0.0500	mg/L	1.00	1	BAJ	09/01/24	1318	2661534	3
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0537	0.00520	0.0150	mg/L	1.00	1					
Calcium		10.6	0.0800	0.200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Manganese	J	0.00343	0.00100	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	08/31/24	1813	2661534	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0863	0.000670	0.00400	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00598	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Iron		0.110	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		5.83	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.51	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		11.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.835	0.0350	0.100	mg/L		5	AXH3	08/23/24	0716	2660961	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Certificate of Analysis

Report Date: September 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID: ARK-ARGWA-20 Project: GPCC00100
Sample ID: 682093002 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		113	2.38	10.0	mg/L			KLP1	08/27/24	1058	2663138	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		41.2	0.725	2.00	mg/L			JW2	08/22/24	1106	2661203	7
Bicarbonate alkalinity (CaCO3)		41.2	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	08/23/24	1445	2661533
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/22/24	1110	2660785

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	EPA 353.2 Low Level	
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 5, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARGWC-21	Project:	GPCC00100
Sample ID:	682093003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 15:15		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		219	2.66	8.00	mg/L		20	CH6	08/26/24	1539	2662125	1
Chloride		3.18	0.0670	0.200	mg/L		1	CH6	08/24/24	2005	2662125	2
Fluoride		0.124	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/23/24	1114	2660787	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	BAJ	09/01/24	1359	2661534	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Lithium		0.0119	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.322	0.00100	0.00500	mg/L	1.00	1					
Boron		1.13	0.0520	0.150	mg/L	1.00	10	BAJ	09/01/24	1335	2661534	5
Calcium		78.0	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	08/31/24	1818	2661534	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0431	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	J	0.000769	0.000300	0.00100	mg/L	1.00	1					
Iron		0.579	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		39.4	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.12	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		20.2	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	AXH3	08/23/24	0718	2660961	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID: ARK-ARGWC-21 Project: GPCC00100
Sample ID: 682093003 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		520	2.38	10.0	mg/L			KLP1	08/27/24	1058	2663138	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		160	0.725	2.00	mg/L			JW2	08/22/24	1107	2661203	9
Bicarbonate alkalinity (CaCO3)		160	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	08/23/24	1445	2661533
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/22/24	1110	2660785

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	EPA 353.2 Low Level	
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: September 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARGWC-22	Project:	GPCC00100
Sample ID:	682093004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 14:05		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		674	6.65	20.0	mg/L		50	CH6	08/26/24	1610	2662125	1
Chloride		7.25	0.0670	0.200	mg/L		1	CH6	08/24/24	2036	2662125	2
Fluoride	J	0.0660	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/23/24	1115	2660787	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	08/31/24	1824	2661534	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0223	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		0.00279	0.000300	0.00100	mg/L	1.00	1					
Iron		6.00	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000406	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.45	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		26.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Aluminum	J	0.0230	0.0193	0.0500	mg/L	1.00	1	BAJ	09/01/24	1400	2661534	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Lithium		0.0200	0.00300	0.0100	mg/L	1.00	1					
Boron		3.09	0.130	0.375	mg/L	1.00	25	BAJ	09/01/24	1336	2661534	6
Calcium		194	2.00	5.00	mg/L	1.00	25					
Manganese		17.2	0.0250	0.125	mg/L	1.00	25					
Magnesium		80.2	0.0500	0.150	mg/L	1.00	5	BAJ	08/31/24	1827	2661534	7
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.122	0.00700	0.0200	mg/L		1	JLD1	08/23/24	1005	2660961	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Report Date: September 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID: ARK-ARGWC-22 Project: GPCC00100
Sample ID: 682093004 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1180	2.38	10.0	mg/L			KLP1	08/27/24	1058	2663138	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		136	0.725	2.00	mg/L			JW2	08/22/24	1110	2661203	10
Bicarbonate alkalinity (CaCO3)		136	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 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/22/24	1110	2660785
SW846 3005A	ICP-MS 3005A PREP	BB2	08/23/24	1445	2661533

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	EPA 353.2 Low Level	
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: September 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARGWC-23	Project:	GPCC00100
Sample ID:	682093005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 12:50		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		80.1	1.33	4.00	mg/L		10	CH6	08/26/24	1641	2662125	1
Chloride		3.68	0.0670	0.200	mg/L		1	CH6	08/24/24	2107	2662125	2
Fluoride		0.365	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1200	2661395	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	BAJ	09/01/24	1407	2661534	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Lithium		0.0469	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.281	0.00100	0.00500	mg/L	1.00	1					
Boron		0.434	0.0260	0.0750	mg/L	1.00	5	BAJ	09/01/24	1329	2661534	5
Calcium		79.6	0.400	1.00	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	08/31/24	1830	2661534	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.105	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	J	0.000484	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					
Magnesium		14.7	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.0740	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.08	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		16.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.975	0.0350	0.100	mg/L		5	AXH3	08/23/24	0721	2660961	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Report Date: September 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID: ARK-ARGWC-23 Project: GPCC00100
Sample ID: 682093005 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		328	2.38	10.0	mg/L			KLP1	08/27/24	1058	2663138	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		185	0.725	2.00	mg/L			JW2	08/22/24	1112	2661203	9
Bicarbonate alkalinity (CaCO3)		185	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	08/23/24	1445	2661533
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661392

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	EPA 353.2 Low Level	
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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Report Date: September 5, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARAMW-1	Project:	GPCC00100
Sample ID:	682093006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 13:15		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		211	2.66	8.00	mg/L		20	CH6	08/26/24	1813	2662125	1
Chloride		3.27	0.0670	0.200	mg/L		1	CH6	08/24/24	2138	2662125	2
Fluoride		0.169	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1206	2661395	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.49	0.130	0.375	mg/L	1.00	25	BAJ	09/01/24	1332	2661534	4
Calcium		85.4	2.00	5.00	mg/L	1.00	25					
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	BAJ	09/01/24	1402	2661534	5
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Lithium	J	0.00934	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.133	0.00100	0.00500	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	08/31/24	1841	2661534	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0389	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					
Iron	J	0.0976	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		39.2	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00873	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.38	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		20.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	AXH3	08/23/24	0722	2660961	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Certificate of Analysis

Report Date: September 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID: ARK-ARAMW-1 Project: GPCC00100
Sample ID: 682093006 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		538	2.38	10.0	mg/L			KLP1	08/27/24	1058	2663138	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		178	0.725	2.00	mg/L			JW2	08/22/24	1114	2661203	9
Bicarbonate alkalinity (CaCO3)		178	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 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661392
SW846 3005A	ICP-MS 3005A PREP	BB2	08/23/24	1445	2661533

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	EPA 353.2 Low Level	
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: September 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID: ARK-ARAMW-2
Sample ID: 682093007
Matrix: WG
Collect Date: 20-AUG-24 11:45
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00100
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		3.24	0.0670	0.200	mg/L		1	CH6	08/24/24	2209	2662125	1
Fluoride		0.123	0.0330	0.100	mg/L		1					
Sulfate		232	2.66	8.00	mg/L		20	CH6	08/26/24	1844	2662125	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1207	2661395	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.28	0.130	0.375	mg/L	1.00	25	BAJ	09/01/24	1334	2661534	4
Calcium		85.2	2.00	5.00	mg/L	1.00	25					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	08/31/24	1846	2661534	5
Arsenic	J	0.00392	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0560	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		0.00166	0.000300	0.00100	mg/L	1.00	1					
Iron		2.62	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		36.2	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	J	0.000585	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.25	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		19.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	BAJ	09/01/24	1403	2661534	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Lithium		0.0145	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.475	0.00100	0.00500	mg/L	1.00	1					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	J	0.0150	0.00700	0.0200	mg/L		1	AXH3	08/23/24	0724	2660961	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Report Date: September 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID: ARK-ARAMW-2 Project: GPCC00100
Sample ID: 682093007 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		564	2.38	10.0	mg/L			KLP1	08/27/24	1058	2663138	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		158	0.725	2.00	mg/L			JW2	08/22/24	1115	2661203	9
Bicarbonate alkalinity (CaCO3)		158	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	08/23/24	1445	2661533
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661392

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	EPA 353.2 Low Level	
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: September 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID: ARK-ARAMW-7
Sample ID: 682093008
Matrix: WG
Collect Date: 20-AUG-24 13:05
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00100
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"												
Sulfate		1010	13.3	40.0	mg/L		100	CH6	08/24/24	2240	2662125	1
Chloride		5.13	0.134	0.400	mg/L		2	CH6	08/26/24	1915	2662125	2
Fluoride	J	0.118	0.0660	0.200	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	JP2	08/26/24	1209	2661395	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum		0.0935	0.0193	0.0500	mg/L	1.00	1	BAJ	09/01/24	1404	2661534	4
Beryllium	J	0.000318	0.000200	0.000500	mg/L	1.00	1					
Lithium		0.0585	0.00300	0.0100	mg/L	1.00	1					
Magnesium		79.7	0.0500	0.150	mg/L	1.00	5	BAJ	08/31/24	1855	2661534	5
Boron		2.44	0.260	0.750	mg/L	1.00	50	BAJ	09/01/24	1346	2661534	6
Calcium		284	4.00	10.0	mg/L	1.00	50					
Manganese		13.7	0.0500	0.250	mg/L	1.00	50					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	08/31/24	1852	2661534	7
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0277	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		0.0702	0.000300	0.00100	mg/L	1.00	1					
Iron		4.83	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000257	0.000200	0.00100	mg/L	1.00	1					
Potassium		9.23	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		27.6	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	AXH3	08/23/24	0725	2660961	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Certificate of Analysis

Report Date: September 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID: ARK-ARAMW-7 Project: GPCC00100
Sample ID: 682093008 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1590	23.8	100	mg/L			KLP1	08/27/24	1058	2663138	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		58.6	0.725	2.00	mg/L			JW2	08/22/24	1117	2661203	10
Bicarbonate alkalinity (CaCO3)		58.6	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	08/23/24	1445	2661533
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661392

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	EPA 353.2 Low Level	
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: September 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID: ARK-ARAMW-8
Sample ID: 682093009
Matrix: WG
Collect Date: 20-AUG-24 09:35
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00100
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"												
Sulfate		109	1.33	4.00	mg/L		10	CH6	08/26/24	1946	2662125	1
Chloride		4.54	0.0670	0.200	mg/L		1	CH6	08/24/24	2311	2662125	2
Fluoride		0.199	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1210	2661395	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.675	0.0260	0.0750	mg/L	1.00	5	BAJ	09/01/24	1330	2661534	4
Calcium		79.2	0.400	1.00	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	08/31/24	1858	2661534	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.112	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		0.00277	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					
Magnesium		33.7	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.195	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.91	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		17.7	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Aluminum	J	0.0279	0.0193	0.0500	mg/L	1.00	1	BAJ	09/01/24	1408	2661534	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Lithium	J	0.00586	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.187	0.00100	0.00500	mg/L	1.00	1					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	AXH3	08/23/24	0727	2660961	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Report Date: September 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID: ARK-ARAMW-8 Project: GPCC00100
Sample ID: 682093009 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		422	2.38	10.0	mg/L			KLP1	08/27/24	1058	2663138	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		251	0.725	2.00	mg/L			JW2	08/22/24	1118	2661203	9
Bicarbonate alkalinity (CaCO3)		251	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	08/23/24	1445	2661533
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661392

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	EPA 353.2 Low Level	
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: September 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID: ARK-ARAMW-9
Sample ID: 682093010
Matrix: WG
Collect Date: 20-AUG-24 11:50
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00100
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		35.2	3.35	10.0	mg/L		50	CH6	08/26/24	2017	2662125	1
Sulfate		416	6.65	20.0	mg/L		50					
Fluoride		0.889	0.0330	0.100	mg/L		1	CH6	08/24/24	2342	2662125	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1212	2661395	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Aluminum		0.0744	0.0193	0.0500	mg/L	1.00	1	BAJ	09/01/24	1354	2661534	4
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0490	0.00520	0.0150	mg/L	1.00	1					
Lithium	J	0.00958	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.140	0.00100	0.00500	mg/L	1.00	1					
Calcium		160	0.400	1.00	mg/L	1.00	5	BAJ	09/01/24	1347	2661534	5
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	08/31/24	1909	2661534	6
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0105	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					
Iron		0.653	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Magnesium		11.1	0.0100	0.0300	mg/L	1.00	1					
Molybdenum		0.00237	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.00	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		75.0	0.400	1.25	mg/L	1.00	5	BAJ	08/31/24	1912	2661534	7
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	AXH3	08/23/24	0728	2660961	8
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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Certificate of Analysis

Report Date: September 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID: ARK-ARAMW-9 Project: GPCC00100
Sample ID: 682093010 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		670	23.8	100	mg/L			KLP1	08/27/24	1058	2663138	9
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		91.9	0.725	2.00	mg/L			JW2	08/22/24	1120	2661203	10
Bicarbonate alkalinity (CaCO3)		91.9	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 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661392
SW846 3005A	ICP-MS 3005A PREP	BB2	08/23/24	1445	2661533

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	EPA 353.2 Low Level	
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: September 5, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-AP2-EB-03	Project:	GPCC00100
Sample ID:	682093011	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	20-AUG-24 14:40		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	J	0.187	0.0670	0.200	mg/L		1	CH6	08/25/24	0114	2662125	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1141	2661400	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/01/24	1344	2661534	3
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	08/31/24	1915	2661534	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					
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					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	AXH3	08/23/24	0739	2660961	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	08/27/24	1058	2663138	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/23/24	1445	2661533
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661398

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-AP2-EB-03	Project:	GPCC00100
Sample ID:	682093011	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	EPA 353.2 Low Level	
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 5, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-AP2-FD-03	Project:	GPCC00100
Sample ID:	682093012	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	20-AUG-24 12:00		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		108	1.33	4.00	mg/L		10	CH6	08/26/24	2047	2662125	1
Chloride		4.53	0.0670	0.200	mg/L		1	CH6	08/25/24	0145	2662125	2
Fluoride		0.198	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1146	2661400	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	08/31/24	1920	2661534	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.111	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		0.00298	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Molybdenum		0.187	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					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/01/24	1405	2661534	5
Lithium	J	0.00550	0.00300	0.0100	mg/L	1.00	1					
Boron		0.657	0.0260	0.0750	mg/L	1.00	5	BAJ	09/01/24	1331	2661534	6
Calcium		77.4	0.400	1.00	mg/L	1.00	5					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		2.98	0.0350	0.100	mg/L		5	AXH3	08/23/24	0740	2660961	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		438	2.38	10.0	mg/L			KLP1	08/27/24	1058	2663138	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	08/23/24	1445	2661533
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661398

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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-AP2-FD-03	Project:	GPCC00100
Sample ID:	682093012	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	EPA 353.2 Low Level	
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 5, 2024

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-AP2-FB-03	Project:	GPCC00100
Sample ID:	682093013	Client ID:	GPCC001
Matrix:	WQ		
Collect Date:	20-AUG-24 12:00		
Receive Date:	21-AUG-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	CH6	08/25/24	0216	2662125	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/26/24	1147	2661400	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	BAJ	09/01/24	1345	2661534	3
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	08/31/24	1926	2661534	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					
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					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite		0.0810	0.00700	0.0200	mg/L		1	AXH3	08/23/24	0742	2660961	5
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			KLP1	08/27/24	1058	2663138	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/23/24	1030	2661398
SW846 3005A	ICP-MS 3005A PREP	BB2	08/23/24	1445	2661533

GEL LABORATORIES LLC
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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-AP2-FB-03	Project:	GPCC00100
Sample ID:	682093013	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	EPA 353.2 Low Level	
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

QC Summary

Report Date: September 5, 2024

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

Contact: **Joju Abraham**

Workorder: **682093**

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

QC Summary

Workorder: **682093**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography												
Batch 2662125												
QC1205833348 682055001 PS												
Chloride	5.00		4.32		9.65	mg/L		106	(90%-110%)	CH6	08/26/24	12:03
Fluoride	2.50	J	0.0610		2.45	mg/L		95.6	(90%-110%)		08/24/24	14:57
Sulfate	10.0		2.76		12.5	mg/L		97.5	(90%-110%)			
QC1205833350 682055003 PS												
Chloride	5.00		0.530		5.20	mg/L		93.3	(90%-110%)		08/24/24	16:29
Fluoride	2.50	J	0.0768		2.67	mg/L		104	(90%-110%)		08/26/24	13:36
Sulfate	10.0		7.34		17.2	mg/L		99.1	(90%-110%)		08/24/24	16:29
Metals Analysis - ICPMS												
Batch 2661534												
QC1205831833 LCS												
Aluminum	2.00				2.05	mg/L		102	(80%-120%)	BAJ	09/01/24	13:10
Antimony	0.0500				0.0488	mg/L		97.5	(80%-120%)		08/31/24	17:31
Arsenic	0.0500				0.0477	mg/L		95.4	(80%-120%)			
Barium	0.0500				0.0489	mg/L		97.9	(80%-120%)			
Beryllium	0.0500				0.0502	mg/L		100	(80%-120%)		09/01/24	13:10
Boron	0.100				0.0999	mg/L		99.9	(80%-120%)			
Cadmium	0.0500				0.0495	mg/L		99	(80%-120%)		08/31/24	17:31

QC Summary

Workorder: **682093**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661534										
Calcium	2.00			2.09	mg/L		104	(80%-120%)	BAJ	09/01/24 13:10
Chromium	0.0500			0.0483	mg/L		96.5	(80%-120%)		08/31/24 17:31
Cobalt	0.0500			0.0484	mg/L		96.8	(80%-120%)		
Iron	2.00			1.92	mg/L		95.9	(80%-120%)		
Lead	0.0500			0.0496	mg/L		99.1	(80%-120%)		
Lithium	0.0500			0.0491	mg/L		98.2	(80%-120%)		09/01/24 13:10
Magnesium	2.00			2.07	mg/L		103	(80%-120%)		08/31/24 17:31
Manganese	0.0500			0.0493	mg/L		98.7	(80%-120%)		09/01/24 13:10
Molybdenum	0.0500			0.0492	mg/L		98.3	(80%-120%)		08/31/24 17:31
Potassium	2.00			1.99	mg/L		99.3	(80%-120%)		
Selenium	0.0500			0.0479	mg/L		95.7	(80%-120%)		
Silver	0.0500			0.0506	mg/L		101	(80%-120%)		
Sodium	2.00			2.06	mg/L		103	(80%-120%)		
Thallium	0.0500			0.0462	mg/L		92.4	(80%-120%)		

QC Summary

Workorder: **682093**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661534										
QC1205831832 MB										
Aluminum			U	ND	mg/L				BAJ	09/01/24 13:09
Antimony			U	ND	mg/L					08/31/24 17:28
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					09/01/24 13:09
Boron			U	ND	mg/L					
Cadmium			U	ND	mg/L					08/31/24 17:28
Calcium			U	ND	mg/L					09/01/24 13:09
Chromium			U	ND	mg/L					08/31/24 17:28
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					
Lead			U	ND	mg/L					
Lithium			U	ND	mg/L					09/01/24 13:09
Magnesium			U	ND	mg/L					08/31/24 17:28

QC Summary

Workorder: **682093**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661534											
Manganese				U	ND	mg/L				BAJ	09/01/24 13:09
Molybdenum				U	ND	mg/L					08/31/24 17:28
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Silver				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205831834 682093001 MS											
Aluminum	2.00	U	ND		2.10	mg/L		105	(75%-125%)		09/01/24 13:13
Antimony	0.0500	U	ND		0.0501	mg/L		100	(75%-125%)		08/31/24 17:42
Arsenic	0.0500	U	ND		0.0497	mg/L		99.3	(75%-125%)		
Barium	0.0500		0.0293		0.0793	mg/L		100	(75%-125%)		
Beryllium	0.0500	U	ND		0.0510	mg/L		102	(75%-125%)		09/01/24 13:13
Boron	0.100		0.0236		0.118	mg/L		94.2	(75%-125%)		
Cadmium	0.0500	U	ND		0.0501	mg/L		100	(75%-125%)		08/31/24 17:42

QC Summary

Workorder: **682093**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661534											
Calcium	2.00		8.29		10.7	mg/L		N/A	(75%-125%)	BAJ	09/01/24 13:13
Chromium	0.0500	U	ND		0.0510	mg/L		99.4	(75%-125%)		08/31/24 17:42
Cobalt	0.0500	U	ND		0.0487	mg/L		97.4	(75%-125%)		
Iron	2.00	U	ND		1.94	mg/L		96.2	(75%-125%)		
Lead	0.0500	U	ND		0.0493	mg/L		98.6	(75%-125%)		
Lithium	0.0500	J	0.00376		0.0545	mg/L		102	(75%-125%)		09/01/24 13:13
Magnesium	2.00		3.52		5.76	mg/L		112	(75%-125%)		08/31/24 17:42
Manganese	0.0500	U	ND		0.0502	mg/L		99.4	(75%-125%)		09/01/24 13:13
Molybdenum	0.0500	J	0.000375		0.0527	mg/L		105	(75%-125%)		08/31/24 17:42
Potassium	2.00		2.03		4.10	mg/L		104	(75%-125%)		
Selenium	0.0500	U	ND		0.0486	mg/L		97	(75%-125%)		
Silver	0.0500	U	ND		0.0516	mg/L		103	(75%-125%)		
Sodium	2.00		9.61		11.8	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0466	mg/L		93.3	(75%-125%)		

QC Summary

Workorder: **682093**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2661534											
QC1205831835 682093001 MSD											
Aluminum	2.00	U	ND		2.15	mg/L	2.29	107	(0%-20%)	BAJ	09/01/24 13:14
Antimony	0.0500	U	ND		0.0447	mg/L	11.2	89.4	(0%-20%)		08/31/24 17:45
Arsenic	0.0500	U	ND		0.0502	mg/L	1.18	100	(0%-20%)		
Barium	0.0500		0.0293		0.0804	mg/L	1.38	102	(0%-20%)		
Beryllium	0.0500	U	ND		0.0520	mg/L	1.89	104	(0%-20%)		09/01/24 13:14
Boron	0.100		0.0236		0.123	mg/L	4.03	99.1	(0%-20%)		
Cadmium	0.0500	U	ND		0.0509	mg/L	1.51	102	(0%-20%)		08/31/24 17:45
Calcium	2.00		8.29		10.8	mg/L	1.21	N/A	(0%-20%)		09/01/24 13:14
Chromium	0.0500	U	ND		0.0517	mg/L	1.45	101	(0%-20%)		08/31/24 17:45
Cobalt	0.0500	U	ND		0.0501	mg/L	2.7	100	(0%-20%)		
Iron	2.00	U	ND		2.02	mg/L	4.4	101	(0%-20%)		
Lead	0.0500	U	ND		0.0508	mg/L	3.07	102	(0%-20%)		
Lithium	0.0500	J	0.00376		0.0549	mg/L	0.755	102	(0%-20%)		09/01/24 13:14
Magnesium	2.00		3.52		5.81	mg/L	0.904	114	(0%-20%)		08/31/24 17:45

QC Summary

Workorder: **682093**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch 2661534												
Manganese	0.0500	U	ND		0.0515	mg/L	2.54	102	(0%-20%)	BAJ	09/01/24	13:14
Molybdenum	0.0500	J	0.000375		0.0470	mg/L	11.4	93.2	(0%-20%)		08/31/24	17:45
Potassium	2.00		2.03		4.24	mg/L	3.18	111	(0%-20%)			
Selenium	0.0500	U	ND		0.0501	mg/L	3.03	100	(0%-20%)			
Silver	0.0500	U	ND		0.0527	mg/L	2.21	105	(0%-20%)			
Sodium	2.00		9.61		12.0	mg/L	1.61	N/A	(0%-20%)			
Thallium	0.0500	U	ND		0.0481	mg/L	3.04	96.2	(0%-20%)			
QC1205831836 682093001 SDILT												
Aluminum		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/01/24	13:17
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/24	17:50
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium			29.3		5.98	ug/L	1.93		(0%-20%)			
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		09/01/24	13:17
Boron			23.6	J	9.75	ug/L	106		(0%-20%)			
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/24	17:50

QC Summary

Workorder: **682093**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2661534										
Calcium		8290		1700	ug/L	2.85		(0%-20%)	BAJ	09/01/24 13:17
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		08/31/24 17:50
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%)		
Lithium	J	3.76	U	ND	ug/L	N/A		(0%-20%)		09/01/24 13:17
Magnesium		3520		737	ug/L	4.66		(0%-20%)		08/31/24 17:50
Manganese	U	ND	U	ND	ug/L	N/A		(0%-20%)		09/01/24 13:17
Molybdenum	J	0.375	U	ND	ug/L	N/A		(0%-20%)		08/31/24 17:50
Potassium		2030		410	ug/L	1.27		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Silver	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		9610		2060	ug/L	6.95		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **682093**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2660787										
QC1205830153 681888001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/23/24 10:41
QC1205830149 LCS										
Mercury	0.00200			0.00193	mg/L		96.6	(80%-120%)		08/23/24 10:23
QC1205830148 MB										
Mercury			U	ND	mg/L					08/23/24 10:21
QC1205830154 681888001 MS										
Mercury	0.00200	U	ND	0.00195	mg/L		97.7	(75%-125%)		08/23/24 10:43
QC1205830155 681888001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		08/23/24 10:44
Batch 2661395										
QC1205831541 682123001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/26/24 12:15
QC1205831540 LCS										
Mercury	0.00200			0.00205	mg/L		102	(80%-120%)		08/26/24 11:59
QC1205831539 MB										
Mercury			U	ND	mg/L					08/26/24 11:57
QC1205831542 682123001 MS										
Mercury	0.00200	U	ND	0.00196	mg/L		98	(75%-125%)		08/26/24 12:17
QC1205831543 682123001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		08/26/24 12:18

QC Summary

Workorder: **682093**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury											
Batch 2661400											
QC1205831549 681947004 DUP											
Mercury		U	ND	U	ND	mg/L	N/A			JP2	08/26/24 11:18
QC1205831548 LCS											
Mercury	0.00200				0.00209	mg/L		104	(80%-120%)		08/26/24 11:10
QC1205831547 MB											
Mercury				U	ND	mg/L					08/26/24 11:08
QC1205831550 681947004 MS											
Mercury	0.00200	U	ND		0.00212	mg/L		106	(75%-125%)		08/26/24 11:20
QC1205831551 681947004 SDILT											
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)		08/26/24 11:21
Nutrient Analysis											
Batch 2660961											
QC1205830578 681878004 DUP											
Nitrogen, Nitrate/Nitrite			3.65		3.65	mg/L	0.137		(0%-20%)	AXH3	08/23/24 06:55
QC1205830577 LCS											
Nitrogen, Nitrate/Nitrite	1.00				1.02	mg/L		102	(90%-110%)		08/23/24 06:52
QC1205830576 MB											
Nitrogen, Nitrate/Nitrite				U	ND	mg/L					08/23/24 06:51
QC1205830579 681878004 PS											
Nitrogen, Nitrate/Nitrite	1.00		0.730		1.72	mg/L		98.7	(90%-110%)		08/23/24 06:57
Solids Analysis											
Batch 2663138											
QC1205835765 681869001 DUP											
Total Dissolved Solids			11000		10600	mg/L	3.42		(0%-5%)	KLP1	08/27/24 10:58

QC Summary

Workorder: **682093**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2663138										
QC1205835764 LCS										
Total Dissolved Solids	300			296	mg/L		98.7	(95%-105%)	KLP1	08/27/24 10:58
QC1205835763 MB										
Total Dissolved Solids			U	ND	mg/L					08/27/24 10:58
Titration and Ion Analysis										
Batch 2661203										
QC1205831115 LCS										
Alkalinity, Total as CaCO3	50.0			52.9	mg/L		106	(90%-110%)	JW2	08/22/24 11:01
QC1205831120 LCS										
Alkalinity, Total as CaCO3	15.0			14.5	mg/L		96.7	(90%-110%)		08/22/24 11:03
QC1205831121 LCSD										
Alkalinity, Total as CaCO3	50.0			53.3	mg/L	0.753	107	(0%-20%)		08/22/24 11:02
QC1205831122 LCSD										
Alkalinity, Total as CaCO3	15.0			14.9	mg/L	2.72	99.3	(0%-20%)		08/22/24 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
- 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

QC Summary

Workorder: **682093**

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

^ 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 #: 682093

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2661534

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2661533

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

GEL Sample ID#	Client Sample Identification
682093001	ARK-ARGWA-19
682093002	ARK-ARGWA-20
682093003	ARK-ARGWC-21
682093004	ARK-ARGWC-22
682093005	ARK-ARGWC-23
682093006	ARK-ARAMW-1
682093007	ARK-ARAMW-2
682093008	ARK-ARAMW-7
682093009	ARK-ARAMW-8
682093010	ARK-ARAMW-9
682093011	ARK-AP2-EB-03
682093012	ARK-AP2-FD-03
682093013	ARK-AP2-FB-03
1205831832	Method Blank (MB)**ICP-MS**
1205831833	Laboratory Control Sample (LCS)
1205831836	682093001(ARK-ARGWA-19L) Serial Dilution (SD)
1205831834	682093001(ARK-ARGWA-19S) Matrix Spike (MS)
1205831835	682093001(ARK-ARGWA-19SD) 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 682093003 (ARK-ARGWC-21), 682093004 (ARK-ARGWC-22), 682093005 (ARK-ARGWC-23), 682093006 (ARK-ARAMW-1), 682093007 (ARK-ARAMW-2), 682093008 (ARK-ARAMW-7), 682093009 (ARK-ARAMW-8), 682093010 (ARK-ARAMW-9) and 682093012 (ARK-AP2-FD-03) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	682093								
	003	**004**	**005**	**006**	**007**	**008**	**009**	**010**	**012**
Boron	10X	25X	5X	25X	25X	50X	5X	1X	5X
Calcium	10X	25X	5X	25X	25X	50X	5X	5X	5X
Magnesium	1X	5X	1X	1X	1X	5X	1X	1X	
Manganese	1X	25X	1X	1X	1X	50X	1X	1X	
Sodium	1X	1X	1X	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# 40
Analytical Batch: 2660787

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2660785

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

GEL Sample ID#	Client Sample Identification
682093001	ARK-ARGWA-19
682093002	ARK-ARGWA-20
682093003	ARK-ARGWC-21
682093004	ARK-ARGWC-22
1205830148	Method Blank (MB)**CVAA**
1205830149	Laboratory Control Sample (LCS)
1205830155	681888001(NonSDGL) Serial Dilution (SD)
1205830153	681888001(NonSDGD) Sample Duplicate (DUP)
1205830154	681888001(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: 2661395

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 40
Preparation Batch: 2661392

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

GEL Sample ID#	Client Sample Identification
682093005	ARK-ARGWC-23
682093006	ARK-ARAMW-1
682093007	ARK-ARAMW-2
682093008	ARK-ARAMW-7
682093009	ARK-ARAMW-8
682093010	ARK-ARAMW-9
1205831539	Method Blank (MB)**CVAA**
1205831540	Laboratory Control Sample (LCS)
1205831543	682123001(NonSDGL) Serial Dilution (SD)
1205831541	682123001(NonSDGD) Sample Duplicate (DUP)
1205831542	682123001(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: 2661400

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

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

GEL Sample ID#	Client Sample Identification
682093011	ARK-AP2-EB-03
682093012	ARK-AP2-FD-03
682093013	ARK-AP2-FB-03
1205831547	Method Blank (MB)**CVAA**
1205831548	Laboratory Control Sample (LCS)
1205831551	681947004(NonSDGL) Serial Dilution (SD)
1205831549	681947004(NonSDGD) Sample Duplicate (DUP)
1205831550	681947004(NonSDGS) Matrix Spike (MS)

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

Data Summary:

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

General Chemistry

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

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

GEL Sample ID#	Client Sample Identification
682093001	ARK-ARGWA-19
682093002	ARK-ARGWA-20
682093003	ARK-ARGWC-21
682093004	ARK-ARGWC-22
682093005	ARK-ARGWC-23
682093006	ARK-ARAMW-1
682093007	ARK-ARAMW-2
682093008	ARK-ARAMW-7
682093009	ARK-ARAMW-8
682093010	ARK-ARAMW-9
682093011	ARK-AP2-EB-03
682093012	ARK-AP2-FD-03
682093013	ARK-AP2-FB-03
1205833345	Method Blank (MB)
1205833346	Laboratory Control Sample (LCS)
1205833347	682055001(NonSDG) Sample Duplicate (DUP)
1205833348	682055001(NonSDG) Post Spike (PS)
1205833349	682055003(NonSDG) Sample Duplicate (DUP)
1205833350	682055003(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 1205833347 (Non SDG 682055001DUP), 1205833348 (Non SDG 682055001PS), 682093003 (ARK-ARGWC-21), 682093004 (ARK-ARGWC-22), 682093005 (ARK-ARGWC-23), 682093006 (ARK-ARAMW-1), 682093007 (ARK-ARAMW-2), 682093008 (ARK-ARAMW-7), 682093009 (ARK-ARAMW-8), 682093010 (ARK-ARAMW-9) and 682093012 (ARK-AP2-FD-03) were diluted because target analyte concentrations exceeded the calibration range. Sample 682093008 (ARK-ARAMW-7) was diluted to minimize matrix effects on instrument performance. Samples 1205833349 (Non SDG 682055003DUP), 1205833350 (Non SDG 682055003PS) and 682093008 (ARK-ARAMW-7) 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	682093								
	003	**004**	**005**	**006**	**007**	**008**	**009**	**010**	**012**
Chloride	1X	1X	1X	1X	1X	2X	1X	50X	1X
Fluoride	1X	1X	1X	1X	1X	2X	1X	1X	1X
Sulfate	20X	50X	10X	20X	20X	100X	10X	50X	10X

Miscellaneous Information

Manual Integrations
Samples 682093001 (ARK-ARGWA-19), 682093002 (ARK-ARGWA-20), 682093003 (ARK-ARGWC-21), 682093004 (ARK-ARGWC-22), 682093005 (ARK-ARGWC-23), 682093006 (ARK-ARAMW-1), 682093007 (ARK-ARAMW-2), 682093008 (ARK-ARAMW-7), 682093009 (ARK-ARAMW-8), 682093010 (ARK-ARAMW-9) and 682093012 (ARK-AP2-FD-03) were manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Nitrate/Nitrite Cad Redux Low Level**
Analytical Method: EPA 353.2 Low Level
Analytical Procedure: GL-GC-E-128 REV# 15
Analytical Batch: 2660961

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

GEL Sample ID#	Client Sample Identification
682093001	ARK-ARGWA-19
682093002	ARK-ARGWA-20
682093003	ARK-ARGWC-21
682093004	ARK-ARGWC-22
682093005	ARK-ARGWC-23
682093006	ARK-ARAMW-1
682093007	ARK-ARAMW-2
682093008	ARK-ARAMW-7
682093009	ARK-ARAMW-8
682093010	ARK-ARAMW-9
682093011	ARK-AP2-EB-03
682093012	ARK-AP2-FD-03
682093013	ARK-AP2-FB-03
1205830576	Method Blank (MB)
1205830577	Laboratory Control Sample (LCS)
1205830578	681878004(NonSDG) Sample Duplicate (DUP)
1205830579	681878004(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 1205830578 (Non SDG 681878004DUP), 1205830579 (Non SDG 681878004PS), 682093001 (ARK-ARGWA-19) and 682093012 (ARK-AP2-FD-03) were diluted because target analyte concentrations exceeded the calibration range. The following samples 682093002 (ARK-ARGWA-20) and 682093005 (ARK-ARGWC-23) in this sample group were diluted due to matrix interference. 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	682093			
	001	002	005	012
Nitrogen, Nitrate/Nitrite	5X	5X	5X	5X

Sample Re-analysis
Sample was re-analyzed due to over dilution. 682093004 (ARK-ARGWC-22).

Product: **Solids, Total Dissolved**
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 21
Analytical Batch: 2663138

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

GEL Sample ID#	Client Sample Identification
682093001	ARK-ARGWA-19
682093002	ARK-ARGWA-20
682093003	ARK-ARGWC-21
682093004	ARK-ARGWC-22
682093005	ARK-ARGWC-23
682093006	ARK-ARAMW-1
682093007	ARK-ARAMW-2
682093008	ARK-ARAMW-7
682093009	ARK-ARAMW-8
682093010	ARK-ARAMW-9
682093011	ARK-AP2-EB-03
682093012	ARK-AP2-FD-03
682093013	ARK-AP2-FB-03
1205835763	Method Blank (MB)
1205835764	Laboratory Control Sample (LCS)
1205835765	681869001(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. 1205835765 (Non SDG 681869001DUP), 682093008 (ARK-ARAMW-7) and 682093010 (ARK-ARAMW-9).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 16
Analytical Batch: 2661203

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

GEL Sample ID#	Client Sample Identification
682093001	ARK-ARGWA-19
682093002	ARK-ARGWA-20
682093003	ARK-ARGWC-21
682093004	ARK-ARGWC-22
682093005	ARK-ARGWC-23
682093006	ARK-ARAMW-1
682093007	ARK-ARAMW-2
682093008	ARK-ARAMW-7
682093009	ARK-ARAMW-8
682093010	ARK-ARAMW-9
1205831115	Laboratory Control Sample (LCS)
1205831120	Laboratory Control Sample (LCS)
1205831121	Laboratory Control Sample Duplicate (LCSD)
1205831122	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 # 175569434
GEL Quote #:
COC Number [1]: 2 Sample Cooler(s): 5
PO Number: GPC82177-0005

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

Chain of Custody and Analytical Request

GEL Work Order Number: ***GEL Project Manager: Alaina Pinnick***

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

682093

Client Name: Georgia Power — Phone # (937-344-6533)

Project/Site Name: Plant Arkwright Ash Pond _2_ — Fax: N/A

Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308

Collected By: Jackson Bankston, Zach Levy, John Myer, Dylan Quintal — Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.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: (If yes, please supply isotopic info.) Radioactive	(7) Known or possible Hazards	Total number of containers	Ag (App. I) (6020B) NI	Metals App. III (B, Ca) (6020B) NI	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	Metals App. IV (6020B) see Additional Remarks NI	RAD 226-228 Cmbd	Mercury (7470B) NI	Metals Al, K, Mg, Na, Fe, Mn (6020B) NI	Fe2+/ Mn2+ (6020B) Field Filtered	Nitrate/ Nitrite (EPA Method 353.2) SA	<-- Preservative Type (6)
ARK-ARGWA-19	08-20-24	0910	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWA-20	08-20-24	0935	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-21	08-20-24	1515	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-22	08-20-24	1405	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-23	08-20-24	12:50	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARAMW-1	08-20-24	1315	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARAMW-2	08-20-24	1145	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARAMW-7	08-20-24	1305	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARAMW-8	08-20-24	0935	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARAMW-9	08-20-24	1150	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	

Comments (task_code: ARK-CCR-ASSMT-2024S2)

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/20/24			8/21/24
2						8/21/24 1400
3						

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

Fax Results: [ ] Yes [X] No

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

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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.)

Page: 2 of 2
Project # 175569434
GEL Quote #:
COC Number (1): 2 Sample Cooler(s): 5
PO Number: GPC82177-0005

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

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Alaina Pinnick*

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

Client Name: Georgia Power Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _2_ Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Myer, Dylan Quintal
Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.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 Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6)	Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-AP2-EB-03	08-20-24	1440	EB	N	WQ			7		X		X	X	X	X	X			X		
ARK-AP2-FD-03	08-20-24	NA	FD	N	WQ			7		X		X	X	X	X	X			X		
ARK-AP2-FB-03	08-20-24	1200	FB	N	WQ			7		X		X	X	X	X	X			X		

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/21/24			8/21/24
2						8/21/24 1400
3						

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

Fax Results: [ ] Yes [X] No

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

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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.)

682138 682097 682084
682142 682098 AP
682093 682097 WT 8/26/24

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: CLM	**Date Received:** 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other cooler 1-0° 3-1° 5-1° 7-0° 9-1° 11-1° 2-0° 4-0° 6-0° 8-1° 10-0°

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) ARK-A RFMW-8 (2 of 3) plastic 1,000 has 8/19/24
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):
10.) wrote on samples, per COC it should be 8/20/24.

PM (or PMA) review: Initials _____ Date _____ Page ____ of ____

GL-CHL-SR-001 Rev 7

Page: 1 of 2
Project # 175569434
GEL Quote #:
COC Number [1]: 2 Sample Cooler(s): 5
PO Number: GPC82177-0005

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

Chain of Custody and Analytical Request

GEL Work Order Number: ***GEL Project Manager: Alaina Pinnick***

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

682093

Client Name: Georgia Power — Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _2_ — Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Myer, Dylan Quintal — Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.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 Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6) Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-ARGWA-19	08-20-24	0910	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWA-20	08-20-24	0935	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-21	08-20-24	1515	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-22	08-20-24	1405	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-23	08-20-24	12:50	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARAMW-1	08-20-24	1315	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARAMW-2	08-20-24	1145	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARAMW-7	08-20-24	1305	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARAMW-8	08-20-24	0935	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARAMW-9	08-20-24	1150	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/21/24			8/21/24
2						8/21/24 1400
3						

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

Fax Results: [ ] Yes [X] No

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

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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.)

Page: 2 of 2
Project # 175569434
GEL Quote #:
COC Number (1): 2 Sample Cooler(s): 5
PO Number: GPC82177-0005

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

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Alaina Pinnick*

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

Client Name: Georgia Power Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _2_ Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Myer, Dylan Quintal
Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.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 Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6)	Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-AP2-EB-03	08-20-24	1440	EB	N	WQ			7		X		X	X	X	X	X			X		
ARK-AP2-FD-03	08-20-24	NA	FD	N	WQ			7		X		X	X	X	X	X			X		
ARK-AP2-FB-03	08-20-24	1200	FB	N	WQ			7		X		X	X	X	X	X			X		

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/21/24			8/21/24
2						8/21/24 1400
3						

TAT Requested: Normal: X Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: [ ] Yes [X] No

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

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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.)

682138 682097 682084
682142 682098 AP
682093 ~~682097~~ WJ 8/26/24

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: CLM	**Date Received:** 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other cooler 1-0° 3-1° 5-1° 7-0° 9-1° 11-1° 2-0° 4-0° 6-0° 8-1° 10-0°

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 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) ARK-A RFMW-8 (2 of 3) plastic 1,000 has 8/19/24
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):
10.) wrote on samples, per COC it should be 8/20/24.

PM (or PMA) review: Initials WJ Date 8/26/24 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

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Arkwright CCR Groundwater Compliance 175569434
Work Order: 682098

Dear Joju Abraham:

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
682098001	ARK-ARGWA-19	Ground Water	08/20/24 09:10	08/21/24 14:00
682098002	ARK-ARGWA-20	Ground Water	08/20/24 09:35	08/21/24 14:00
682098003	ARK-ARGWC-21	Ground Water	08/20/24 15:15	08/21/24 14:00
682098004	ARK-ARGWC-22	Ground Water	08/20/24 14:05	08/21/24 14:00
682098005	ARK-ARGWC-23	Ground Water	08/20/24 12:50	08/21/24 14:00
682098006	ARK-ARAMW-1	Ground Water	08/20/24 13:15	08/21/24 14:00
682098007	ARK-ARAMW-2	Ground Water	08/20/24 11:45	08/21/24 14:00
682098008	ARK-ARAMW-7	Ground Water	08/20/24 13:05	08/21/24 14:00
682098009	ARK-ARAMW-8	Ground Water	08/20/24 09:35	08/21/24 14:00
682098010	ARK-ARAMW-9	Ground Water	08/20/24 11:50	08/21/24 14:00

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	27-AUG-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
SW846 3005A/6020B	01-SEP-2024
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: GPC82177-0005
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: 682098 GEL Work Order: 682098

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 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, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARGWA-19	Project:	GPCC00100
Sample ID:	682098001	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-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 Dissolved Fe & Mn "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	2051	2661564	1
Manganese	U	ND	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	08/27/24	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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARGWA-20	Project:	GPCC00100
Sample ID:	682098002	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 09:35		
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 Dissolved Fe & Mn "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	2056	2661564	1
Manganese	J	0.00164	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	08/27/24	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, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARGWC-21	Project:	GPCC00100
Sample ID:	682098003	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 15:15		
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 Dissolved Fe & Mn "As Received"												
Iron		0.483	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	2102	2661564	1
Manganese		0.307	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	08/27/24	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, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARGWC-22	Project:	GPCC00100
Sample ID:	682098004	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 14:05		
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 Dissolved Fe & Mn "As Received"												
Iron		6.31	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	2108	2661564	1
Manganese		18.0	0.100	0.500	mg/L	1.00	100	BAJ	09/01/24	1214	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	Lc/LC: Critical Level
DL: 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, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARGWC-23	Project:	GPCC00100
Sample ID:	682098005	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 12:50		
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 Dissolved Fe & Mn "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	2119	2661564	1
Manganese		0.239	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	08/27/24	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, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARAMW-1	Project:	GPCC00100
Sample ID:	682098006	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 13:15		
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 Dissolved Fe & Mn "As Received"												
Iron	J	0.0961	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	2125	2661564	1
Manganese		0.131	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	08/27/24	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
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Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARAMW-2	Project:	GPCC00100
Sample ID:	682098007	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 11:45		
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 Dissolved Fe & Mn "As Received"												
Iron		1.83	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	2130	2661564	1
Manganese		0.348	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	08/27/24	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, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARAMW-7	Project:	GPCC00100
Sample ID:	682098008	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 13:05		
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 Dissolved Fe & Mn "As Received"												
Manganese		14.9	0.100	0.500	mg/L	1.00	100	BAJ	09/01/24	1216	2661564	1
Iron		4.98	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	2142	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	Lc/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, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARAMW-8	Project:	GPCC00100
Sample ID:	682098009	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 09:35		
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 Dissolved Fe & Mn "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	2147	2661564	1
Manganese		0.187	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	08/27/24	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

Certificate of Analysis

Report Date: September 5, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater Compliance175569434

Client Sample ID:	ARK-ARAMW-9	Project:	GPCC00100
Sample ID:	682098010	Client ID:	GPCC001
Matrix:	WG		
Collect Date:	20-AUG-24 11:50		
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 Dissolved Fe & Mn "As Received"												
Iron		0.428	0.0330	0.100	mg/L	1.00	1	BAJ	08/31/24	2153	2661564	1
Manganese		0.136	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	08/27/24	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, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **682098**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2661564											
QC1205831936 LCS											
Iron	2.00			1.98	mg/L		98.9	(80%-120%)	BAJ	08/31/24	19:40
Manganese	0.0500			0.0481	mg/L		96.2	(80%-120%)			
QC1205831935 MB											
Iron			U	ND	mg/L					08/31/24	19:37
Manganese			U	ND	mg/L						
QC1205831937 682065001 MS											
Iron	2.00	19.3		20.5	mg/L		N/A	(75%-125%)		08/31/24	19:51
Manganese	0.0500	0.194		0.236	mg/L		83.7	(75%-125%)			
QC1205831938 682065001 MSD											
Iron	2.00	19.3		20.8	mg/L	1.34	N/A	(0%-20%)		08/31/24	19:54
Manganese	0.0500	0.194		0.238	mg/L	1.13	89.1	(0%-20%)			
QC1205831939 682065001 SDILT											
Iron		19300		4190	ug/L	8.92		(0%-20%)		08/31/24	20:00
Manganese		194		41.8	ug/L	7.69		(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

QC Summary

Workorder: **682098**

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

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 #: 682098

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
682098001	ARK-ARGWA-19
682098002	ARK-ARGWA-20
682098003	ARK-ARGWC-21
682098004	ARK-ARGWC-22
682098005	ARK-ARGWC-23
682098006	ARK-ARAMW-1
682098007	ARK-ARAMW-2
682098008	ARK-ARAMW-7
682098009	ARK-ARAMW-8
682098010	ARK-ARAMW-9
1205831935	Method Blank (MB)**ICP-MS**
1205831936	Laboratory Control Sample (LCS)
1205831939	682065001(NonSDGL) Serial Dilution (SD)
1205831937	682065001(NonSDGS) Matrix Spike (MS)
1205831938	682065001(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. Samples 682098004 (ARK-ARGWC-22) and 682098008 (ARK-ARAMW-7) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	682098	
	004	**008**
Manganese	100X	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 1
Project # 175569434
GEL Quote #:
COC Number (1): 3 Sample Cooler(s): 5
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Alaina Pinnick*

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

682098

Client Name: Georgia Power Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _2_ Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Myer, Dylan Quintal
Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.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 Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6)
ARK-ARGWA-19	08-20-24	0910	N	Y	WG			1										X		
ARK-ARGWA-20	08-20-24	0935	N	Y	WG			1										X		
ARK-ARGWC-21	08-20-24	1515	N	Y	WG			1										X		
ARK-ARGWC-22	08-20-24	1405	N	Y	WG			1										X		
ARK-ARGWC-23	08-20-24	12:50	N	Y	WG			1										X		
ARK-ARAMW-1	08-20-24	1315	N	Y	WG			1										X		
ARK-ARAMW-2	08-20-24	1145	N	Y	WG			1										X		
ARK-ARAMW-7	08-20-24	1305	N	Y	WG			1										X		
ARK-ARAMW-8	08-20-24	0935	N	Y	WG			1										X		
ARK-ARAMW-9	08-20-24	1150	N	Y	WG			1										X		

Comments (task_code: ARK-CCR-ASSMT-2024S2)

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/21/24			8/21/24
2						8/21/24 1400
3						

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

Fax Results: [ ] Yes [X] No

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

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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.)

682138 682097 682084
682142 682098 AP
682093 ~~682097~~ WT 8/26/24

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other cooler 1-0° 3-1° 5-1° 7-0° 9-1° 11-1° 2-0° 4-0° 6-0° 8-1° 10-0°

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) ARK-ARAMW-8 (2 of 3) plastic 1,000 has 8/19/24
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):
10.) wrote on samples, per COC it should be 8/20/24.

PM (or PMA) review: Initials WJ Date 8/26/24 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 19, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Arkwright CCR Groundwater Compliance Relog: Radiochemistry
Work Order: 682097

Dear Joju Abraham:

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. The sample containers (2 of 3) for sample ID "ARK0-ARAMW-8" had a collection date of 8/19/24 while the chain of custody documents the collection date as 8/20/24*682097009(ARK-ARAMW-8)*. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
682097001	ARK-ARGWA-19	Ground Water	08/20/24 09:10	08/21/24 14:00
682097002	ARK-ARGWA-20	Ground Water	08/20/24 09:35	08/21/24 14:00
682097003	ARK-ARGWA-21	Ground Water	08/20/24 15:15	08/21/24 14:00
682097004	ARK-ARGWA-22	Ground Water	08/20/24 14:05	08/21/24 14:00
682097005	ARK-ARGWA-23	Ground Water	08/20/24 12:50	08/21/24 14:00
682097006	ARK-ARAMW-1	Ground Water	08/20/24 13:15	08/21/24 14:00
682097007	ARK-ARAMW-2	Ground Water	08/20/24 11:45	08/21/24 14:00
682097008	ARK-ARAMW-7	Ground Water	08/20/24 13:05	08/21/24 14:00
682097009	ARK-ARAMW-8	Ground Water	08/20/24 09:35	08/21/24 14:00
682097010	ARK-ARAMW-9	Ground Water	08/20/24 11:50	08/21/24 14:00
682097011	ARK-AP2-EB-03	Water	08/20/24 14:40	08/21/24 14:00
682097012	ARK-AP2-FD-03	Water	08/20/24 12:00	08/21/24 14:00
682097013	ARK-AP2-FB-03	Water	08/20/24 12:00	08/21/24 14:00

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

Prep Methods and Prep Dates

Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	19-SEP-2024
EPA 903.1 Modified	18-SEP-2024
EPA 904.0/SW846 9320 Modified	17-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: GPC82177-0005
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: 682097 GEL Work Order: 682097

The Qualifiers in this report are defined as follows:

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

** Analyte is a Tracer compound

** Analyte is a surrogate compound

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

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

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

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

Reviewed by Alaina Pinnick

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

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARGWA-19
Sample ID: 682097001
Matrix: WG
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00100
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	1.83	+/-1.31	2.06	+/-1.39	3.00	pCi/L			KP1	09/17/24	1252	2661778	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.65	+/-1.36	2.06	+/-1.45		pCi/L		1	NXL1	09/19/24	1325	2665106	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.815	+/-0.376	0.418	+/-0.394	1.00	pCi/L			MJ2	09/18/24	1010	2661719	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661778	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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARGWA-20 Project: GPCC00100
Sample ID: 682097002 Client ID: GPCC001
Matrix: WG
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

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	0.283	+/-0.817	1.50	+/-0.820	3.00	pCi/L			KP1	09/17/24	1252	2661778	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.969	+/-0.869	1.50	+/-0.880		pCi/L		1	NXL1	09/19/24	1325	2665106	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.686	+/-0.296	0.274	+/-0.319	1.00	pCi/L			MJ2	09/18/24	1010	2661719	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661778	81.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARGWA-21 Project: GPCC00100
Sample ID: 682097003 Client ID: GPCC001
Matrix: WG
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

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	0.868	+/-1.82	3.22	+/-1.84	3.00	pCi/L			KP1	09/17/24	1252	2661778	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.02	+/-1.83	3.22	+/-1.85		pCi/L		1	NXL1	09/19/24	1325	2665106	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.151	+/-0.157	0.231	+/-0.161	1.00	pCi/L			MJ2	09/18/24	1010	2661719	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661778	52.7	(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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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARGWA-22 Project: GPCC00100
Sample ID: 682097004 Client ID: GPCC001
Matrix: WG
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

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	-0.369	+/-0.966	1.92	+/-0.966	3.00	pCi/L			KP1	09/17/24	1252	2661778	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.04	+/-1.03	1.92	+/-1.05		pCi/L		1	NXL1	09/19/24	1325	2665106	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.04	+/-0.349	0.313	+/-0.401	1.00	pCi/L			MJ2	09/18/24	1010	2661719	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661778	79	(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, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARGWA-23 Project: GPCC00100
Sample ID: 682097005 Client ID: GPCC001
Matrix: WG
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

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		1.66	+/-0.917	1.28	+/-1.01	3.00	pCi/L			KP1	09/17/24	1252	2661778	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.10	+/-0.970	1.28	+/-1.06		pCi/L		1	NXL1	09/19/24	1325	2665106	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.438	+/-0.316	0.451	+/-0.326	1.00	pCi/L			MJ2	09/18/24	1010	2661719	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661778	87.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARAMW-1 Project: GPCC00100
Sample ID: 682097006 Client ID: GPCC001
Matrix: WG
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

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	+/-1.27	1.95	+/-1.36	3.00	pCi/L			KP1	09/17/24	1252	2661778	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.47	+/-1.30	1.95	+/-1.40		pCi/L		1	NXL1	09/19/24	1325	2665106	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.508	+/-0.304	0.374	+/-0.314	1.00	pCi/L			MJ2	09/18/24	1010	2661719	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661778	82.3	(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

GEL LABORATORIES LLC
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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARAMW-2
Sample ID: 682097007
Matrix: WG
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00100
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		2.63	+/-1.47	2.25	+/-1.62	3.00	pCi/L			KP1	09/17/24	1252	2661778	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.98	+/-1.49	2.25	+/-1.63		pCi/L		1	NXL1	09/19/24	1325	2665106	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.355	+/-0.245	0.336	+/-0.251	1.00	pCi/L			MJ2	09/18/24	1044	2661719	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661778	84.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARAMW-7
Sample ID: 682097008
Matrix: WG
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00100
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		2.84	+/-1.52	2.29	+/-1.68	3.00	pCi/L			KP1	09/17/24	1252	2661778	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.47	+/-1.54	2.29	+/-1.70		pCi/L		1	NXL1	09/19/24	1325	2665106	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.635	+/-0.262	0.234	+/-0.279	1.00	pCi/L			MJ2	09/18/24	1044	2661719	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661778	79.7	(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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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARAMW-8 Project: GPCC00100
Sample ID: 682097009 Client ID: GPCC001
Matrix: WG
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

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	0.657	+/-1.20	2.09	+/-1.21	3.00	pCi/L			KP1	09/17/24	1252	2661778	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.801	+/-1.24	2.09	+/-1.25		pCi/L		1	NXL1	09/19/24	1325	2665106	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.144	+/-0.316	0.582	+/-0.317	1.00	pCi/L			MJ2	09/18/24	1044	2661719	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661778	84.7	(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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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-ARAMW-9 Project: GPCC00100
Sample ID: 682097010 Client ID: GPCC001
Matrix: WG
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

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	1.82	+/-1.53	2.49	+/-1.60	3.00	pCi/L			KP1	09/17/24	1252	2661778	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.80	+/-1.57	2.49	+/-1.65		pCi/L		1	NXL1	09/19/24	1325	2665106	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.979	+/-0.327	0.247	+/-0.378	1.00	pCi/L			MJ2	09/18/24	1044	2661719	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661778	74.5	(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, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP2-EB-03
Sample ID: 682097011
Matrix: WQ
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00100
Client ID: GPCC001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
GFPC Ra228, Liquid "As Received"														
Radium-228	U	1.18	+/-1.17	1.93	+/-1.21	3.00	pCi/L			KP1	09/17/24	1252	2661778	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.52	+/-1.20	1.93	+/-1.24		pCi/L		1	NXL1	09/19/24	1325	2665106	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.339	+/-0.247	0.347	+/-0.252	1.00	pCi/L			MJ2	09/18/24	1044	2661719	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661778	71.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP2-FD-03
Sample ID: 682097012
Matrix: WQ
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

Project: GPCC00100
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	-0.0196	+/-1.19	2.19	+/-1.19	3.00	pCi/L			KP1	09/17/24	1252	2661778	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.595	+/-1.21	2.19	+/-1.22		pCi/L		1	NXL1	09/19/24	1325	2665106	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.595	+/-0.260	0.207	+/-0.276	1.00	pCi/L			MJ2	09/18/24	1044	2661719	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661778	83.2	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: September 19, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP2-FB-03 Project: GPCC00100
Sample ID: 682097013 Client ID: GPCC001
Matrix: WQ
Collect Date: 20-AUG-24
Receive Date: 21-AUG-24
Collector: Client

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	0.487	+/-0.843	1.49	+/-0.852	3.00	pCi/L			KP1	09/17/24	1252	2661778	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.551	+/-0.870	1.49	+/-0.879		pCi/L		1	NXL1	09/19/24	1325	2665106	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.0635	+/-0.216	0.426	+/-0.216	1.00	pCi/L			MJ2	09/18/24	1044	2661719	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0/SW846 9320 Modified
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2661778	76.7	(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

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2665106

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

GEL Sample ID#	Client Sample Identification
682097001	ARK-ARGWA-19
682097002	ARK-ARGWA-20
682097003	ARK-ARGWA-21
682097004	ARK-ARGWA-22
682097005	ARK-ARGWA-23
682097006	ARK-ARAMW-1
682097007	ARK-ARAMW-2
682097008	ARK-ARAMW-7
682097009	ARK-ARAMW-8
682097010	ARK-ARAMW-9
682097011	ARK-AP2-EB-03
682097012	ARK-AP2-FD-03
682097013	ARK-AP2-FB-03

Data Summary:

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

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2661778

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

GEL Sample ID#	Client Sample Identification
682097001	ARK-ARGWA-19
682097002	ARK-ARGWA-20
682097003	ARK-ARGWA-21
682097004	ARK-ARGWA-22
682097005	ARK-ARGWA-23
682097006	ARK-ARAMW-1
682097007	ARK-ARAMW-2
682097008	ARK-ARAMW-7
682097009	ARK-ARAMW-8

682097010	ARK-ARAMW-9
682097011	ARK-AP2-EB-03
682097012	ARK-AP2-FD-03
682097013	ARK-AP2-FB-03
1205832458	Method Blank (MB)
1205832459	682097001(ARK-ARGWA-19) Sample Duplicate (DUP)
1205832460	Laboratory Control Sample (LCS)

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

Data Summary:

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

Quality Control (QC) Information

RDL Met
The following RDL was met with rounding.

Sample	Analyte	Value
682097003 (ARK-ARGWA-21)	Radium-228	Result 0.868 < MDA 3.22 > RDL 3 pCi/L

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2661719

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

GEL Sample ID#	Client Sample Identification
682097001	ARK-ARGWA-19
682097002	ARK-ARGWA-20
682097003	ARK-ARGWA-21
682097004	ARK-ARGWA-22
682097005	ARK-ARGWA-23
682097006	ARK-ARAMW-1
682097007	ARK-ARAMW-2
682097008	ARK-ARAMW-7
682097009	ARK-ARAMW-8
682097010	ARK-ARAMW-9
682097011	ARK-AP2-EB-03
682097012	ARK-AP2-FD-03
682097013	ARK-AP2-FB-03
1205832284	Method Blank (MB)
1205832285	682059001(NonSDG) Sample Duplicate (DUP)
1205832286	682059001(NonSDG) Matrix Spike (MS)
1205832287	Laboratory Control Sample (LCS)

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

Data Summary:

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

Miscellaneous Information

Additional Comments
The matrix spike, 1205832286 (Non SDG 682059001MS), aliquot was reduced to conserve sample volume.

Certification Statement

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

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **682097**

Report Date: September 19, 2024

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2661778										
QC1205832459 682097001 DUP										
Radium-228	U	1.83	U	0.527	pCi/L	0		N/A	KP1	09/17/2412:52
	Uncert:	+/-1.31		+/-1.23						
	TPU:	+/-1.39		+/-1.24						
QC1205832460 LCS										
Radium-228	70.5			55.7	pCi/L		79	(75%-125%)	KP1	09/17/2412:52
	Uncert:			+/-4.20						
	TPU:			+/-14.9						
QC1205832458 MB										
Radium-228			U	0.570	pCi/L				KP1	09/17/2412:52
	Uncert:			+/-0.923						
	TPU:			+/-0.934						
Rad Ra-226										
Batch 2661719										
QC1205832285 682059001 DUP										
Radium-226		1.86		1.85	pCi/L	.352		(0% - 100%)	MJ2	09/18/2411:18
	Uncert:	+/-0.519		+/-0.524						
	TPU:	+/-0.617		+/-0.623						
QC1205832287 LCS										
Radium-226	27.1			24.1	pCi/L		88.7	(75%-125%)	MJ2	09/18/2411:18
	Uncert:			+/-1.64						
	TPU:			+/-4.66						
QC1205832284 MB										
Radium-226			U	0.274	pCi/L				MJ2	09/18/2411:18
	Uncert:			+/-0.231						
	TPU:			+/-0.236						
QC1205832286 682059001 MS										
Radium-226	128	1.86		121	pCi/L		93	(75%-125%)	MJ2	09/18/2411:18
	Uncert:	+/-0.519		+/-7.58						
	TPU:	+/-0.617		+/-20.9						

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

QC Summary

Workorder: **682097**

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

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
J	See case narrative for an explanation

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

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

Page: 1 of 2
Project # 175569434
GEL Quote #:
COC Number (1): 2 Sample Cooler(s): 5
PO Number: GPC82177-0005

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

GEL Work Order Number: ***GEL Project Manager: Alaina Pinnick***

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

682097

Client Name: Georgia Power Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _2_ Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Zach Levy, John Myer, Dylan Quintal
Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.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 Ag (App. I) (6020B)	NI Metals App. III (B, Cu) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6)
ARK-ARGWA-19	08-20-24	0910	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWA-20	08-20-24	0935	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-21	08-20-24	1515	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-22	08-20-24	1405	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARGWC-23	08-20-24	12:50	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARAMW-1	08-20-24	1315	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARAMW-2	08-20-24	1145	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARAMW-7	08-20-24	1305	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARAMW-8	08-20-24	0935	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	
ARK-ARAMW-9	08-20-24	1150	N	N	WG			8	X	X	X	X	X	X	X	X	X		X	

Comments (task_code: ARK-CCR-ASSMT-2024S2)

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	8/21/24			8/21/24
2						8/21/24 1400
3				3		

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

Fax Results: [ ] Yes [X] No

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

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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.)

Page: 2 of 2
Project # 175569434
GEL Quote #:
COC Number (1): 2 Sample Cooler(s): 5
PO Number: GPC82177-0005

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

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Alaina Pinnick*

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

Client Name: Georgia Power Phone # (937-344-6533)

Project/Site Name: Plant Arkwright Ash Pond _2_ Fax: N/A

Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308

Collected By: Jackson Bankston, Zach Levy, John Myer, Dylan Quintal

Send Results To: jabraham@southernco.com EDD@stantec.com cassidy.sutherland@stantec.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 Ag (App. I) (6020B)	NI Metals App. III (B, Ca) (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI Metals App. IV (6020B) see Additional Remarks	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Metals Al, K, Mg, Na, Fe, Mn (6020B)	NI Fe2+/Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)	<-- Preservative Type (6) Comments (task_code: ARK-CCR-ASSMT-2024S2)
ARK-AP2-EB-03	08-20-24	1440	EB	N	WQ			7		X		X	X	X	X	X			X	
ARK-AP2-FD-03	08-20-24	NA	FD	N	WQ			7		X		X	X	X	X	X			X	
ARK-AP2-FB-03	08-20-24	1200	FB	N	WQ			7		X		X	X	X	X	X			X	

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1	[signature]	Stantec	8/21/24	[signature]		8/21/24
2				[signature]		8/21/24 1400
3						

TAT Requested: **Normal:** X **Rush:** _____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [X] No

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

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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.)

682138 682097 682084
682142 682098 AP
682093 ~~682097~~ WT 8/26/24

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: CLM	Date Received: 8/21/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other cooler 1-0° 3-1° 5-1° 7-0° 9-1° 11-1° 2-0° 4-0° 6-0° 8-1° 10-0°

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) ARL-ARAMW-8 (2 of 3) plastic 1,000 has 8/19/24
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):
10.) wrote on samples, per COC it should be 8/20/24.

PM (or PMA) review: Initials WJ Date 8/26/24 Page 1 of 1

GL-CHL-SR-001 Rev 7

Re: Collection Date - GEL WO: 682097

Will James <Will.James@gel.com>

Tue 8/27/2024 9:40 AM

To:Smith, Edgar <Edgar.SmithII@stantec.com>;Joju Abraham <jabraham@southernco.com>;Sutherland, Cassidy <Cassidy.Sutherland@stantec.com>;Lieu, Carole <Carole.Lieu@stantec.com>;calli.provenza@stantec.com <calli.provenza@stantec.com>;Ross, Katie <katie.ross@stantec.com>;KNJURINK@SOUTHERNCO.COM <KNJURINK@SOUTHERNCO.COM>;Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>;NSMUSKUS@SOUTHERNCO.COM <NSMUSKUS@SOUTHERNCO.COM>;lbmidkif@southernco.com <lbmidkif@southernco.com>
Cc:Team Pinnick <Team.Pinnick@gel.com>;Shoredits, Andreas <Andreas.Shoredits@stantec.com>

Thank you for the confirmation.

Thank you,
Will James
Project Manager Assistant

GEL Laboratories LLC EST. 1981

2040 Savage Road, Charleston, SC 29407 | PO Box 30712, Charleston, SC 29417
Office Direct: 843.769.7371 Ext. 4261 | Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Will.James@gel.com | Website: www.gel.com
Analytical Testing

From: Smith, Edgar <Edgar.SmithII@stantec.com>
Sent: Tuesday, August 27, 2024 9:33 AM
To: Will James <Will.James@gel.com>; Joju Abraham <jabraham@southernco.com>; Sutherland, Cassidy <Cassidy.Sutherland@stantec.com>; Lieu, Carole <Carole.Lieu@stantec.com>; calli.provenza@stantec.com <calli.provenza@stantec.com>; Ross, Katie <katie.ross@stantec.com>; KNJURINK@SOUTHERNCO.COM <KNJURINK@SOUTHERNCO.COM>; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; NSMUSKUS@SOUTHERNCO.COM <NSMUSKUS@SOUTHERNCO.COM>; lbmidkif@southernco.com <lbmidkif@southernco.com>
Cc: Team Pinnick <Team.Pinnick@gel.com>; Shoredits, Andreas <Andreas.Shoredits@stantec.com>
Subject: RE: Collection Date - GEL WO: 682097

Will,
I checked the field documents and the Low-Flow report indicates that the well reached stabilization at 09:29 and was sampled at 09:35 on 8/20/24. Based on all that it looks like the correct date is 8/20/24.
Regards,
Edgar

Edgar L. Smith, II PG
Senior Associate, Geologic Group Leader

Direct: 770 656 2676
Mobile: 770 656 2676

edgar.smithii@stantec.com

Stantec
10745 Westside Way Suite 250
Alpharetta GA 30009-7640

From: Will James <Will.James@gel.com>
Sent: Monday, August 26, 2024 3:52 PM
To: Joju Abraham <jabraham@southernco.com>; Sutherland, Cassidy <Cassidy.Sutherland@stantec.com>; Smith, Edgar <Edgar.SmithII@stantec.com>; Lieu, Carole <Carole.Lieu@stantec.com>; calli.provenza@stantec.com; Ross, Katie <katie.ross@stantec.com>; KNJURINK@SOUTHERNCO.COM; Smilley, Michael Jay <MJSMILLE@SOUTHERNCO.COM>; NSMUSKUS@SOUTHERNCO.COM; lbmidkif@southernco.com
Cc: Team Pinnick <Team.Pinnick@gel.com>
Subject: Collection Date - GEL WO: 682097

Some people who received this message don't often get email from will.james@gel.com. Learn why this is important

Good morning,

The sample containers (2 of 3) for sample ID "ARK0-ARAMW-8" had a collection date of 8/19/24 while the chain of custody documents the collection date as 8/20/24. Please advise. Please see attached for reference.

Thank you,

Will James
Project Manager Assistant

GEL Laboratories LLC EST. 1981

2040 Savage Road, Charleston, SC 29407 | PO Box 30712, Charleston, SC 29417
Office Direct: 843.769.7371 Ext. 4261 | Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Will.James@gel.com | Website: www.gel.com
Analytical Testing

List of current GEL Certifications as of 19 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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

August 20, 2024

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747267

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on August 13, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
770-734-4205
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Jordan Gamble, ARCADIS - Atlanta
Ben Hodges, Southern Company
Priya Jacob, ARCADIS - Atlanta
Jennifer Kolbe, Stantec Consulting
Laura Midkiff, Southern Company
Noelia Muskus Ruiz, Georgia Power
Tina Sullivan, ERM

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747267

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747267

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92747267001	**ARK-BC-0.8a**	Water	08/12/24 11:50	08/13/24 13:25
92747267002	**ARK-BC-0.5.5**	Water	08/12/24 12:11	08/13/24 13:25
92747267003	**ARK-BC-0.5.6**	Water	08/12/24 12:17	08/13/24 13:25
92747267004	**ARK-BC-0.5.7**	Water	08/12/24 11:16	08/13/24 13:25
92747267005	**ARK-BC-BR**	Water	08/12/24 10:43	08/13/24 13:25

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747267

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92747267001	**ARK-BC-0.8a**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92747267002	**ARK-BC-0.5.5**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92747267003	**ARK-BC-0.5.6**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92747267004	**ARK-BC-0.5.7**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92747267005	**ARK-BC-BR**	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	3	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747267

Sample: ARK-BC-0.8a **Lab ID: 92747267001** Collected: 08/12/24 11:50 Received: 08/13/24 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/15/24 16:46	08/19/24 14:42	7440-42-8	
Potassium	**2.4**	mg/L	0.50	1	08/15/24 16:46	08/19/24 14:42	7440-09-7	
Sodium	**8.8**	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:42	7440-23-5	
Calcium	**10.8**	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:42	7440-70-2	
Magnesium	**4.8**	mg/L	0.050	1	08/15/24 16:46	08/19/24 14:42	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:48	7440-48-4	
Lithium	ND	mg/L	0.030	1	08/14/24 09:52	08/14/24 16:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	08/14/24 09:52	08/14/24 16:48	7439-98-7	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**106**	mg/L	25.0	1		08/15/24 10:50		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**55.9**	mg/L	5.0	1		08/14/24 17:49		
Alkalinity, Total as CaCO3	**55.9**	mg/L	5.0	1		08/14/24 17:49		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**7.6**	mg/L	1.0	1		08/14/24 15:31	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/14/24 15:31	16984-48-8	
Sulfate	**3.8**	mg/L	1.0	1		08/14/24 15:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747267

Sample: ARK-BC-0.5.5 **Lab ID: 92747267002** Collected: 08/12/24 12:11 Received: 08/13/24 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/15/24 16:46	08/19/24 14:46	7440-42-8	
Potassium	**2.4**	mg/L	0.50	1	08/15/24 16:46	08/19/24 14:46	7440-09-7	
Sodium	**9.0**	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:46	7440-23-5	
Calcium	**12.2**	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:46	7440-70-2	
Magnesium	**5.2**	mg/L	0.050	1	08/15/24 16:46	08/19/24 14:46	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:53	7440-48-4	
Lithium	ND	mg/L	0.030	1	08/14/24 09:52	08/14/24 16:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	08/14/24 09:52	08/14/24 16:53	7439-98-7	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**113**	mg/L	25.0	1		08/15/24 10:50		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**56.3**	mg/L	5.0	1		08/14/24 17:56		
Alkalinity, Total as CaCO3	**56.3**	mg/L	5.0	1		08/14/24 17:56		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**7.6**	mg/L	1.0	1		08/14/24 15:45	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/14/24 15:45	16984-48-8	
Sulfate	**7.6**	mg/L	1.0	1		08/14/24 15:45	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747267

Sample: ARK-BC-0.5.6 **Lab ID: 92747267003** Collected: 08/12/24 12:17 Received: 08/13/24 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/15/24 16:46	08/19/24 14:49	7440-42-8	
Potassium	**2.5**	mg/L	0.50	1	08/15/24 16:46	08/19/24 14:49	7440-09-7	
Sodium	**8.9**	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:49	7440-23-5	
Calcium	**12.3**	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:49	7440-70-2	
Magnesium	**5.2**	mg/L	0.050	1	08/15/24 16:46	08/19/24 14:49	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:57	7440-48-4	
Lithium	ND	mg/L	0.030	1	08/14/24 09:52	08/14/24 16:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	08/14/24 09:52	08/14/24 16:57	7439-98-7	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**141**	mg/L	25.0	1		08/16/24 14:10		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**57.2**	mg/L	5.0	1		08/14/24 18:02		
Alkalinity, Total as CaCO3	**57.2**	mg/L	5.0	1		08/14/24 18:02		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**7.6**	mg/L	1.0	1		08/14/24 15:59	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/14/24 15:59	16984-48-8	
Sulfate	**7.6**	mg/L	1.0	1		08/14/24 15:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747267

Sample: ARK-BC-0.5.7 **Lab ID: 92747267004** Collected: 08/12/24 11:16 Received: 08/13/24 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/15/24 16:46	08/19/24 14:53	7440-42-8	
Potassium	**2.3**	mg/L	0.50	1	08/15/24 16:46	08/19/24 14:53	7440-09-7	
Sodium	**8.5**	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:53	7440-23-5	
Calcium	**11.7**	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:53	7440-70-2	
Magnesium	**5.0**	mg/L	0.050	1	08/15/24 16:46	08/19/24 14:53	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 17:01	7440-48-4	
Lithium	ND	mg/L	0.030	1	08/14/24 09:52	08/14/24 17:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	08/14/24 09:52	08/14/24 17:01	7439-98-7	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**127**	mg/L	25.0	1		08/16/24 14:11		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**58.1**	mg/L	5.0	1		08/14/24 18:09		
Alkalinity, Total as CaCO3	**58.1**	mg/L	5.0	1		08/14/24 18:09		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**7.5**	mg/L	1.0	1		08/14/24 16:13	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/14/24 16:13	16984-48-8	
Sulfate	**8.7**	mg/L	1.0	1		08/14/24 16:13	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747267

Sample: ARK-BC-BR **Lab ID: 92747267005** Collected: 08/12/24 10:43 Received: 08/13/24 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Boron	ND	mg/L	0.040	1	08/15/24 16:46	08/19/24 14:57	7440-42-8	
Potassium	**2.3**	mg/L	0.50	1	08/15/24 16:46	08/19/24 14:57	7440-09-7	
Sodium	**8.4**	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:57	7440-23-5	
Calcium	**11.4**	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:57	7440-70-2	
Magnesium	**4.9**	mg/L	0.050	1	08/15/24 16:46	08/19/24 14:57	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Cobalt	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 17:05	7440-48-4	
Lithium	ND	mg/L	0.030	1	08/14/24 09:52	08/14/24 17:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	08/14/24 09:52	08/14/24 17:05	7439-98-7	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	**130**	mg/L	25.0	1		08/16/24 14:11		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**56.9**	mg/L	5.0	1		08/14/24 18:16		
Alkalinity, Total as CaCO3	**56.9**	mg/L	5.0	1		08/14/24 18:16		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**7.6**	mg/L	1.0	1		08/14/24 16:27	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/14/24 16:27	16984-48-8	
Sulfate	**7.5**	mg/L	1.0	1		08/14/24 16:27	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747267

QC Batch: 875955
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92747267001, 92747267002, 92747267003, 92747267004, 92747267005

METHOD BLANK: 4512090 Matrix: Water
Associated Lab Samples: 92747267001, 92747267002, 92747267003, 92747267004, 92747267005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	08/19/24 13:54	
Calcium	mg/L	ND	1.0	08/19/24 13:54	
Magnesium	mg/L	ND	0.050	08/19/24 13:54	
Potassium	mg/L	ND	0.50	08/19/24 13:54	
Sodium	mg/L	ND	1.0	08/19/24 13:54	

LABORATORY CONTROL SAMPLE: 4512091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	101	80-120	
Calcium	mg/L	1	1.0	105	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Potassium	mg/L	1	1.1	107	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4512092 4512093

Parameter	Units	92747247001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	ND	1	1	1.1	1.1	105	103	75-125	2	20	
Calcium	mg/L	11.5	1	1	13.1	13.1	155	159	75-125	0	20	M1
Magnesium	mg/L	4.9	1	1	6.1	6.2	118	126	75-125	1	20	M1
Potassium	mg/L	2.3	1	1	3.5	3.5	113	112	75-125	0	20	
Sodium	mg/L	8.5	1	1	9.7	9.8	126	134	75-125	1	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747267

QC Batch: 875521
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92747267001, 92747267002, 92747267003, 92747267004, 92747267005

METHOD BLANK: 4509771 Matrix: Water
Associated Lab Samples: 92747267001, 92747267002, 92747267003, 92747267004, 92747267005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cobalt	mg/L	ND	0.0050	08/14/24 15:37	
Lithium	mg/L	ND	0.030	08/14/24 15:37	
Molybdenum	mg/L	ND	0.010	08/14/24 15:37	

LABORATORY CONTROL SAMPLE: 4509772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cobalt	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	108	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4509773 4509774

Parameter	Units	92746959001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	mg/L	ND	0.1	0.1	0.10	0.097	102	97	75-125	4	20	
Lithium	mg/L	ND	0.1	0.1	0.11	0.11	108	106	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	103	105	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747267

QC Batch: 875851
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92747267001, 92747267002

METHOD BLANK: 4511546 Matrix: Water
Associated Lab Samples: 92747267001, 92747267002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	08/15/24 10:43	

LABORATORY CONTROL SAMPLE: 4511547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	80-120	

SAMPLE DUPLICATE: 4511548

Parameter	Units	92747047013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	250	250	0	10	

SAMPLE DUPLICATE: 4511549

Parameter	Units	92746783020 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	162	154	5	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747267

QC Batch: 876190
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92747267003, 92747267004, 92747267005

METHOD BLANK: 4513596 Matrix: Water
Associated Lab Samples: 92747267003, 92747267004, 92747267005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	08/16/24 14:10	

LABORATORY CONTROL SAMPLE: 4513597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	415	104	80-120	

SAMPLE DUPLICATE: 4513598

Parameter	Units	92747267003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	141	141	0	10	

SAMPLE DUPLICATE: 4513599

Parameter	Units	92747305002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	93.0	87.0	7	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747267

QC Batch: 875570
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92747267001, 92747267002, 92747267003, 92747267004, 92747267005

METHOD BLANK: 4509947 Matrix: Water
Associated Lab Samples: 92747267001, 92747267002, 92747267003, 92747267004, 92747267005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	08/14/24 16:17	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	08/14/24 16:17	

LABORATORY CONTROL SAMPLE: 4509948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.4	105	80-120	

LABORATORY CONTROL SAMPLE: 4509949

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	53.6	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4509950 4509951

Parameter	Units	92747247001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	55.7	50	50	106	107	101	103	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4509952 4509953

Parameter	Units	92747247002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	59.3	50	50	108	110	98	101	80-120	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747267

QC Batch: 875472
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92747267001, 92747267002, 92747267003, 92747267004, 92747267005

METHOD BLANK: 4509648 Matrix: Water
Associated Lab Samples: 92747267001, 92747267002, 92747267003, 92747267004, 92747267005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	08/14/24 12:44	
Fluoride	mg/L	ND	0.10	08/14/24 12:44	
Sulfate	mg/L	ND	1.0	08/14/24 12:44	

LABORATORY CONTROL SAMPLE: 4509649

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	51.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4509650 4509651

Parameter	Units	92747247001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.5	50	50	58.2	59.1	101	103	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	101	103	90-110	2	10	
Sulfate	mg/L	7.6	50	50	58.6	59.6	102	104	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4509652 4509653

Parameter	Units	92747267005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.6	50	50	58.0	58.6	101	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	101	102	90-110	1	10	
Sulfate	mg/L	7.5	50	50	58.4	58.9	102	103	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747267

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747267

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92747267001	**ARK-BC-0.8a**	EPA 3010A	875955	EPA 6010D	876037
92747267002	**ARK-BC-0.5.5**	EPA 3010A	875955	EPA 6010D	876037
92747267003	**ARK-BC-0.5.6**	EPA 3010A	875955	EPA 6010D	876037
92747267004	**ARK-BC-0.5.7**	EPA 3010A	875955	EPA 6010D	876037
92747267005	**ARK-BC-BR**	EPA 3010A	875955	EPA 6010D	876037
92747267001	**ARK-BC-0.8a**	EPA 3005A	875521	EPA 6020B	875636
92747267002	**ARK-BC-0.5.5**	EPA 3005A	875521	EPA 6020B	875636
92747267003	**ARK-BC-0.5.6**	EPA 3005A	875521	EPA 6020B	875636
92747267004	**ARK-BC-0.5.7**	EPA 3005A	875521	EPA 6020B	875636
92747267005	**ARK-BC-BR**	EPA 3005A	875521	EPA 6020B	875636
92747267001	**ARK-BC-0.8a**	SM 2540C-2015	875851		
92747267002	**ARK-BC-0.5.5**	SM 2540C-2015	875851		
92747267003	**ARK-BC-0.5.6**	SM 2540C-2015	876190		
92747267004	**ARK-BC-0.5.7**	SM 2540C-2015	876190		
92747267005	**ARK-BC-BR**	SM 2540C-2015	876190		
92747267001	**ARK-BC-0.8a**	SM 2320B-2011	875570		
92747267002	**ARK-BC-0.5.5**	SM 2320B-2011	875570		
92747267003	**ARK-BC-0.5.6**	SM 2320B-2011	875570		
92747267004	**ARK-BC-0.5.7**	SM 2320B-2011	875570		
92747267005	**ARK-BC-BR**	SM 2320B-2011	875570		
92747267001	**ARK-BC-0.8a**	EPA 9056A	875472		
92747267002	**ARK-BC-0.5.5**	EPA 9056A	875472		
92747267003	**ARK-BC-0.5.6**	EPA 9056A	875472		
92747267004	**ARK-BC-0.5.7**	EPA 9056A	875472		
92747267005	**ARK-BC-BR**	EPA 9056A	875472		

Pace® Location Requested (City/State):
Pace Analytical Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 92747267

92747267

Company Name:	ARCADIS - Atlanta	Contact/Report To:	Kelley Sharpe
Street Address:	2839 Paces Ferry Rd, Atlanta, GA 30339	Phone #:	(770)547-2978
		E-Mail:	kelley.sharpe@arcadis.com
		Cc E-Mail:	Arcadis-Atl + GA Power Distribution List
Customer Project #:			
Project Name:	Plant Arkwright-CCR Ash Pond	Invoice To:	Accounts Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):	Plant Arkwright SWS	Purchase Order # (if applicable):	GPC82474-0003
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested: 5 Day TAT

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App. IV Metals - Co, Li, Mo only	App. III Metals - B, Ca	Metals - K, Mg, Na	Alkalinity (Total/BiCarb)	Cl, F, SO4	TDS	Sample Comment
ARK-BC-0.8a	WS	G	8/12/24	1150			3			X	X	X	X	X	X	
ARK-BC-0.5.5	WS	G	8/12/24	1211			3			X	X	X	X	X	X	
ARK-BC-0.5.6	WS	G	8/12/24	1217			3			X	X	X	X	X	X	
ARK-BC-0.5.7	WS	G	8/12/24	1116			3			X	X	X	X	X	X	
ARK-BC-BR	WS	G	8/12/24	1043			3			X	X	X	X	X	X	

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Maiya Parks

AcctNum / Client ID:

Table #:

Profile / Template: 15836

Prelog / Bottle Ord. ID: EZ 3144736

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
ARK-CSURF-ASSMT-2024S2

Collected By:
(Printed Name) Grant G

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Arcadis	8/13/24 1325		8/13/24 1325	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Arcadis - Atlanta

Project #:

WO#: 92747267

PM: MP Due Date: 08/20/24

CLIENT: GA-ArcadAtl

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 8/13/24 ow

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 270

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.4 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 5.4

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	4. 5 DAY TAT
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WS				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO#: 92747267

PM: MP Due Date: 08/20/24

CLIENT: GA-ArcadAtl

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client ARCADIS - Atlanta Profile/EZ (Circle one) 3144736 Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1			2				1																							
2			2				1																							
3			2				1																							
4			2				1																							
5			2				1																							
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

GEL Laboratories LLC
a member of The GEL Group INC

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

December 30, 2024

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Arkwright CCR Groundwater Compliance Plant Arkwright Ash Pond 2
Work Order: 700475

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on December 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. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
700475001	ARK-ARAMW-10	Ground Water	12/12/24 13:10	12/13/24 09:20
700475002	ARK-ARAMW-10	Ground Water	12/12/24 13:10	12/13/24 09:20
700475003	ARK-ARAMW-11	Ground Water	12/12/24 15:15	12/13/24 09:20
700475004	ARK-ARAMW-11	Ground Water	12/12/24 15:15	12/13/24 09:20

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	17-DEC-2024
SW846 7470A Prep	16-DEC-2024

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	23-DEC-2024
EPA 300.0	25-DEC-2024
EPA 300.0	26-DEC-2024
EPA 353.2 Low Level	16-DEC-2024

SM 2320B	13-DEC-2024
SM 2540C	19-DEC-2024
SW846 3005A/6020B	28-DEC-2024
SW846 3005A/6020B	30-DEC-2024
SW846 7470A	17-DEC-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

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0005
Enclosures

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

Certificate of Analysis Report
for

GPCC003 Georgia Power Company

Client SDG: 700475 GEL Work Order: 700475

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: December 30, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2

Client Sample ID:	ARK-ARAMW-10	Project:	GPCC01924
Sample ID:	700475001	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	12-DEC-24 13:10		
Receive Date:	13-DEC-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.02	0.0670	0.200	mg/L		1	RXB5	12/26/24	1351	2726006	1
Fluoride		0.114	0.0330	0.100	mg/L		1					
Sulfate		1080	13.3	40.0	mg/L		100	RXB5	12/26/24	1727	2726006	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	12/17/24	1432	2721813	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Calcium		363	3.20	8.00	mg/L	1.00	40	RM4	12/30/24	1014	2721530	4
Magnesium		80.5	0.400	1.20	mg/L	1.00	40					
Aluminum	J	0.0460	0.0193	0.0500	mg/L	1.00	1	RM4	12/30/24	1038	2721530	5
Iron		0.966	0.0330	0.100	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	RM4	12/28/24	0421	2721530	6
Arsenic	J	0.00360	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0550	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000204	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000327	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0186	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0631	0.00300	0.0100	mg/L	1.00	1					
Potassium		8.49	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		39.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		2.84	0.208	0.600	mg/L	1.00	40	RM4	12/30/24	1223	2721530	7
Manganese		22.0	0.0400	0.200	mg/L	1.00	40					
Molybdenum		0.00148	0.000200	0.00100	mg/L	1.00	1	RM4	12/30/24	1246	2721530	8
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	AXH3	12/16/24	0738	2721689	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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

Certificate of Analysis

Report Date: December 30, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2

Client Sample ID:	ARK-ARAMW-10	Project:	GPCC01924
Sample ID:	700475001	Client ID:	GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1790	2.38	10.0	mg/L			KLP1	12/19/24	1330	2723806	10
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		113	0.725	2.00	mg/L			JW2	12/13/24	1233	2721233	11
Bicarbonate alkalinity (CaCO3)		113	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 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	12/16/24	1130	2721811
SW846 3005A	ICP-MS 3005A PREP	BB2	12/17/24	0815	2721529

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	EPA 353.2 Low Level	
10	SM 2540C	
11	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: December 30, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2

Client Sample ID:	ARK-ARAMW-10	Project:	GPCC01924
Sample ID:	700475002	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	12-DEC-24 13:10		
Receive Date:	13-DEC-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Manganese		22.6	0.0400	0.200	mg/L	1.00	40	RM4	12/30/24	1235	2721530	1
Iron		0.973	0.0330	0.100	mg/L	1.00	1	RM4	12/30/24	1050	2721530	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	12/17/24	0815	2721529

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: December 30, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2

Client Sample ID:	ARK-ARAMW-11	Project:	GPCC01924
Sample ID:	700475003	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	12-DEC-24 15:15		
Receive Date:	13-DEC-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		960	13.3	40.0	mg/L		100	RXB5	12/26/24	1757	2726006	1
Chloride		5.22	0.0670	0.200	mg/L		1	RXB5	12/26/24	1453	2726006	2
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	12/17/24	1437	2721813	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	12/28/24	0451	2721530	4
Arsenic	J	0.00314	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0252	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		0.0394	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0471	0.00300	0.0100	mg/L	1.00	1					
Potassium		7.21	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		29.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Molybdenum	J	0.000630	0.000200	0.00100	mg/L	1.00	1	RM4	12/30/24	1259	2721530	5
Boron		2.30	0.208	0.600	mg/L	1.00	40	RM4	12/30/24	1237	2721530	6
Manganese		16.2	0.0400	0.200	mg/L	1.00	40					
Aluminum		0.0857	0.0193	0.0500	mg/L	1.00	1	RM4	12/30/24	1053	2721530	7
Iron		0.285	0.0330	0.100	mg/L	1.00	1					
Calcium		296	3.20	8.00	mg/L	1.00	40	RM4	12/30/24	1028	2721530	8
Magnesium		86.9	0.400	1.20	mg/L	1.00	40					
Nutrient Analysis												
EPA 353.2 Nitrogen, Nitrate/Nitrite "As Received"												
Nitrogen, Nitrate/Nitrite	U	ND	0.00700	0.0200	mg/L		1	AXH3	12/16/24	0742	2721689	9
Solids Analysis												
SM2540C Dissolved Solids "As Received"												

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

Certificate of Analysis

Report Date: December 30, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2

Client Sample ID:	ARK-ARAMW-11	Project:	GPCC01924
Sample ID:	700475003	Client ID:	GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1540	2.38	10.0	mg/L			KLP1	12/19/24	1330	2723806	10
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		48.4	0.725	2.00	mg/L			JW2	12/13/24	1235	2721233	11
Bicarbonate alkalinity (CaCO3)		48.4	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 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	12/16/24	1130	2721811
SW846 3005A	ICP-MS 3005A PREP	BB2	12/17/24	0815	2721529

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	EPA 353.2 Low Level	
10	SM 2540C	
11	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: December 30, 2024

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2

Client Sample ID:	ARK-ARAMW-11	Project:	GPCC01924
Sample ID:	700475004	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	12-DEC-24 15:15		
Receive Date:	13-DEC-24		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Manganese		15.6	0.0400	0.200	mg/L	1.00	40	RM4	12/30/24	1239	2721530	1
Iron		0.191	0.0330	0.100	mg/L	1.00	1	RM4	12/30/24	1055	2721530	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	12/17/24	0815	2721529

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: December 30, 2024

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

Contact: **Joju Abraham**

Workorder: **700475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2726006											
QC1205960542 700495002 DUP											
Chloride		3.36		3.39	mg/L	0.795			(0%-20%)	RXB5	12/24/24 00:12
Fluoride		0.278		0.255	mg/L	8.33	^		(+/-0.100)		
Sulfate		6.12		6.09	mg/L	0.474			(0%-20%)		
QC1205960539 LCS											
Chloride	5.00			4.57	mg/L			91.4	(90%-110%)		12/23/24 15:59
Fluoride	2.50			2.31	mg/L			92.2	(90%-110%)		
Sulfate	10.0			9.45	mg/L			94.5	(90%-110%)		
QC1205960538 MB											
Chloride			U	ND	mg/L						12/23/24 15:28
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205960543 700495002 PS											
Chloride	5.00	3.36		8.22	mg/L			97.2	(90%-110%)		12/24/24 00:43
Fluoride	2.50	0.278		2.60	mg/L			92.9	(90%-110%)		
Sulfate	10.0	6.12		15.8	mg/L			97.3	(90%-110%)		

QC Summary

Workorder: **700475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2721530										
QC1205951102 LCS										
Aluminum	2.00			2.08	mg/L		104	(80%-120%)	RM4	12/30/24 10:11
Antimony	0.0500			0.0483	mg/L		96.6	(80%-120%)		12/28/24 04:17
Arsenic	0.0500			0.0500	mg/L		99.9	(80%-120%)		
Barium	0.0500			0.0501	mg/L		100	(80%-120%)		
Beryllium	0.0500			0.0583	mg/L		117	(80%-120%)		
Boron	0.100			0.109	mg/L		109	(80%-120%)		12/30/24 12:21
Cadmium	0.0500			0.0507	mg/L		101	(80%-120%)		12/28/24 04:17
Calcium	2.00			2.22	mg/L		111	(80%-120%)		12/30/24 10:11
Chromium	0.0500			0.0495	mg/L		99.1	(80%-120%)		12/28/24 04:17
Cobalt	0.0500			0.0490	mg/L		98.1	(80%-120%)		
Iron	2.00			2.05	mg/L		102	(80%-120%)		12/30/24 10:11
Lead	0.0500			0.0514	mg/L		103	(80%-120%)		12/28/24 04:17
Lithium	0.0500			0.0530	mg/L		106	(80%-120%)		
Magnesium	2.00			2.22	mg/L		111	(80%-120%)		12/30/24 10:11

QC Summary

Workorder: **700475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2721530										
Manganese	0.0500			0.0517	mg/L		103	(80%-120%)	RM4	12/30/24 12:21
Molybdenum	0.0500			0.0533	mg/L		107	(80%-120%)		
Potassium	2.00			2.01	mg/L		100	(80%-120%)		12/28/24 04:17
Selenium	0.0500			0.0499	mg/L		99.7	(80%-120%)		
Silver	0.0500			0.0528	mg/L		106	(80%-120%)		
Sodium	2.00			2.16	mg/L		108	(80%-120%)		
Thallium	0.0500			0.0495	mg/L		98.9	(80%-120%)		
QC1205951101 MB										
Aluminum			U	ND	mg/L					12/30/24 10:09
Antimony			U	ND	mg/L					12/28/24 04:13
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					12/30/24 12:19
Cadmium			U	ND	mg/L					12/28/24 04:13

QC Summary

Workorder: **700475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2721530										
Calcium			U	ND	mg/L				RM4	12/30/24 10:09
Chromium			U	ND	mg/L					12/28/24 04:13
Cobalt			U	ND	mg/L					
Iron			U	ND	mg/L					12/30/24 10:09
Lead			U	ND	mg/L					12/28/24 04:13
Lithium			U	ND	mg/L					
Magnesium			U	ND	mg/L					12/30/24 10:09
Manganese			U	ND	mg/L					12/30/24 12:19
Molybdenum			U	ND	mg/L					
Potassium			U	ND	mg/L					12/28/24 04:13
Selenium			U	ND	mg/L					
Silver			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					

QC Summary

Workorder: **700475**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2721530											
QC1205951103 700475001 MS											
Aluminum	2.00	J	0.0460		1.98	mg/L		96.9	(75%-125%)	RM4	12/30/24 10:41
Antimony	0.0500	U	ND		0.0468	mg/L		93.5	(75%-125%)		12/28/24 04:24
Arsenic	0.0500	J	0.00360		0.0536	mg/L		100	(75%-125%)		
Barium	0.0500		0.0550		0.0995	mg/L		88.9	(75%-125%)		
Beryllium	0.0500	J	0.000204		0.0527	mg/L		105	(75%-125%)		
Boron	0.100		2.84		2.79	mg/L		N/A	(75%-125%)		12/30/24 12:26
Cadmium	0.0500	J	0.000327		0.0451	mg/L		89.5	(75%-125%)		12/28/24 04:24
Calcium	2.00		363		366	mg/L		N/A	(75%-125%)		12/30/24 10:16
Chromium	0.0500	U	ND		0.0463	mg/L		91.8	(75%-125%)		12/28/24 04:24
Cobalt	0.0500		0.0186		0.0615	mg/L		85.7	(75%-125%)		
Iron	2.00		0.966		2.80	mg/L		91.8	(75%-125%)		12/30/24 10:41
Lead	0.0500	U	ND		0.0439	mg/L		87.7	(75%-125%)		12/28/24 04:24
Lithium	0.0500		0.0631		0.113	mg/L		100	(75%-125%)		
Magnesium	2.00		80.5		78.3	mg/L		N/A	(75%-125%)		12/30/24 10:16

QC Summary

Workorder: **700475**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2721530											
Manganese	0.0500		22.0		22.2	mg/L		N/A	(75%-125%)	RM4	12/30/24 12:26
Molybdenum	0.0500		0.00148		0.0578	mg/L		113	(75%-125%)		12/30/24 12:48
Potassium	2.00		8.49		10.3	mg/L		N/A	(75%-125%)		12/28/24 04:24
Selenium	0.0500	U	ND		0.0532	mg/L		105	(75%-125%)		
Silver	0.0500	U	ND		0.0435	mg/L		86.9	(75%-125%)		
Sodium	2.00		39.0		39.8	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0435	mg/L		87	(75%-125%)		
QC1205951104 700475001 MSD											
Aluminum	2.00	J	0.0460		2.01	mg/L	1.13	98	(0%-20%)		12/30/24 10:43
Antimony	0.0500	U	ND		0.0458	mg/L	2.2	91.4	(0%-20%)		12/28/24 04:28
Arsenic	0.0500	J	0.00360		0.0556	mg/L	3.74	104	(0%-20%)		
Barium	0.0500		0.0550		0.0997	mg/L	0.218	89.4	(0%-20%)		
Beryllium	0.0500	J	0.000204		0.0543	mg/L	2.99	108	(0%-20%)		
Boron	0.100		2.84		2.82	mg/L	0.902	N/A	(0%-20%)		12/30/24 12:28
Cadmium	0.0500	J	0.000327		0.0461	mg/L	2.26	91.6	(0%-20%)		12/28/24 04:28

QC Summary

Workorder: **700475**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2721530											
Calcium	2.00		363		363	mg/L	0.668	N/A	(0%-20%)	RM4	12/30/24 10:19
Chromium	0.0500	U	ND		0.0468	mg/L	1.06	92.7	(0%-20%)		12/28/24 04:28
Cobalt	0.0500		0.0186		0.0640	mg/L	4.07	90.8	(0%-20%)		
Iron	2.00		0.966		2.81	mg/L	0.162	92	(0%-20%)		12/30/24 10:43
Lead	0.0500	U	ND		0.0452	mg/L	2.85	90.2	(0%-20%)		12/28/24 04:28
Lithium	0.0500		0.0631		0.114	mg/L	0.645	102	(0%-20%)		
Magnesium	2.00		80.5		78.4	mg/L	0.0412	N/A	(0%-20%)		12/30/24 10:19
Manganese	0.0500		22.0		21.7	mg/L	2.34	N/A	(0%-20%)		12/30/24 12:28
Molybdenum	0.0500		0.00148		0.0574	mg/L	0.717	112	(0%-20%)		12/30/24 12:50
Potassium	2.00		8.49		10.2	mg/L	0.926	N/A	(0%-20%)		12/28/24 04:28
Selenium	0.0500	U	ND		0.0551	mg/L	3.39	108	(0%-20%)		
Silver	0.0500	U	ND		0.0445	mg/L	2.43	89.1	(0%-20%)		
Sodium	2.00		39.0		39.8	mg/L	0.0103	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0447	mg/L	2.8	89.4	(0%-20%)		

QC Summary

Workorder: **700475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2721530										
QC1205951105 700475001 SDILT										
Aluminum	J	46.0	U	ND	ug/L	N/A		(0%-20%)	RM4	12/30/24 10:48
Antimony	U	ND	U	ND	ug/L	N/A		(0%-20%)		12/28/24 04:36
Arsenic	J	3.60	U	ND	ug/L	N/A		(0%-20%)		
Barium		55.0		11.1	ug/L	.929		(0%-20%)		
Beryllium	J	0.204	U	ND	ug/L	N/A		(0%-20%)		
Boron		70.9		15.8	ug/L	11.4		(0%-20%)		12/30/24 12:32
Cadmium	J	0.327	U	ND	ug/L	N/A		(0%-20%)		12/28/24 04:36
Calcium		9080		1740	ug/L	4.01		(0%-20%)		12/30/24 10:24
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		12/28/24 04:36
Cobalt		18.6		3.96	ug/L	6.21		(0%-20%)		
Iron		966		205	ug/L	6.23		(0%-20%)		12/30/24 10:48
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		12/28/24 04:36
Lithium		63.1		12.5	ug/L	1.16		(0%-20%)		
Magnesium		2010		380	ug/L	5.49		(0%-20%)		12/30/24 10:24

QC Summary

Workorder: **700475**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2721530										
Manganese		550		111	ug/L	.794		(0%-20%)	RM4	12/30/24 12:32
Molybdenum		1.48	J	0.295	ug/L	.472		(0%-20%)		12/30/24 12:55
Potassium		8490		1700	ug/L	.08		(0%-20%)		12/28/24 04:36
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Silver	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		39000		7450	ug/L	4.38		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2721813										
QC1205951827 700240001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	12/17/24 14:22
QC1205951826 LCS										
Mercury 0.00200				0.00198	mg/L		99.2	(80%-120%)		12/17/24 13:52
QC1205951825 MB										
Mercury			U	ND	mg/L					12/17/24 13:50
QC1205951828 700240001 MS										
Mercury 0.00200	U	ND		0.00195	mg/L		97.3	(75%-125%)		12/17/24 14:23
QC1205951829 700240001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		12/17/24 14:25

QC Summary

Workorder: **700475**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Nutrient Analysis											
Batch 2721689											
QC1205951547 700475001 DUP											
Nitrogen, Nitrate/Nitrite		U	ND	U	ND	mg/L	N/A			AXH3	12/16/24 07:40
QC1205951546 LCS											
Nitrogen, Nitrate/Nitrite	1.00				1.00	mg/L		100	(90%-110%)		12/16/24 07:37
QC1205951545 MB											
Nitrogen, Nitrate/Nitrite				J	0.00883	mg/L					12/16/24 07:36
QC1205951548 700475001 PS											
Nitrogen, Nitrate/Nitrite	1.00	U	ND		0.982	mg/L		98	(90%-110%)		12/16/24 07:41
Solids Analysis											
Batch 2723806											
QC1205956007 700539001 DUP											
Total Dissolved Solids			438		430	mg/L	1.84		(0%-5%)	KLP1	12/19/24 13:30
QC1205956005 LCS											
Total Dissolved Solids	300				290	mg/L		96.7	(95%-105%)		12/19/24 13:30
QC1205956004 MB											
Total Dissolved Solids				U	ND	mg/L					12/19/24 13:30
Titration and Ion Analysis											
Batch 2721233											
QC1205950586 LCS											
Alkalinity, Total as CaCO3	50.0				53.5	mg/L		107	(90%-110%)	JW2	12/13/24 12:28
QC1205950588 LCSD											
Alkalinity, Total as CaCO3	50.0				53.4	mg/L	0.187	107	(0%-20%)		12/13/24 12:29

Notes:

The Qualifiers in this report are defined as follows:

QC Summary

Workorder: **700475**

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

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.

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: 2721530

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2721529

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

GEL Sample ID#	Client Sample Identification
700475001	ARK-ARAMW-10
700475002	ARK-ARAMW-10
700475003	ARK-ARAMW-11
700475004	ARK-ARAMW-11
1205951101	Method Blank (MB)**ICP-MS**
1205951102	Laboratory Control Sample (LCS)
1205951105	700475001(ARK-ARAMW-10L) Serial Dilution (SD)
1205951103	700475001(ARK-ARAMW-10S) Matrix Spike (MS)
1205951104	700475001(ARK-ARAMW-10SD) 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 700475001 (ARK-ARAMW-10), 700475002 (ARK-ARAMW-10), 700475003 (ARK-ARAMW-11) and 700475004 (ARK-ARAMW-11) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	700475			
	001	**002**	**003**	**004**
Boron	40X		40X	

Calcium	40X		40X	
Magnesium	40X		40X	
Manganese	40X	40X	40X	40X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2721813

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2721811

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

GEL Sample ID#	Client Sample Identification
700475001	ARK-ARAMW-10
700475003	ARK-ARAMW-11
1205951825	Method Blank (MB)**CVAA**
1205951826	Laboratory Control Sample (LCS)
1205951829	700240001(NonSDGL) Serial Dilution (SD)
1205951827	700240001(NonSDGD) Sample Duplicate (DUP)
1205951828	700240001(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# 36
Analytical Batch: 2726006

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

GEL Sample ID#	Client Sample Identification
700475001	ARK-ARAMW-10
700475003	ARK-ARAMW-11
1205960538	Method Blank (MB)
1205960539	Laboratory Control Sample (LCS)
1205960542	700495002(NonSDG) Sample Duplicate (DUP)
1205960543	700495002(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 700475001 (ARK-ARAMW-10) and 700475003 (ARK-ARAMW-11) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	700475	
	001	003
Sulfate	100X	100X

Sample Re-analysis
Samples 700475001 (ARK-ARAMW-10) and 700475003 (ARK-ARAMW-11) were re-analyzed to verify the results.

Miscellaneous Information

Manual Integrations
Sample 700475001 (ARK-ARAMW-10) was manually integrated to correctly position the baseline as set in the calibration standards.

Product: **Nitrate/Nitrite Cad Redux Low Level**
Analytical Method: EPA 353.2 Low Level
Analytical Procedure: GL-GC-E-128 REV# 16
Analytical Batch: 2721689

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

GEL Sample ID#	Client Sample Identification
700475001	ARK-ARAMW-10
700475003	ARK-ARAMW-11
1205951545	Method Blank (MB)
1205951546	Laboratory Control Sample (LCS)
1205951547	700475001(ARK-ARAMW-10) Sample Duplicate (DUP)
1205951548	700475001(ARK-ARAMW-10) Post Spike (PS)

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: 2723806

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

GEL Sample ID#	Client Sample Identification
700475001	ARK-ARAMW-10
700475003	ARK-ARAMW-11
1205956004	Method Blank (MB)
1205956005	Laboratory Control Sample (LCS)
1205956007	700539001(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: 2721233

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

GEL Sample ID#	Client Sample Identification
700475001	ARK-ARAMW-10
700475003	ARK-ARAMW-11
1205950586	Laboratory Control Sample (LCS)
1205950588	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.

Project # 175569434
Client Quote #:
COC Number [1]: 2 Sample Cooler(s) 1
PO Number: GPC82177-0005

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Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Alaina Pinnick**

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

Client Name: Georgia Power Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _2_ Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Andreas Shoredits, Bryan Pennell, Jaiden Stidston
Send Results To: jabraham@southernco.com EDD@stantec.com jennifer.kolbe@stantec.com

Page 26 of 28 SDG 700475

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 (6020B)	NI **Metals (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	SA Nitrate/ Nitrite (EPA Method 353.2)			<-- Preservative Type (6)
ARK-ARAMW-10	12-12-24	1310	N	N	WG				X	X	X	X	X	X	X		X			
ARK-ARAMW-10	12-12-24	1310	N	Y	WG											X				
ARK-ARAMW-11	12-12-24	1515	N	N	WG				X	X	X	X	X	X	X		X			
ARK-ARAMW-11	12-12-24	1515	N	Y	WG											X				

Comments (task_code: ARK-CCR-ASSMT-2024S2)

*Metals: Ag, B, Ca, Al, K, Mg, Na, Fe, Mn, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl

**Metals: Ag, B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		ANDREAS SHOREDITS Stantec	12/12/24			12/13/24 920
2						
3						

TAT Requested: **Normal:** X **Rush:** _____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [X] No

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

Additional Remarks: Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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.)

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GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	**SDG/AR/COC/Work Order:**
Received By: QG	**Date Received:** 12/13/24
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 2831 9572 2650

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): 0 (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: 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?	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 NJ Date 12/16/24 Page 1 of 1

List of current GEL Certifications as of 30 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	SC000122024-45
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

January 08, 2025

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Arkwright CCR Groundwater Compliance Relog:
Work Order: 700476

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on December 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. There are no additional comments concerning sample receipt. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
700476001	ARK-ARAMW-10	Ground Water	12/12/24 13:10	12/13/24 09:20
700476002	ARK-ARAMW-11	Ground Water	12/12/24 15:15	12/13/24 09:20

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

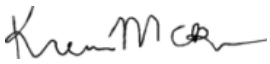
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	08-JAN-2025
EPA 903.1 Modified	03-JAN-2025
EPA 904.0/SW846 9320 Modified	02-JAN-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: GPC82177-0005
Enclosures

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

Certificate of Analysis Report
for

GPCC003 Georgia Power Company

Client SDG: 700476 GEL Work Order: 700476

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

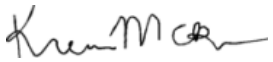
** Analyte is a surrogate compound

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, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: January 8, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog:

Client Sample ID: ARK-ARAMW-10
Sample ID: 700476001
Matrix: WG
Collect Date: 12-DEC-24
Receive Date: 13-DEC-24
Collector: Client

Project: GPCC01924
Client ID: GPCC003

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		4.45	+/-1.38	1.62	+/-1.79	3.00	pCi/L			ST2	01/02/25	1314	2721613	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		8.18	+/-1.58	1.62	+/-2.04		pCi/L			NXL1	01/08/25	1045	2721917	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		3.73	+/-0.766	0.307	+/-0.981	1.00	pCi/L			MJ2	01/03/25	1108	2723181	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"	2721613	84.4	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: January 8, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog:

Client Sample ID: ARK-ARAMW-11 Project: GPCC01924
Sample ID: 700476002 Client ID: GPCC003
Matrix: WG
Collect Date: 12-DEC-24
Receive Date: 13-DEC-24
Collector: Client

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	1.17	+/-0.887	1.37	+/-0.937	3.00	pCi/L			ST2	01/02/25	1314	2721613	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.91	+/-1.00	1.37	+/-1.12		pCi/L			NXL1	01/08/25	1045	2721917	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.74	+/-0.470	0.331	+/-0.611	1.00	pCi/L			MJ2	01/03/25	1108	2723181	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"	2721613	91.4	(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

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2721917

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

GEL Sample ID#	Client Sample Identification
700476001	ARK-ARAMW-10
700476002	ARK-ARAMW-11

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: 2721613

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

GEL Sample ID#	Client Sample Identification
700476001	ARK-ARAMW-10
700476002	ARK-ARAMW-11
1205951331	Method Blank (MB)
1205951332	700476001(ARK-ARAMW-10) Sample Duplicate (DUP)
1205951333	Laboratory Control Sample (LCS)

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

Data Summary:

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

Quality Control (QC) Information

RDL Met
The following RDL was met with rounding.

Sample	Analyte	Value
1205951332 (ARK-ARAMW-10DUP)	Radium-228	Result 2.79 < MDA 3.06 > RDL 3 pCi/L

Technical Information

Recounts
Sample 1205951332 (ARK-ARAMW-10DUP) was recounted to verify sample results. Recount is reported.

Product: **Lucas Cell, Ra226, Liquid**
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2723181

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

GEL Sample ID#	Client Sample Identification
700476001	ARK-ARAMW-10
700476002	ARK-ARAMW-11
1205954780	Method Blank (MB)
1205954781	700252001(NonSDG) Sample Duplicate (DUP)
1205954782	700252001(NonSDG) Matrix Spike (MS)
1205954783	Laboratory Control Sample (LCS)

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

Data Summary:

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

Quality Control (QC) Information

Duplication Criteria between QC Sample and Duplicate Sample
The Sample and the Duplicate, (See Below), did not meet the relative percent difference requirement; however, they do meet the relative error ratio requirement with the value listed below.

Sample	Analyte	Value
1205954781 (Non SDG 700252001DUP)	Radium-226	RPD 52.4* (0.00%-20.00%) RER 1.84 (0-3)

Technical Information

Recounts
Sample 1205954783 (LCS) was recounted due to low recovery. The recount is reported.

Miscellaneous Information

Additional Comments
The matrix spike, 1205954782 (Non SDG 700252001MS), aliquot was reduced to conserve sample volume.

Certification Statement

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

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **700476**

Report Date: January 8, 2025

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2721613										
QC1205951332 700476001 DUP										
Radium-228		4.45	U	2.79	pCi/L	45.9		(0% - 100%)	ST2	01/02/2515:32
Uncert:		+/-1.38		+/-1.94						
TPU:		+/-1.79		+/-2.06						
QC1205951333 LCS										
Radium-228	80.1			78.8	pCi/L		98.4	(75%-125%)	ST2	01/02/2513:14
Uncert:				+/-4.58						
TPU:				+/-20.6						
QC1205951331 MB										
Radium-228			U	1.10	pCi/L				ST2	01/02/2513:13
Uncert:				+/-1.19						
TPU:				+/-1.22						
Rad Ra-226										
Batch 2723181										
QC1205954781 700252001 DUP										
Radium-226		1.62		0.945	pCi/L	52.4*		(0%-20%)	MJ2	01/03/2512:00
Uncert:		+/-0.465		+/-0.375						
TPU:		+/-0.572		+/-0.430						
QC1205954783 LCS										
Radium-226	27.2			21.3	pCi/L		78.2	(75%-125%)	MJ2	01/03/2516:35
Uncert:				+/-1.59						
TPU:				+/-4.33						
QC1205954780 MB										
Radium-226			U	0.491	pCi/L				MJ2	01/03/2512:00
Uncert:				+/-0.393						
TPU:				+/-0.402						
QC1205954782 700252001 MS										
Radium-226	135	1.62		107	pCi/L		78.4	(75%-125%)	MJ2	01/03/2512:00
Uncert:		+/-0.465		+/-8.39						
TPU:		+/-0.572		+/-19.2						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
J	Value is estimated
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
H	Analytical holding time was exceeded
<	Result is less than value reported
>	Result is greater than value reported

QC Summary

Workorder: **700476**

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

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
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.
** 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.

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Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

700475
700476

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

Project #: 175569434
GEL Quote #:
COC Number [1]: 2 Sample Cooler(s) 1
PO Number: GPC82177-0005

GEL Work Order Number: **GEL Project Manager: Alaina Pinnick**

Client Name: Georgia Power — Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _2_ — Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Andreas Shoredits, Bryan Pennell, Jaiden Stidston — Send Results To: jabraham@southernco.com EDD@stantec.com jennifer.kolbe@stantec.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	*Metals (6020B)	**Metals (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	RAD 226-228 Cmbd	Mercury (7470B)	Fe2+/ Mn2+ (6020B) Field Filtered	Nitrate/ Nitrite (EPA Method 353.2)			Comments (task_code: ARK-CCR-ASSMT-2024S2)
<-- Preservative Type (6)									NI	NI				NI	NI	NI	SA			
ARK-ARAMW-10	12-12-24	1310	N	N	WG				X	X	X	X	X	X	X		X			
ARK-ARAMW-10	12-12-24	1310	N	Y	WG											X				*Metals: Ag, B, Ca, Al, K, Mg, Na, Fe, Mn, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
ARK-ARAMW-11	12-12-24	1515	N	N	WG				X	X	X	X	X	X	X		X			
ARK-ARAMW-11	12-12-24	1515	N	Y	WG											X				**Metals: Ag, B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1	[signature]	ANDREAS SHOREDITS Stantec	12/12/24	[signature]		12/13/24 920
2						
3						

TAT Requested: Normal: X Rush: ___ Specify: ___ (Subject to Surcharge)
Fax Results: [ ] Yes [X] No
Select Deliverable: [ ] C of A [ ] QC Summary [ ] level 1 [X] Level 2 [ ] Level 3 [ ] Level 4
Additional Remarks: Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3
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.)

700475
700476

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order:
Received By: QG	Date Received: 12/13/24
Carrier and Tracking Number	Circle Applicable: (FedEx Express) FedEx Ground UPS Field Services Courier Other 2831 9572 2650

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): 0 (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: 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?	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 MJ Date 12/16/24 Page 1 of 1

List of current GEL Certifications as of 08 January 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

February 19, 2025

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Arkwright CCR Groundwater Compliance Plant Arkwright Ash Pond 2-Dissolved Metals
Work Order: 707434

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 05, 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
707434001	ARK-ARGWA-19	Ground Water	02/04/25 09:26	02/05/25 14:30
707434002	ARK-ARGWA-20	Ground Water	02/04/25 12:40	02/05/25 14:30
707434003	ARK-ARGWC-21	Ground Water	02/04/25 17:40	02/05/25 14:30
707434004	ARK-ARGWC-22	Ground Water	02/04/25 15:50	02/05/25 14:30
707434005	ARK-ARGWC-23	Ground Water	02/04/25 11:20	02/05/25 14:30
707434006	ARK-ARAMW-1	Ground Water	02/04/25 13:55	02/05/25 14:30
707434007	ARK-ARAMW-2	Ground Water	02/04/25 16:10	02/05/25 14:30
707434008	ARK-ARAMW-7	Ground Water	02/04/25 18:35	02/05/25 14:30
707434009	ARK-ARAMW-8	Ground Water	02/04/25 14:20	02/05/25 14:30
707434010	ARK-ARAMW-9	Ground Water	02/04/25 17:15	02/05/25 14:30
707434011	ARK-ARAMW-10	Ground Water	02/04/25 13:30	02/05/25 14:30
707434012	ARK-ARAMW-11	Ground Water	02/04/25 15:20	02/05/25 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	13-FEB-2025
SW846 3005A	18-FEB-2025
SW846 7470A Prep	07-FEB-2025

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 160	11-FEB-2025
SW846 3005A/6020B	15-FEB-2025
SW846 3005A/6020B	16-FEB-2025
SW846 3005A/6020B	18-FEB-2025
SW846 7470A	10-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

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0005
Enclosures

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

Certificate of Analysis Report
for

GPCC003 Georgia Power Company

Client SDG: 707434 GEL Work Order: 707434

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: February 19, 2025

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Dissolved Metals

Client Sample ID:	ARK-ARGWA-19	Project:	GPCC01924
Sample ID:	707434001	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 09:26		
Receive Date:	05-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	PRB	02/18/25	2254	2751457	1
Manganese	U	ND	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	BB2	02/13/25	0855	2745986
SW846 3005A	ICP-MS 3005A PREP	BB2	02/18/25	0845	2751456

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: February 19, 2025

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Dissolved Metals

Client Sample ID:	ARK-ARGWA-20	Project:	GPCC01924
Sample ID:	707434002	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 12:40		
Receive Date:	05-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7470 Cold Vapor Dissolved Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/10/25	1226	2746474	1
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Metals* "As Received"												
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	PRB	02/15/25	2047	2745987	2
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0864	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		10.7	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00607	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					
Magnesium		5.34	0.0100	0.0300	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.46	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		11.0	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.0708	0.00520	0.0150	mg/L	1.00	1	PRB	02/16/25	1037	2745987	3
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	PRB	02/18/25	2257	2751457	4
Manganese	J	0.00185	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	BB2	02/13/25	0855	2745986
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746473
SW846 3005A	ICP-MS 3005A PREP	BB2	02/18/25	0845	2751456

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Certificate of Analysis

Report Date: February 19, 2025

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Dissolved Metals

Client Sample ID:	ARK-ARGWA-20	Project:	GPCC01924
Sample ID:	707434002	Client ID:	GPCC003

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	

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: 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 19, 2025

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Dissolved Metals

Client Sample ID:	ARK-ARGWC-21	Project:	GPCC01924
Sample ID:	707434003	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 17:40		
Receive Date:	05-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron		0.585	0.0330	0.100	mg/L	1.00	1	PRB	02/18/25	2300	2751457	1
Manganese		0.315	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	BB2	02/13/25	0855	2745986
SW846 3005A	ICP-MS 3005A PREP	BB2	02/18/25	0845	2751456

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: February 19, 2025

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Dissolved Metals

Client Sample ID:	ARK-ARGWC-22	Project:	GPCC01924
Sample ID:	707434004	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 15:50		
Receive Date:	05-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron		4.97	0.0330	0.100	mg/L	1.00	1	PRB	02/18/25	2317	2751457	1
Manganese		15.2	0.100	0.500	mg/L	1.00	100	PRB	02/18/25	2320	2751457	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	02/18/25	0845	2751456
SW846 3005A	ICP-MS 3005A PREP	BB2	02/13/25	0855	2745986

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: February 19, 2025

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Dissolved Metals

Client Sample ID:	ARK-ARGWC-23	Project:	GPCC01924
Sample ID:	707434005	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 11:20		
Receive Date:	05-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron	U	ND	0.0330	0.100	mg/L	1.00	1	PRB	02/18/25	2323	2751457	1
Manganese		0.107	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	BB2	02/13/25	0855	2745986
SW846 3005A	ICP-MS 3005A PREP	BB2	02/18/25	0845	2751456

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: February 19, 2025

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Dissolved Metals

Client Sample ID:	ARK-ARAMW-1	Project:	GPCC01924
Sample ID:	707434006	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 13:55		
Receive Date:	05-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron	J	0.0657	0.0330	0.100	mg/L	1.00	1	PRB	02/18/25	2326	2751457	1
Manganese		0.131	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	BB2	02/18/25	0845	2751456
SW846 3005A	ICP-MS 3005A PREP	BB2	02/13/25	0855	2745986

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: February 19, 2025

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Dissolved Metals

Client Sample ID:	ARK-ARAMW-2	Project:	GPCC01924
Sample ID:	707434007	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 16:10		
Receive Date:	05-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron		3.24	0.0330	0.100	mg/L	1.00	1	PRB	02/18/25	2328	2751457	1
Manganese		0.659	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	BB2	02/13/25	0855	2745986
SW846 3005A	ICP-MS 3005A PREP	BB2	02/18/25	0845	2751456

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: February 19, 2025

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Dissolved Metals

Client Sample ID:	ARK-ARAMW-7	Project:	GPCC01924
Sample ID:	707434008	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 18:35		
Receive Date:	05-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron		4.61	0.0330	0.100	mg/L	1.00	1	PRB	02/18/25	2331	2751457	1
Manganese		14.5	0.100	0.500	mg/L	1.00	100	PRB	02/18/25	2334	2751457	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 160	Laboratory Filtration	SD	02/11/25	1531	2748914
SW846 3005A	ICP-MS 3005A PREP	BB2	02/13/25	0855	2745986
SW846 3005A	ICP-MS 3005A PREP	BB2	02/18/25	0845	2751456

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: February 19, 2025

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Dissolved Metals

Client Sample ID:	ARK-ARAMW-8	Project:	GPCC01924
Sample ID:	707434009	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 14:20		
Receive Date:	05-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron		0.645	0.0330	0.100	mg/L	1.00	1	PRB	02/18/25	2343	2751457	1
Manganese		0.219	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	BB2	02/18/25	0845	2751456
SW846 3005A	ICP-MS 3005A PREP	BB2	02/13/25	0855	2745986

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: February 19, 2025

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Dissolved Metals

Client Sample ID:	ARK-ARAMW-9	Project:	GPCC01924
Sample ID:	707434010	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 17:15		
Receive Date:	05-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron		0.361	0.0330	0.100	mg/L	1.00	1	PRB	02/18/25	2346	2751457	1
Manganese		0.149	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	BB2	02/13/25	0855	2745986
SW846 3005A	ICP-MS 3005A PREP	BB2	02/18/25	0845	2751456

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: February 19, 2025

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Dissolved Metals

Client Sample ID:	ARK-ARAMW-10	Project:	GPCC01924
Sample ID:	707434011	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 13:30		
Receive Date:	05-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron		0.657	0.0330	0.100	mg/L	1.00	1	PRB	02/18/25	2349	2751457	1
Manganese		17.5	0.100	0.500	mg/L	1.00	100	PRB	02/18/25	2354	2751457	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	02/13/25	0855	2745986
SW846 3005A	ICP-MS 3005A PREP	BB2	02/18/25	0845	2751456

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: February 19, 2025

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Dissolved Metals

Client Sample ID:	ARK-ARAMW-11	Project:	GPCC01924
Sample ID:	707434012	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 15:20		
Receive Date:	05-FEB-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron		0.148	0.0330	0.100	mg/L	1.00	1	PRB	02/18/25	2351	2751457	1
Manganese		13.2	0.100	0.500	mg/L	1.00	100	PRB	02/18/25	2357	2751457	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	BB2	02/18/25	0845	2751456
SW846 3005A	ICP-MS 3005A PREP	BB2	02/13/25	0855	2745986

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: February 19, 2025

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

Contact: **Joju Abraham**

Workorder: **707434**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2745987										
QC1205997694 LCS										
Aluminum	2.00			2.01	mg/L		100	(80%-120%)	PRB	02/15/25 20:24
Antimony	0.0500			0.0478	mg/L		95.6	(80%-120%)		
Arsenic	0.0500			0.0476	mg/L		95.1	(80%-120%)		
Barium	0.0500			0.0514	mg/L		103	(80%-120%)		
Beryllium	0.0500			0.0544	mg/L		109	(80%-120%)		
Boron	0.100			0.108	mg/L		108	(80%-120%)		02/16/25 10:27
Cadmium	0.0500			0.0512	mg/L		102	(80%-120%)		02/15/25 20:24
Calcium	2.00			2.11	mg/L		106	(80%-120%)		
Chromium	0.0500			0.0500	mg/L		99.9	(80%-120%)		
Cobalt	0.0500			0.0497	mg/L		99.4	(80%-120%)		
Lead	0.0500			0.0519	mg/L		104	(80%-120%)		
Lithium	0.0500			0.0530	mg/L		106	(80%-120%)		
Magnesium	2.00			1.96	mg/L		97.9	(80%-120%)		

QC Summary

Workorder: **707434**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2745987										
Molybdenum	0.0500			0.0503	mg/L		101	(80%-120%)	PRB	02/15/25 20:24
Potassium	2.00			2.01	mg/L		101	(80%-120%)		
Selenium	0.0500			0.0501	mg/L		100	(80%-120%)		
Silver	0.0500			0.0527	mg/L		105	(80%-120%)		
Sodium	2.00			1.82	mg/L		91.2	(80%-120%)		
Thallium	0.0500			0.0492	mg/L		98.4	(80%-120%)		
QC1205997693 MB										
Aluminum			U	ND	mg/L					02/15/25 20:18
Antimony			U	ND	mg/L					
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					02/16/25 10:24
Cadmium			U	ND	mg/L					02/15/25 20:18
Calcium			U	ND	mg/L					

QC Summary

Workorder: **707434**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2745987											
Chromium				U	ND	mg/L				PRB	02/15/25 20:18
Cobalt				U	ND	mg/L					
Lead				U	ND	mg/L					
Lithium				U	ND	mg/L					
Magnesium				U	ND	mg/L					
Molybdenum				U	ND	mg/L					
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Silver				U	ND	mg/L					
Sodium				U	ND	mg/L					
Thallium				U	ND	mg/L					
QC1205997695 707434001 MS											
Aluminum	2.00	U	ND		2.05	mg/L		102	(75%-125%)		02/15/25 20:30
Antimony	0.0500	U	ND		0.0471	mg/L		94.1	(75%-125%)		
Arsenic	0.0500	U	ND		0.0479	mg/L		94	(75%-125%)		

QC Summary

Workorder: **707434**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2745987											
Barium	0.0500		0.0318		0.0829	mg/L		102	(75%-125%)	PRB	02/15/25 20:30
Beryllium	0.0500	U	ND		0.0565	mg/L		113	(75%-125%)		
Boron	0.100		0.0269		0.140	mg/L		113	(75%-125%)		02/16/25 10:29
Cadmium	0.0500	U	ND		0.0504	mg/L		101	(75%-125%)		02/15/25 20:30
Calcium	2.00		8.71		10.8	mg/L		N/A	(75%-125%)		
Chromium	0.0500	U	ND		0.0504	mg/L		98.5	(75%-125%)		
Cobalt	0.0500	U	ND		0.0485	mg/L		97	(75%-125%)		
Lead	0.0500	U	ND		0.0517	mg/L		103	(75%-125%)		
Lithium	0.0500	J	0.00441		0.0585	mg/L		108	(75%-125%)		
Magnesium	2.00		3.32		5.39	mg/L		104	(75%-125%)		
Manganese	0.0500	U	ND		0.0495	mg/L		98.4	(75%-125%)		
Molybdenum	0.0500	J	0.000373		0.0517	mg/L		103	(75%-125%)		
Potassium	2.00		2.08		4.10	mg/L		101	(75%-125%)		
Selenium	0.0500	U	ND		0.0489	mg/L		97.7	(75%-125%)		

QC Summary

Workorder: **707434**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2745987											
Silver	0.0500	U	ND		0.0520	mg/L		104	(75%-125%)	PRB	02/15/25 20:30
Sodium	2.00		9.92		12.0	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0474	mg/L		94.7	(75%-125%)		
QC1205997696 707434001 MSD											
Aluminum	2.00	U	ND		1.99	mg/L	2.75	99.5	(0%-20%)		02/15/25 20:33
Antimony	0.0500	U	ND		0.0472	mg/L	0.231	94.3	(0%-20%)		
Arsenic	0.0500	U	ND		0.0462	mg/L	3.6	90.7	(0%-20%)		
Barium	0.0500		0.0318		0.0796	mg/L	3.99	95.6	(0%-20%)		
Beryllium	0.0500	U	ND		0.0550	mg/L	2.69	110	(0%-20%)		
Boron	0.100		0.0269		0.141	mg/L	0.433	114	(0%-20%)		02/16/25 10:31
Cadmium	0.0500	U	ND		0.0503	mg/L	0.179	101	(0%-20%)		02/15/25 20:33
Calcium	2.00		8.71		10.5	mg/L	2.65	N/A	(0%-20%)		
Chromium	0.0500	U	ND		0.0487	mg/L	3.41	95.1	(0%-20%)		
Cobalt	0.0500	U	ND		0.0469	mg/L	3.43	93.7	(0%-20%)		
Lead	0.0500	U	ND		0.0503	mg/L	2.62	101	(0%-20%)		

QC Summary

Workorder: **707434**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2745987											
Lithium	0.0500	J	0.00441		0.0566	mg/L	3.29	104	(0%-20%)	PRB	02/15/25 20:33
Magnesium	2.00		3.32		5.12	mg/L	5.1	90.4	(0%-20%)		
Manganese	0.0500	U	ND		0.0487	mg/L	1.62	96.8	(0%-20%)		
Molybdenum	0.0500	J	0.000373		0.0510	mg/L	1.52	101	(0%-20%)		
Potassium	2.00		2.08		3.99	mg/L	2.83	95.5	(0%-20%)		
Selenium	0.0500	U	ND		0.0471	mg/L	3.78	94.1	(0%-20%)		
Silver	0.0500	U	ND		0.0514	mg/L	1.26	103	(0%-20%)		
Sodium	2.00		9.92		11.6	mg/L	3.59	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0468	mg/L	1.32	93.5	(0%-20%)		
QC1205997697 707434001 SDILT											
Aluminum		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/15/25 20:39
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			31.8		6.04	ug/L	5		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		

QC Summary

Workorder: **707434**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2745987										
Boron		26.9	J	7.96	ug/L	47.8		(0%-20%)	PRB	02/16/25 10:33
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/15/25 20:39
Calcium		8710		1650	ug/L	5.5		(0%-20%)		
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Cobalt	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium	J	4.41	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		3320		640	ug/L	3.56		(0%-20%)		
Manganese	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	J	0.373	U	ND	ug/L	N/A		(0%-20%)		
Potassium		2080		390	ug/L	6.31		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Silver	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		9920		1700	ug/L	14.5		(0%-20%)		

QC Summary

Workorder: **707434**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2745987										
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)	PRB	02/15/25 20:39
Batch 2751457										
QC1206003330 FLTB										
Iron			U	ND	mg/L				PRB	02/18/25 22:48
Manganese			U	ND	mg/L					
QC1206008501 LCS										
Iron	2.00			1.97	mg/L		98.6	(80%-120%)		02/18/25 22:51
Manganese	0.0500			0.0495	mg/L		99	(80%-120%)		
QC1206008500 MB										
Iron			U	ND	mg/L					02/18/25 22:45
Manganese			U	ND	mg/L					
QC1206008502 707434003 MS										
Iron	2.00	0.585		2.43	mg/L		92.1	(75%-125%)		02/18/25 23:03
Manganese	0.0500	0.315		0.352	mg/L		N/A	(75%-125%)		
QC1206008503 707434003 MSD										
Iron	2.00	0.585		2.41	mg/L	0.663	91.2	(0%-20%)		02/18/25 23:06
Manganese	0.0500	0.315		0.354	mg/L	0.632	N/A	(0%-20%)		
QC1206008504 707434003 SDILT										
Iron		585		119	ug/L	1.9		(0%-20%)		02/18/25 23:08

QC Summary

Workorder: **707434**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2751457										
Manganese		315		65.0	ug/L	3.11		(0%-20%)	PRB	02/18/25 23:08
Metals Analysis-Mercury										
Batch 2746474										
QC1205998412 707431002 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/10/25 11:46
QC1205998411 LCS										
Mercury	0.00200			0.00213	mg/L		106	(80%-120%)		02/10/25 11:37
QC1205998410 MB										
Mercury			U	ND	mg/L					02/10/25 12:46
QC1205998413 707431002 MS										
Mercury	0.00200	U	ND	0.00209	mg/L		105	(75%-125%)		02/10/25 11:48
QC1205998414 707431002 SDILT										
Mercury		U	ND	U	ND	ug/L	N/A		(0%-10%)	02/10/25 11:50

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: **707434**

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.

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 #: 707434

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 36
Analytical Batch: 2745987

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2745986

Filtration Method: EPA 160
Filtration Procedure: GL-LB-E-034 REV# 4
Filtration Batch: 2748914

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

GEL Sample ID#	Client Sample Identification
707434001	ARK-ARGWA-19
707434002	ARK-ARGWA-20
1206003330	Filtration Blank (FLTB)
1205997693	Method Blank (MB)**ICP-MS**
1205997694	Laboratory Control Sample (LCS)
1205997697	707434001(ARK-ARGWA-19L) Serial Dilution (SD)
1205997695	707434001(ARK-ARGWA-19S) Matrix Spike (MS)
1205997696	707434001(ARK-ARGWA-19SD) 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: 2751457

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2751456

Filtration Method: EPA 160
Filtration Procedure: GL-LB-E-034 REV# 4
Filtration Batch: 2748914

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

GEL Sample ID#	Client Sample Identification
707434001	ARK-ARGWA-19
707434002	ARK-ARGWA-20
707434003	ARK-ARGWC-21
707434004	ARK-ARGWC-22
707434005	ARK-ARGWC-23
707434006	ARK-ARAMW-1
707434007	ARK-ARAMW-2
707434008	ARK-ARAMW-7
707434009	ARK-ARAMW-8
707434010	ARK-ARAMW-9
707434011	ARK-ARAMW-10
707434012	ARK-ARAMW-11
1206003330	Filtration Blank (FLTB)
1206008500	Method Blank (MB)**ICP-MS**
1206008501	Laboratory Control Sample (LCS)
1206008504	707434003(ARK-ARGWC-21L) Serial Dilution (SD)
1206008502	707434003(ARK-ARGWC-21S) Matrix Spike (MS)
1206008503	707434003(ARK-ARGWC-21SD) 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 707434004 (ARK-ARGWC-22), 707434008 (ARK-ARAMW-7), 707434011 (ARK-ARAMW-10) and 707434012 (ARK-ARAMW-11) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	707434			
	004	**008**	**011**	**012**
Manganese	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: 2746474

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2746473

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

GEL Sample ID#	Client Sample Identification
707434002	ARK-ARGWA-20
1205998410	Method Blank (MB)**CVAA**
1205998411	Laboratory Control Sample (LCS)
1205998414	707431002(ARK-ARGWA-20L) Serial Dilution (SD)
1205998412	707431002(ARK-ARGWA-20D) Sample Duplicate (DUP)
1205998413	707431002(ARK-ARGWA-20S) 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.

Rev. 1

707434

Page: 1 of 2
Project # 175569434
GEL Quote #:
COC Number (1): + 3 Sample Cooler(s) 6
PO Number: GPC82177-0005

GEL Laboratories LLC
Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Alaina Pinnick*

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

Client Name: Georgia Power — Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond 2 — Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Devon Abuan, Jacob Ashe, Jackson Bankston, Max Moore — Send Results To: jabraham@southernco.com EDD@stantec.com jennifer.kolbe@stantec.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				NI	NI	NI	NI			<-- Preservative Type (6)
									*Metals (6020B)	**Metals (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	RAD 226-228 Cmbd	Mercury (7470B)	Fe2+/ Mn2+ (6020B) Field Filtered	*Metals (6020B) Field Filtered			Comments (task_code: ARK-CCR-ASSMT-2025S1)
ARK-ARGWA-19	02-04-25	0926	N	Y	WG			1								X				
ARK-ARGWA-20	02-04-25	1240	N	Y	WG			1									X			Additional analysis of filtered sample for *Metals (see below)
ARK-ARGWC-21	02-04-25	1740	N	Y	WG			1								X				*Metals: Ag, B, Ca, Al, K, Mg, Na, Fe, Mn, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
ARK-ARGWC-22	02-04-25	1550	N	Y	WG			1								X				
ARK-ARGWC-23	02-04-25	1120	N	Y	WG			1								X				**Metals: Ag, B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
ARK-ARAMW-1	02-04-25	1355	N	Y	WG			1								X				
ARK-ARAMW-2	02-04-25	1610	N	Y	WG			1								X				
ARK-ARAMW-7	02-04-25	1835	N	Y	WG			1								X				
ARK-ARAMW-8	02-04-25	1420	N	Y	WG			1								X				
ARK-ARAMW-9	02-04-25	1715	N	Y	WG			1								X				

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	02/05/2025	1		2/5/25
2			2/5/25 1430	2		
3				3		

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

Fax Results: [ ] Yes [X] No

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

Additional Remarks: Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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

2/6/2025

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 # 175569434
GEL Quote #:
COC Number (1): + 3 Sample Cooler(s) 6
PO Number: GPC82177-0005

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

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Alaina Pinnick*

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

Client Name: Georgia Power — Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond 2 — Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Devon Abuan, Jacob Ashe, Jackson Bankston, Max Moore
Send Results To: jabraham@southernco.com EDD@stantec.com jennifer.kolbe@stantec.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	*Metals (6020B)	**Metals (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	RAD 226-228 Cmbd	Mercury (7470B)	Fe2+/ Mn2+ (6020B) Field Filtered				<-- Preservative Type (6)
ARK-ARAMW-10	02-04-25	1330	N	Y	WG			1								X				
ARK-ARAMW-11	02-04-25	1520	N	Y	WG			1								X				

Comments (task_code: ARK-CCR-ASSMT-2025S1)

*Metals: Ag, B, Ca, Al, K, Mg, Na, Fe, Mn, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl

**Metals: Ag, B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	02/05/2025	1		2/5/25
2			2/5/25 1430			2/5/25 1430
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 [X] No

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

Additional Remarks: Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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

2/6/2025

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: 1 of 2
Project # 175569434
GEL Quote #:
COC Number (1): 1 Sample Cooler(s) 6
PO Number: GPC82177-0005

Page 33 of 36 SDG: 707434

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

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Alaina Pinnick*

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

707434

Client Name: Georgia Power Phone # (937-344-6533)

Project/Site Name: Plant Arkwright Ash Pond Fax: N/A

Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308

Collected By: Devon Abuan, Jacob Ashe, Jackson Barkston, Max Moore

Send Results To: jabraham@southernco.com EDD@stantec.com jennifer.kolbe@stantec.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 (6020B)	NI **Metals (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	NI *Metals (6020B) Field Filtered			<-- Preservative Type (6)
ARK-ARGWA-19	02-04-25	0926	N	Y	WG											X				
ARK-ARGWA-20	02-04-25	1240	N	Y	WG												X			Additional analysis of filtered sample for *Metals (see below)
ARK-ARGWC-21	02-04-25	1740	N	Y	WG											X				*Metals: Ag, B, Ca, Al, K, Mg, Na, Fe, Mn, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
ARK-ARGWC-22	02-04-25	1550	N	Y	WG											X				
ARK-ARGWC-23	02-04-25	1120	N	Y	WG											X				**Metals: Ag, B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
ARK-ARAMW-1	02-04-25	1355	N	Y	WG											X				
ARK-ARAMW-2	02-04-25	1610	N	Y	WG											X				
ARK-ARAMW-7	02-04-25	1835	N	Y	WG											X				
ARK-ARAMW-8	02-04-25	1420	N	Y	WG											X				
ARK-ARAMW-9	02-04-25	1715	N	Y	WG											X				

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	02/05/2025	1		2/5/25
2			2/5/25 1430	2		2/5/25 1430
3				3		

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

Fax Results: [ ] Yes [X] No

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

Additional Remarks: Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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.)

Page: 2 of 2
Project # 175569434
GEL Quote #:
COC Number (1): 1 Sample Cooler(s) 6
PO Number: GPC82177-0005

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

Chain of Custody and Analytical Request

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GEL Laboratories, LLC
2040 Savage Road
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Phone: (843) 556-8171
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Client Name: Georgia Power Phone # (937-344-6533)

Project/Site Name: Plant Arkwright Ash Pond __ Fax: N/A

Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308

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Send Results To: jabraham@southernco.com EDD@stantec.com jennifer.kolbe@stantec.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 (6020B) NI	**Metals (6020B) NI	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	RAD 226-228 Cmbd NI	Mercury (7470B) NI	Fe2+/ Mn2+ (6020B) Field Filtered NI			<-- Preservative Type (6)
ARK-ARAMW-10	02-04-25	1330	N	Y	WG											X			
ARK-ARAMW-11	02-04-25	1520	N	Y	WG											X			

Comments (task_code: ARK-CCR-ASSMT-2025S1)

*Metals: Ag, B, Ca, Al, K, Mg, Na, Fe, Mn, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl

**Metals: Ag, B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	02/05/2025	1		2/5/25
2			2/5/25 1430			2/5/25 1430
3				3		

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

Fax Results: [ ] Yes [X] No

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

Additional Remarks: Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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

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

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

1.) Chain of Custody Number = Client Determined

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

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

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

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
As = Arsenic **Hg**= Mercury
Ba = Barium **Se**= Selenium
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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 234 of 366 SDG: 60434

707343
707453 707454
707431 707433

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC | SDG/AR/COC/Work Order: | GEL PM:

Received By: AW | Date Received at GEL: 2-5-25

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services (Courier) Client Other:

IR Temp gun # 4-24 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	5		Cooler 6	2	
Cooler 2	4		Cooler 7	3	
Cooler 3	3		Cooler 8	4	
Cooler 4	2		Cooler 9	5	
Cooler 5	3		Cooler 10	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): Ø (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) WO# 707431 ARK-AP2-FD-04 has dissolved metals not on coc
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:
cooler 11-1
cooler 12-2

PM (or PMA) review: Initials TNB Date FEB 07 2025

☐ Continuation Form Required when selected

List of current GEL Certifications as of 19 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

March 04, 2025

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Arkwright CCR Groundwater Compliance Plant Arkwright Ash Pond 2-Radiochemistry
Work Order: 707433

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 05, 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
707433001	ARK-ARGWA-19	Ground Water	02/04/25 09:26	02/05/25 14:30
707433002	ARK-ARGWA-20	Ground Water	02/04/25 12:40	02/05/25 14:30
707433003	ARK-ARGWC-21	Ground Water	02/04/25 17:40	02/05/25 14:30
707433004	ARK-ARGWC-22	Ground Water	02/04/25 15:50	02/05/25 14:30
707433005	ARK-ARGWC-23	Ground Water	02/04/25 11:20	02/05/25 14:30
707433006	ARK-ARAMW-1	Ground Water	02/04/25 13:55	02/05/25 14:30
707433007	ARK-ARAMW-2	Ground Water	02/04/25 16:10	02/05/25 14:30
707433008	ARK-ARAMW-7	Ground Water	02/04/25 18:35	02/05/25 14:30
707433009	ARK-ARAMW-8	Ground Water	02/04/25 14:20	02/05/25 14:30
707433010	ARK-ARAMW-9	Ground Water	02/04/25 17:15	02/05/25 14:30
707433011	ARK-ARAMW-10	Ground Water	02/04/25 13:30	02/05/25 14:30
707433012	ARK-ARAMW-11	Ground Water	02/04/25 15:20	02/05/25 14:30
707433013	ARK-AP2-EB-03	Water	02/04/25 16:15	02/05/25 14:30
707433014	ARK-AP2-EB-04	Water	02/04/25 15:20	02/05/25 14:30
707433015	ARK-AP2-FD-03	Water	02/04/25 12:00	02/05/25 14:30
707433016	ARK-AP2-FD-04	Water	02/04/25 12:00	02/05/25 14:30

707433017	ARK-AP2-FB-03	Water	02/04/25 17:40	02/05/25 14:30
707433018	ARK-AP2-FB-04	Water	02/04/25 17:15	02/05/25 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

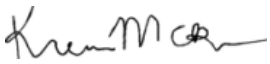
Not Applicable

Analysis Methods and Analysis Dates

Method	Run Date ID
Calculation	04-MAR-2025
EPA 903.1 Modified	04-MAR-2025
EPA 904.0/SW846 9320 Modified	04-MAR-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: GPC82177-0005
Enclosures

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

Certificate of Analysis Report
for

GPCC003 Georgia Power Company

Client SDG: 707433 GEL Work Order: 707433

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

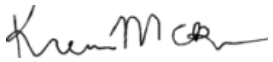
** Analyte is a surrogate compound

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, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Radiochemistry

Client Sample ID: ARK-ARGWA-19
Sample ID: 707433001
Matrix: WG
Collect Date: 04-FEB-25
Receive Date: 05-FEB-25
Collector: Client

Project: GPCC01924
Client ID: GPCC003

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	1.26	+/-1.32	2.20	+/-1.36	3.00	pCi/L			DH1	03/04/25	1149	2745803	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.63	+/-1.37	2.20	+/-1.41		pCi/L		1	NXL1	03/04/25	1659	2745863	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.369	+/-0.356	0.532	+/-0.362	1.00	pCi/L			MJ2	03/04/25	0833	2745750	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"	2745803	86.7	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

GEL LABORATORIES LLC
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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Radiochemistry

Client Sample ID: ARK-ARGWA-20
Sample ID: 707433002
Matrix: WG
Collect Date: 04-FEB-25
Receive Date: 05-FEB-25
Collector: Client

Project: GPCC01924
Client ID: GPCC003

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	0.893	+/-1.21	2.07	+/-1.23	3.00	pCi/L			DH1	03/04/25	1149	2745803	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	2.01	+/-1.32	2.07	+/-1.35		pCi/L		1	NXL1	03/04/25	1659	2745863	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.11	+/-0.517	0.352	+/-0.555	1.00	pCi/L			MJ2	03/04/25	0832	2745750	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"	2745803	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:

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Lc/LC: Critical Level
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MDC: Minimum Detectable Concentration
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Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Radiochemistry

Client Sample ID: ARK-ARGWC-21
Sample ID: 707433003
Matrix: WG
Collect Date: 04-FEB-25
Receive Date: 05-FEB-25
Collector: Client

Project: GPCC01924
Client ID: GPCC003

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	-0.418	+/-0.712	1.53	+/-0.712	3.00	pCi/L			DH1	03/04/25	1149	2745803	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.238	+/-0.750	1.53	+/-0.753		pCi/L		1	NXL1	03/04/25	1659	2745863	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.238	+/-0.238	0.309	+/-0.243	1.00	pCi/L			MJ2	03/04/25	0832	2745750	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"	2745803	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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Atlanta, Georgia 30308 Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Radiochemistry

Client Sample ID: ARK-ARGWC-22
Sample ID: 707433004
Matrix: WG
Collect Date: 04-FEB-25
Receive Date: 05-FEB-25
Collector: Client

Project: GPCC01924
Client ID: GPCC003

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		2.12	+/-1.19	1.75	+/-1.31	3.00	pCi/L			DH1	03/04/25	1149	2745803	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.26	+/-1.23	1.75	+/-1.34		pCi/L		1	NXL1	03/04/25	1659	2745863	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.139	+/-0.304	0.587	+/-0.305	1.00	pCi/L			MJ2	03/04/25	0832	2745750	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"	2745803	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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Atlanta, Georgia 30308 Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Radiochemistry

Client Sample ID: ARK-ARGWC-23
Sample ID: 707433005
Matrix: WG
Collect Date: 04-FEB-25
Receive Date: 05-FEB-25
Collector: Client

Project: GPCC01924
Client ID: GPCC003

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	0.388	+/-1.29	2.31	+/-1.29	3.00	pCi/L			DH1	03/04/25	1149	2745803	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.551	+/-1.33	2.31	+/-1.33		pCi/L		1	NXL1	03/04/25	1659	2745863	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.163	+/-0.319	0.599	+/-0.321	1.00	pCi/L			MJ2	03/04/25	0832	2745750	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"	2745803	82	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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Atlanta, Georgia 30308 Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Radiochemistry

Client Sample ID: ARK-ARAMW-1
Sample ID: 707433006
Matrix: WG
Collect Date: 04-FEB-25
Receive Date: 05-FEB-25
Collector: Client

Project: GPCC01924
Client ID: GPCC003

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	0.649	+/-1.52	2.66	+/-1.53	3.00	pCi/L			DH1	03/04/25	1149	2745803	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.28	+/-1.59	2.66	+/-1.60		pCi/L		1	NXL1	03/04/25	1659	2745863	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.628	+/-0.465	0.630	+/-0.479	1.00	pCi/L			MJ2	03/04/25	0907	2745750	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"	2745803	84.2	(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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Atlanta, Georgia 30308 Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Radiochemistry

Client Sample ID: ARK-ARAMW-2
Sample ID: 707433007
Matrix: WG
Collect Date: 04-FEB-25
Receive Date: 05-FEB-25
Collector: Client

Project: GPCC01924
Client ID: GPCC003

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		2.58	+/-1.30	1.87	+/-1.45	3.00	pCi/L			DH1	03/04/25	1149	2745803	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		2.83	+/-1.35	1.87	+/-1.50		pCi/L		1	NXL1	03/04/25	1659	2745863	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.253	+/-0.362	0.631	+/-0.364	1.00	pCi/L			MJ2	03/04/25	0907	2745750	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"	2745803	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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Contact: Joju Abraham

Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Radiochemistry

Client Sample ID: ARK-ARAMW-7
Sample ID: 707433008
Matrix: WG
Collect Date: 04-FEB-25
Receive Date: 05-FEB-25
Collector: Client

Project: GPCC01924
Client ID: GPCC003

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		2.29	+/-1.17	1.66	+/-1.31	3.00	pCi/L			DH1	03/04/25	1149	2745803	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.05	+/-1.28	1.66	+/-1.41		pCi/L		1	NXL1	03/04/25	1659	2745863	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		0.763	+/-0.509	0.577	+/-0.525	1.00	pCi/L			MJ2	03/04/25	0907	2745750	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"	2745803	84.3	(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: Joju Abraham

Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Radiochemistry

Client Sample ID: ARK-ARAMW-8
Sample ID: 707433009
Matrix: WG
Collect Date: 04-FEB-25
Receive Date: 05-FEB-25
Collector: Client

Project: GPCC01924
Client ID: GPCC003

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	0.300	+/-0.904	1.65	+/-0.907	3.00	pCi/L			DH1	03/04/25	1149	2745803	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.506	+/-0.946	1.65	+/-0.950		pCi/L		1	NXL1	03/04/25	1659	2745863	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.206	+/-0.277	0.467	+/-0.281	1.00	pCi/L			MJ2	03/04/25	0907	2745750	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"	2745803	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

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Atlanta, Georgia 30308 Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Radiochemistry

Client Sample ID: ARK-ARAMW-9
Sample ID: 707433010
Matrix: WG
Collect Date: 04-FEB-25
Receive Date: 05-FEB-25
Collector: Client

Project: GPCC01924
Client ID: GPCC003

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		2.57	+/-1.08	1.39	+/-1.27	3.00	pCi/L			DH1	03/04/25	1149	2745803	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		3.75	+/-1.25	1.39	+/-1.43		pCi/L		1	NXL1	03/04/25	1659	2745863	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.18	+/-0.628	0.668	+/-0.657	1.00	pCi/L			MJ2	03/04/25	0907	2745750	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"	2745803	88.7	(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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Atlanta, Georgia 30308 Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Radiochemistry

Client Sample ID: ARK-ARAMW-10
Sample ID: 707433011
Matrix: WG
Collect Date: 04-FEB-25
Receive Date: 05-FEB-25
Collector: Client

Project: GPCC01924
Client ID: GPCC003

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		3.09	+/-1.27	1.69	+/-1.50	3.00	pCi/L			DH1	03/04/25	1149	2745803	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum		4.47	+/-1.38	1.69	+/-1.62		pCi/L		1	NXL1	03/04/25	1659	2745863	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226		1.38	+/-0.536	0.360	+/-0.630	1.00	pCi/L			MJ2	03/04/25	0907	2745750	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"	2745803	84.4	(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: Joju Abraham

Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Radiochemistry

Client Sample ID: ARK-ARAMW-11
Sample ID: 707433012
Matrix: WG
Collect Date: 04-FEB-25
Receive Date: 05-FEB-25
Collector: Client

Project: GPCC01924
Client ID: GPCC003

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	2.42	+/-1.81	2.92	+/-1.91	3.00	pCi/L			DH1	03/04/25	1149	2745803	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	2.70	+/-1.83	2.92	+/-1.93		pCi/L		1	NXL1	03/04/25	1659	2745863	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.276	+/-0.276	0.388	+/-0.280	1.00	pCi/L			MJ2	03/04/25	0907	2745750	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"	2745803	79.8	(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: Joju Abraham

Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Radiochemistry

Client Sample ID: ARK-AP2-EB-03 Project: GPCC01924
Sample ID: 707433013 Client ID: GPCC003
Matrix: WQ
Collect Date: 04-FEB-25
Receive Date: 05-FEB-25
Collector: Client

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	0.802	+/-1.17	2.01	+/-1.19	3.00	pCi/L			DH1	03/04/25	1149	2745803	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.08	+/-1.25	2.01	+/-1.26		pCi/L		1	NXL1	03/04/25	1659	2745863	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.277	+/-0.430	0.767	+/-0.432	1.00	pCi/L			MJ2	03/04/25	0907	2745750	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"	2745803	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: Joju Abraham

Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Radiochemistry

Client Sample ID: ARK-AP2-EB-04 Project: GPCC01924
Sample ID: 707433014 Client ID: GPCC003
Matrix: WQ
Collect Date: 04-FEB-25
Receive Date: 05-FEB-25
Collector: Client

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	0.521	+/-0.864	1.52	+/-0.874	3.00	pCi/L			DH1	03/04/25	1150	2745803	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.703	+/-0.912	1.52	+/-0.922		pCi/L		1	NXL1	03/04/25	1659	2745863	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.182	+/-0.292	0.529	+/-0.294	1.00	pCi/L			MJ2	03/04/25	0924	2745750	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"	2745803	80.5	(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: Joju Abraham

Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Radiochemistry

Client Sample ID: ARK-AP2-FD-03
Sample ID: 707433015
Matrix: WQ
Collect Date: 04-FEB-25
Receive Date: 05-FEB-25
Collector: Client

Project: GPCC01924
Client ID: GPCC003

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	1.13	+/-1.10	1.81	+/-1.14	3.00	pCi/L			DH1	03/04/25	1145	2745803	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.53	+/-1.17	1.81	+/-1.20		pCi/L		1	NXL1	03/04/25	1659	2745863	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.400	+/-0.386	0.577	+/-0.394	1.00	pCi/L			MJ2	03/04/25	0924	2745750	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"	2745803	87.1	(15%-125%)

Notes:

The MDC is a sample specific MDC.
TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
Lc/LC: Critical Level
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Mtd.: Method
PF: Prep Factor
RL: Reporting Limit
TPU: Total Propagated Uncertainty

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

Certificate of Analysis

Company : Georgia Power Company, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Radiochemistry

Client Sample ID: ARK-AP2-FD-04
Sample ID: 707433016
Matrix: WQ
Collect Date: 04-FEB-25
Receive Date: 05-FEB-25
Collector: Client

Project: GPCC01924
Client ID: GPCC003

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	1.08	+/-1.09	1.80	+/-1.12	3.00	pCi/L			DH1	03/04/25	1145	2745803	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.18	+/-1.11	1.80	+/-1.14		pCi/L		1	NXL1	03/04/25	1659	2745863	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.101	+/-0.198	0.393	+/-0.198	1.00	pCi/L			MJ2	03/04/25	0924	2745750	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"	2745803	89	(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, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Radiochemistry

Client Sample ID: ARK-AP2-FB-03
Sample ID: 707433017
Matrix: WQ
Collect Date: 04-FEB-25
Receive Date: 05-FEB-25
Collector: Client

Project: GPCC01924
Client ID: GPCC003

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	+/-0.925	1.49	+/-0.961	3.00	pCi/L			DH1	03/04/25	1145	2745803	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	1.33	+/-0.990	1.49	+/-1.03		pCi/L		1	NXL1	03/04/25	1659	2745863	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.311	+/-0.352	0.573	+/-0.357	1.00	pCi/L			MJ2	03/04/25	0924	2745750	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"	2745803	79	(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, Southern
Address : Company
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308 Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Radiochemistry

Client Sample ID: ARK-AP2-FB-04
Sample ID: 707433018
Matrix: WQ
Collect Date: 04-FEB-25
Receive Date: 05-FEB-25
Collector: Client

Project: GPCC01924
Client ID: GPCC003

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	0.533	+/-1.20	2.12	+/-1.21	3.00	pCi/L			DH1	03/04/25	1145	2745803	1
Radium-226+Radium-228 Calculation "See Parent Products"														
Radium-226+228 Sum	U	0.875	+/-1.27	2.12	+/-1.28		pCi/L		1	NXL1	03/04/25	1659	2745863	2
Rad Radium-226														
Lucas Cell, Ra226, Liquid "As Received"														
Radium-226	U	0.343	+/-0.414	0.684	+/-0.420	1.00	pCi/L			MJ2	03/04/25	0924	2745750	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"	2745803	83.5	(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

Product: **Radium-226+Radium-228 Calculation**
Analytical Method: Calculation
Analytical Procedure: GL-RAD-D-003 REV# 45
Analytical Batch: 2745863

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

GEL Sample ID#	Client Sample Identification
707433001	ARK-ARGWA-19
707433002	ARK-ARGWA-20
707433003	ARK-ARGWC-21
707433004	ARK-ARGWC-22
707433005	ARK-ARGWC-23
707433006	ARK-ARAMW-1
707433007	ARK-ARAMW-2
707433008	ARK-ARAMW-7
707433009	ARK-ARAMW-8
707433010	ARK-ARAMW-9
707433011	ARK-ARAMW-10
707433012	ARK-ARAMW-11
707433013	ARK-AP2-EB-03
707433014	ARK-AP2-EB-04
707433015	ARK-AP2-FD-03
707433016	ARK-AP2-FD-04
707433017	ARK-AP2-FB-03
707433018	ARK-AP2-FB-04

Data Summary:

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

Product: **GFPC Ra228, Liquid**
Analytical Method: EPA 904.0/SW846 9320 Modified
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2745803

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

GEL Sample ID#	Client Sample Identification
707433001	ARK-ARGWA-19
707433002	ARK-ARGWA-20
707433003	ARK-ARGWC-21
707433004	ARK-ARGWC-22

707433005	ARK-ARGWC-23
707433006	ARK-ARAMW-1
707433007	ARK-ARAMW-2
707433008	ARK-ARAMW-7
707433009	ARK-ARAMW-8
707433010	ARK-ARAMW-9
707433011	ARK-ARAMW-10
707433012	ARK-ARAMW-11
707433013	ARK-AP2-EB-03
707433014	ARK-AP2-EB-04
707433015	ARK-AP2-FD-03
707433016	ARK-AP2-FD-04
707433017	ARK-AP2-FB-03
707433018	ARK-AP2-FB-04
1205997317	Method Blank (MB)
1205997318	707433001(ARK-ARGWA-19) Sample Duplicate (DUP)
1205997319	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: 2745750

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

GEL Sample ID#	Client Sample Identification
707433001	ARK-ARGWA-19
707433002	ARK-ARGWA-20
707433003	ARK-ARGWC-21
707433004	ARK-ARGWC-22
707433005	ARK-ARGWC-23
707433006	ARK-ARAMW-1
707433007	ARK-ARAMW-2
707433008	ARK-ARAMW-7
707433009	ARK-ARAMW-8
707433010	ARK-ARAMW-9
707433011	ARK-ARAMW-10
707433012	ARK-ARAMW-11
707433013	ARK-AP2-EB-03
707433014	ARK-AP2-EB-04
707433015	ARK-AP2-FD-03
707433016	ARK-AP2-FD-04
707433017	ARK-AP2-FB-03
707433018	ARK-AP2-FB-04
1205997179	Method Blank (MB)

1205997180	707433001(ARK-ARGWA-19) Sample Duplicate (DUP)
1205997181	707433001(ARK-ARGWA-19) Matrix Spike (MS)
1205997182	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, 1205997181 (ARK-ARGWA-19MS), aliquot was reduced to conserve sample volume.

Certification Statement

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

QC Summary

Client : **Georgia Power Company, Southern Company**
241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia

Contact: **Joju Abraham**

Workorder: **707433**

Report Date: March 4, 2025

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch 2745803										
QC1205997318 707433001 DUP										
Radium-228	U	1.26	U	1.00	pCi/L	0		N/A	DH1	03/04/2511:44
	Uncert:	+/-1.32		+/-0.928						
	TPU:	+/-1.36		+/-0.963						
QC1205997319 LCS										
Radium-228	84.1			74.8	pCi/L		88.9	(75%-125%)	DH1	03/04/2511:44
	Uncert:			+/-4.47						
	TPU:			+/-19.5						
QC1205997317 MB										
Radium-228			U	-0.612	pCi/L				DH1	03/04/2511:44
	Uncert:			+/-0.537						
	TPU:			+/-0.537						
Rad Ra-226										
Batch 2745750										
QC1205997180 707433001 DUP										
Radium-226	U	0.369		0.501	pCi/L	30.5		(0% - 100%)	MJ2	03/04/2509:44
	Uncert:	+/-0.356		+/-0.378						
	TPU:	+/-0.362		+/-0.386						
QC1205997182 LCS										
Radium-226	54.4			50.2	pCi/L		92.2	(75%-125%)	MJ2	03/04/2509:44
	Uncert:			+/-3.76						
	TPU:			+/-9.02						
QC1205997179 MB										
Radium-226			U	0.288	pCi/L				MJ2	03/04/2509:24
	Uncert:			+/-0.337						
	TPU:			+/-0.342						
QC1205997181 707433001 MS										
Radium-226	130 U	0.369		111	pCi/L		84.9	(75%-125%)	MJ2	03/04/2509:44
	Uncert:	+/-0.356		+/-10.8						
	TPU:	+/-0.362		+/-28.3						

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

QC Summary

Workorder: **707433**

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

UI	Gamma Spectroscopy--Uncertain identification
BD	Results are either below the MDC or tracer recovery is low
h	Preparation or preservation holding time was exceeded
R	Sample results are rejected
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A	RPD or %Recovery limits do not apply.
ND	Analyte concentration is not detected above the detection limit
M	M if above MDC and less than LLD
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
FA	Failed analysis.
UJ	Gamma Spectroscopy--Uncertain identification
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
K	Analyte present. Reported value may be biased high. Actual value is expected to be lower.
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
L	Analyte present. Reported value may be biased low. Actual value is expected to be higher.
N1	See case narrative
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.
**	Analyte is a Tracer compound
M	REMP Result > MDC/CL and < RDL
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.
** 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.

Rev. 1

707431
707433

Page: 1 of 2
Project # 175569434
GEL Quote #:
COC Number (1): 1 of 2 Sample Cooler(s) 6
PO Number: GPC82177-0005

GEL Laboratories LLC
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Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Alaina Pinnick

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

Client Name: Georgia Power
Phone # (937-344-6533)

Project/Site Name: Plant Arkwright Ash Pond 2
Fax: N/A

Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308

Collected By: Devon Abuan, Jacob Ashe, Jackson Bankston, Max Moore

Send Results To: jabraham@southernco.com EDD@stantec.com jennifer.kolbe@stantec.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				NI	NI	NI				<-- Preservative Type (6)
									*Metals (6020B)	**Metals (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	RAD 226-228 Cmbd	Mercury (7470B)	Fe2+/ Mn2+ (6020B) Field Filtered				
ARK-ARGWA-19	02-04-25	0926	N	N	WG			8	X		X	X	X	X	X					
ARK-ARGWA-20	02-04-25	1240	N	N	WG			8	X		X	X	X	X	X					
ARK-ARGWC-21	02-04-25	1740	N	N	WG			8	X		X	X	X	X	X					
ARK-ARGWC-22	02-04-25	1550	N	N	WG			8	X		X	X	X	X	X					
ARK-ARGWC-23	02-04-25	1120	N	N	WG			8	X		X	X	X	X	X					
ARK-ARAMW-1	02-04-25	1355	N	N	WG			8	X		X	X	X	X	X					
ARK-ARAMW-2	02-04-25	1610	N	N	WG			8	X		X	X	X	X	X					
ARK-ARAMW-7	02-04-25	1835	N	N	WG			8	X		X	X	X	X	X					
ARK-ARAMW-8	02-04-25	1420	N	N	WG			8	X		X	X	X	X	X					
ARK-ARAMW-9	02-04-25	1715	N	N	WG			8	X		X	X	X	X	X					

Comments (task_code: ARK-CCR-ASSMT-2025S1)

*Metals: Ag, B, Ca, Al, K, Mg, Na, Fe, Mn, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl

**Metals: Ag, B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Jackson	02/05/2025	1		2/5/25
2			2/5/25 1430			
3				3		

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

Fax Results: [ ] Yes [X] No

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

Additional Remarks: Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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

2/6/2025

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.)*

Page: 2 of 2
Project # 175569434
GEL Quote #:
COC Number (1): 1 of 2 Sample Cooler(s) 6
PO Number: GPC82177-0005

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

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Alaina Pinnick*

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

Client Name: Georgia Power — Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond 2 — Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Devon Abuan, Jacob Ashe, Jackson Bankston, Max Moore — Send Results To: jabraham@southernco.com EDD@stantec.com jennifer.kolbe@stantec.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 isotope info.)	Should this sample be considered: (7) Known or possible Hazards	Total number of containers	NI *Metals (6020B)	NI **Metals (6020B)	NI Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, F, Sulfate) (300.0 Rev. 2.1 1993)	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	<-- Preservative Type (6)	Comments (task_code: ARK-CCR-ASSMT-2025S1)
ARK-ARAMW-10	02-04-25	1330	N	N	WG			8	X		X	X	X	X	X			
ARK-ARAMW-11	02-04-25	1520	N	N	WG			8	X		X	X	X	X	X			*Metals: Ag, B, Ca, Al, K, Mg, Na, Fe, Mn, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
ARK-AP2-EB-03	02-04-25	1615	EB	N	WQ			6	X		X	X	X	X	X			
ARK-AP2-EB-04	02-04-25	1520	EB	N	WQ			6	X		X	X	X	X	X			
ARK-AP2-FD-03	02-04-25	NA	FD	N	WG WQ			6	X		X	X	X	X	X			
ARK-AP2-FD-04	02-04-25	NA	FD	N	WG WQ			6	X		X	X	X	X	X			**Metals: Ag, B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
ARK-AP2-FB-03	02-04-25	1740	FB	N	WQ			6	X		X	X	X	X	X			
ARK-AP2-FB-04	02-04-25	1715	FB	N	WQ			6	X		X	X	X	X	X			

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	02/05/2025			2/5/25
2			2/5/25 1450	2		
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 [X] No

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

Additional Remarks: Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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

2/7/2025

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: 1 of 2
Project # 175569434
GEL Quote #:
COC Number [1]: 1 Sample Cooler(s) 6
PO Number: GPC82177-0005

Page 30 of 33 SDG: 707433

GEL Laboratories LLC
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Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Alaina Pinnick*

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

707431
707433

Client Name: Georgia Power Phone # (937-344-6533)

Project/Site Name: Plant Arkwright Ash Pond Fax: N/A

Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308

Collected By: Devon Abuan, Jacob Ashe, Jackson Barkston, Max Moore

Send Results To: jabraham@southernco.com EDD@stantec.com jennifer.kolbe@stantec.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	*Metals (6020B) NI	**Metals (6020B) NI	Alkalinity (300.0 R2.1) see Additional Remarks NI	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	RAD 226-228 Cmbd NI	Mercury (7470B) NI	Fe2+/ Mn2+ (6020B) Field Filtered NI			<-- Preservative Type (6)	Comments (task_code: ARK-CCR-ASSMT-2025S1)
ARK-ARGWA-19	02-04-25	0926	N	N	WG				X		X	X	X	X	X					
ARK-ARGWA-20	02-04-25	1240	N	N	WG				X		X	X	X	X	X					*Metals: Ag, B, Ca, Al, K, Mg, Na, Fe, Mn, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
ARK-ARGWC-21	02-04-25	1740	N	N	WG				X		X	X	X	X	X					
ARK-ARGWC-22	02-04-25	1550	N	N	WG				X		X	X	X	X	X					
ARK-ARGWC-23	02-04-25	1120	N	N	WG				X		X	X	X	X	X					
ARK-ARAMW-1	02-04-25	1355	N	N	WG				X		X	X	X	X	X					**Metals: Ag, B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
ARK-ARAMW-2	02-04-25	1610	N	N	WG				X		X	X	X	X	X					
ARK-ARAMW-7	02-04-25	1835	N	N	WG				X		X	X	X	X	X					
ARK-ARAMW-8	02-04-25	1420	N	N	WG				X		X	X	X	X	X					
ARK-ARAMW-9	02-04-25	1715	N	N	WG				X		X	X	X	X	X					

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	02/05/2025	1		2/5/25
2			2/5/25 1730	2		2/5/25 1430
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 [X] No

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

Additional Remarks: Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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.)

Page: 2 of 2
Project # 175569434
GEL Quote #:
COC Number (1): 1 Sample Cooler(s) 6
PO Number: GPC82177-0005

GEL Laboratories LLC
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Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Alaina Pinnick

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

Client Name: Georgia Power — Phone # (937-344-6533)

Project/Site Name: Plant Arkwright Ash Pond — Fax: N/A

Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308

Collected By: Devon Abuan, Jacob Ashe, Jackson Bankston, Max Moore

Send Results To: jabraham@southernco.com EDD@stantec.com jennifer.kolbe@stantec.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 (6020B) NI	**Metals (6020B) NI	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	RAD 226-228 Cmbd NI	Mercury (7470B) NI	Fe2+/ Mn2+ (6020B) Field Filtered NI	<-- Preservative Type (6)	Comments (task_code: ARK-CCR-ASSMT-2025S1)
ARK-ARAMW-10	02-04-25	1330	N	N	WG				X		X	X	X	X	X			
ARK-ARAMW-11	02-04-25	1520	N	N	WG				X		X	X	X	X	X			*Metals: Ag, B, Ca, Al, K, Mg, Na, Fe, Mn, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
ARK-AP2-EB-03	02-04-25	1615	EB	N	WQ				X		X	X	X	X	X			
ARK-AP2-EB-04	02-04-25	1520	EB	N	WQ				X		X	X	X	X	X			
ARK-AP2-FD-03	02-04-25	NA	FD	N	WQ				X		X	X	X	X	X			**Metals: Ag, B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
ARK-AP2-FD-04	02-04-25	NA	FD	N	WQ				X		X	X	X	X	X			
ARK-AP2-FB-03	02-04-25	1740	FB	N	WQ				X		X	X	X	X	X			
ARK-AP2-FB-04	02-04-25	1715	FB	N	WQ				X		X	X	X	X	X			

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	02/05/2025			2/5/25
2			2/5/25 1450			2/9/25 1450
3				3		

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

Fax Results: [ ] Yes [X] No

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

Additional Remarks: Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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.)

Page 33 of 33 SDG: 7433

707343
707453 707454
707431 707433

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC | SDG/AR/COC/Work Order: | GEL PM:

Received By: AW | Date Received at GEL: 2-5-25

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services (Courier) Client Other:

IR Temp gun # 4-84 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	5		Cooler 6	2	
Cooler 2	4		Cooler 7	3	
Cooler 3	3		Cooler 8	4	
Cooler 4	2		Cooler 9	5	
Cooler 5	3		Cooler 10	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): Ø (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) WO# 707431 ARK-AP2-FD-04 has dissolved metals not on coc
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:
cooler 11-1
cooler 12-2

PM (or PMA) review: Initials TMB Date FEB 07 2025

☐ Continuation Form Required when selected

List of current GEL Certifications as of 04 March 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 14, 2025

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Arkwright CCR Groundwater Compliance Plant Arkwright Ash Pond 2-Total Metals*
Work Order: 707431

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on February 05, 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 707431 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. Please see the attached email regarding the sample receipt details*707431008(ARK-ARAMW-7), 707431014(ARK-AP2-EB-04)*. The laboratory received the following sample(s):

Laboratory ID	Client ID	Matrix	Date Collected	Date Received
707431001	ARK-ARGWA-19	Ground Water	02/04/25 09:26	02/05/25 14:30
707431002	ARK-ARGWA-20	Ground Water	02/04/25 12:40	02/05/25 14:30
707431003	ARK-ARGWC-21	Ground Water	02/04/25 17:40	02/05/25 14:30
707431004	ARK-ARGWC-22	Ground Water	02/04/25 15:50	02/05/25 14:30
707431005	ARK-ARGWC-23	Ground Water	02/04/25 11:20	02/05/25 14:30
707431006	ARK-ARAMW-1	Ground Water	02/04/25 13:55	02/05/25 14:30
707431007	ARK-ARAMW-2	Ground Water	02/04/25 16:10	02/05/25 14:30
707431008	ARK-ARAMW-7	Ground Water	02/04/25 18:35	02/05/25 14:30
707431009	ARK-ARAMW-8	Ground Water	02/04/25 14:20	02/05/25 14:30
707431010	ARK-ARAMW-9	Ground Water	02/04/25 17:15	02/05/25 14:30
707431011	ARK-ARAMW-10	Ground Water	02/04/25 13:30	02/05/25 14:30
707431012	ARK-ARAMW-11	Ground Water	02/04/25 15:20	02/05/25 14:30
707431013	ARK-AP2-EB-03	Water	02/04/25 16:15	02/05/25 14:30
707431014	ARK-AP2-EB-04	Water	02/04/25 15:20	02/05/25 14:30
707431015	ARK-AP2-FD-03	Water	02/04/25 12:00	02/05/25 14:30

707431016	ARK-AP2-FD-04	Water	02/04/25 12:00	02/05/25 14:30
707431017	ARK-AP2-FB-03	Water	02/04/25 17:40	02/05/25 14:30
707431018	ARK-AP2-FB-04	Water	02/04/25 17:15	02/05/25 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	06-FEB-2025
SW846 7470A Prep	07-FEB-2025

Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	06-FEB-2025
EPA 300.0	07-FEB-2025
SM 2320B	06-FEB-2025
SM 2540C	11-FEB-2025
SW846 3005A/6020B	16-FEB-2025
SW846 3005A/6020B	18-FEB-2025
SW846 7470A	10-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

Alaina Pinnick
Project Manager

Purchase Order: GPC82177-0005
Enclosures

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

Certificate of Analysis Report
for

GPCC003 Georgia Power Company

Client SDG: 707431 GEL Work Order: 707431

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 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-ARGWA-19	Project:	GPCC01924
Sample ID:	707431001	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 09:26		
Receive Date:	05-FEB-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		5.84	0.0670	0.200	mg/L		1	CWW	02/07/25	0338	2746012	1
Fluoride	J	0.0704	0.0330	0.100	mg/L		1					
Sulfate		8.00	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	02/10/25	1143	2746474	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	PRB	02/16/25	1955	2745607	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0311	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		8.77	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	J	0.00397	0.00300	0.0100	mg/L	1.00	1					
Magnesium		3.40	0.0100	0.0300	mg/L	1.00	1					
Manganese	U	ND	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	J	0.000408	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.07	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.0373	0.00520	0.0150	mg/L	1.00	1	PRB	02/18/25	2035	2745607	4
Sodium		12.9	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		78.0	2.38	10.0	mg/L			RR4	02/11/25	1444	2748244	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID: ARK-ARGWA-19 Project: GPCC01924
Sample ID: 707431001 Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		36.6	0.725	2.00	mg/L			JW2	02/06/25	0935	2745881	6
Bicarbonate alkalinity (CaCO3)		36.6	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 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746473
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745606

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: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-ARGWA-20	Project:	GPCC01924
Sample ID:	707431002	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 12:40		
Receive Date:	05-FEB-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		7.74	0.0670	0.200	mg/L		1	CWW	02/07/25	0514	2746012	1
Fluoride	J	0.0490	0.0330	0.100	mg/L		1					
Sulfate		16.3	0.133	0.400	mg/L		1					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/10/25	1145	2746474	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum		0.746	0.0193	0.0500	mg/L	1.00	1	PRB	02/16/25	2015	2745607	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0926	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000235	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00667	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000334	0.000300	0.00100	mg/L	1.00	1					
Iron		0.823	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		5.66	0.0100	0.0300	mg/L	1.00	1					
Manganese		0.0125	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		1.57	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.0827	0.00520	0.0150	mg/L	1.00	1	PRB	02/18/25	2056	2745607	4
Calcium		11.4	0.0800	0.200	mg/L	1.00	1					
Sodium		12.8	0.0800	0.250	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		104	2.38	10.0	mg/L			RR4	02/11/25	1444	2748244	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID: ARK-ARGWA-20 Project: GPCC01924
Sample ID: 707431002 Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		43.6	0.725	2.00	mg/L			JW2	02/06/25	0936	2745881	6
Bicarbonate alkalinity (CaCO3)		43.6	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 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746473
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745606

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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Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
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Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-ARGWC-21	Project:	GPCC01924
Sample ID:	707431003	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 17:40		
Receive Date:	05-FEB-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		216	13.3	40.0	mg/L		100	CWW	02/06/25	1558	2746012	1
Chloride		3.29	0.0670	0.200	mg/L		1	CWW	02/07/25	0546	2746012	2
Fluoride		0.131	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	02/10/25	1153	2746474	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum	J	0.0257	0.0193	0.0500	mg/L	1.00	1	PRB	02/16/25	2018	2745607	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0492	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	J	0.000632	0.000300	0.00100	mg/L	1.00	1					
Iron		0.803	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0123	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.97	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		39.7	0.0100	0.0300	mg/L	1.00	1	PRB	02/18/25	2059	2745607	5
Sodium		22.1	0.0800	0.250	mg/L	1.00	1					
Boron		1.31	0.0520	0.150	mg/L	1.00	10	PRB	02/18/25	2159	2745607	6
Calcium		85.1	0.800	2.00	mg/L	1.00	10					
Manganese		0.366	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		534	2.38	10.0	mg/L			RR4	02/11/25	1444	2748244	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID: ARK-ARGWC-21 Project: GPCC01924
Sample ID: 707431003 Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		158	0.725	2.00	mg/L			JW2	02/06/25	0938	2745881	8
Bicarbonate alkalinity (CaCO3)		158	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	TB2	02/06/25	1505	2745606
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746473

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: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-ARGWC-22	Project:	GPCC01924
Sample ID:	707431004	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 15:50		
Receive Date:	05-FEB-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		656	13.3	40.0	mg/L		100	CWW	02/06/25	1630	2746012	1
Chloride		6.87	0.268	0.800	mg/L		4	CWW	02/07/25	0618	2746012	2
Fluoride	J	0.280	0.132	0.400	mg/L		4					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.0000800	0.0000670	0.000200	mg/L	1.00	1	JP2	02/10/25	1248	2746474	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	PRB	02/16/25	2020	2745607	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0282	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		0.00230	0.000300	0.00100	mg/L	1.00	1					
Iron		4.57	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0212	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000397	0.000200	0.00100	mg/L	1.00	1					
Potassium		4.47	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		25.8	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		3.10	0.130	0.375	mg/L	1.00	25	PRB	02/18/25	2202	2745607	5
Calcium		187	2.00	5.00	mg/L	1.00	25					
Magnesium		78.8	0.250	0.750	mg/L	1.00	25					
Manganese		16.1	0.0250	0.125	mg/L	1.00	25					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1140	4.76	20.0	mg/L			RR4	02/11/25	1444	2748244	6
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-ARGWC-22	Project:	GPCC01924
Sample ID:	707431004	Client ID:	GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		136	0.725	2.00	mg/L			JW2	02/06/25	0940	2745881	7
Bicarbonate alkalinity (CaCO3)		136	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	TB2	02/06/25	1505	2745606
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746473

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
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 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-ARGWC-23	Project:	GPCC01924
Sample ID:	707431005	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 11:20		
Receive Date:	05-FEB-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		77.6	13.3	40.0	mg/L		100	CWW	02/06/25	1702	2746012	1
Chloride		3.55	0.0670	0.200	mg/L		1	CWW	02/07/25	0753	2746012	2
Fluoride		0.286	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	02/10/25	1156	2746474	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	PRB	02/16/25	2023	2745607	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	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	J	0.000489	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		0.0428	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.0954	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.0548	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.19	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		13.2	0.0100	0.0300	mg/L	1.00	1	PRB	02/18/25	2105	2745607	5
Sodium		15.5	0.0800	0.250	mg/L	1.00	1					
Barium		0.118	0.00335	0.0200	mg/L	1.00	5	PRB	02/18/25	2205	2745607	6
Boron		0.485	0.0260	0.0750	mg/L	1.00	5					
Calcium		75.2	0.400	1.00	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		320	2.38	10.0	mg/L			RR4	02/11/25	1444	2748244	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID: ARK-ARGWC-23 Project: GPCC01924
Sample ID: 707431005 Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		176	0.725	2.00	mg/L			JW2	02/06/25	0942	2745881	8
Bicarbonate alkalinity (CaCO3)		176	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	TB2	02/06/25	1505	2745606
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746473

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: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-ARAMW-1	Project:	GPCC01924
Sample ID:	707431006	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 13:55		
Receive Date:	05-FEB-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		204	13.3	40.0	mg/L		100	CWW	02/06/25	1733	2746012	1
Chloride		3.33	0.0670	0.200	mg/L		1	CWW	02/07/25	0825	2746012	2
Fluoride		0.157	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	02/10/25	1158	2746474	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	PRB	02/16/25	2026	2745607	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0399	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	0.0699	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00952	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.0127	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.33	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		37.1	0.0100	0.0300	mg/L	1.00	1	PRB	02/18/25	2108	2745607	5
Sodium		20.6	0.0800	0.250	mg/L	1.00	1					
Boron		1.52	0.0520	0.150	mg/L	1.00	10	PRB	02/18/25	2208	2745607	6
Calcium		82.7	0.800	2.00	mg/L	1.00	10					
Manganese		0.160	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		496	2.38	10.0	mg/L			RR4	02/11/25	1444	2748244	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID: ARK-ARAMW-1 Project: GPCC01924
Sample ID: 707431006 Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		174	0.725	2.00	mg/L			JW2	02/06/25	0943	2745881	8
Bicarbonate alkalinity (CaCO3)		174	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 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746473
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745606

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: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-ARAMW-2	Project:	GPCC01924
Sample ID:	707431007	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 16:10		
Receive Date:	05-FEB-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		249	13.3	40.0	mg/L		100	CWW	02/06/25	1909	2746012	1
Chloride		3.33	0.0670	0.200	mg/L		1	CWW	02/07/25	0857	2746012	2
Fluoride		0.130	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	02/10/25	1203	2746474	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	PRB	02/16/25	2029	2745607	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic		0.00689	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0681	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		0.00185	0.000300	0.00100	mg/L	1.00	1					
Iron		3.37	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0172	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000623	0.000200	0.00100	mg/L	1.00	1					
Potassium		7.12	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		38.4	0.0100	0.0300	mg/L	1.00	1	PRB	02/18/25	2111	2745607	5
Sodium		21.2	0.0800	0.250	mg/L	1.00	1					
Boron		1.44	0.0520	0.150	mg/L	1.00	10	PRB	02/18/25	2211	2745607	6
Calcium		93.4	0.800	2.00	mg/L	1.00	10					
Manganese		0.710	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		566	2.38	10.0	mg/L			RR4	02/11/25	1444	2748244	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID: ARK-ARAMW-2 Project: GPCC01924
Sample ID: 707431007 Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		169	0.725	2.00	mg/L			JW2	02/06/25	0945	2745881	8
Bicarbonate alkalinity (CaCO3)		169	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 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746473
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745606

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: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-ARAMW-7	Project:	GPCC01924
Sample ID:	707431008	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 18:35		
Receive Date:	05-FEB-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		1040	13.3	40.0	mg/L		100	CWW	02/06/25	1941	2746012	1
Chloride		5.33	0.335	1.00	mg/L		5	CWW	02/07/25	0929	2746012	2
Fluoride	U	ND	0.165	0.500	mg/L		5					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.000113	0.0000670	0.000200	mg/L	1.00	1	JP2	02/10/25	1205	2746474	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum		0.0538	0.0193	0.0500	mg/L	1.00	1	PRB	02/16/25	2032	2745607	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0432	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000325	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0788	0.000300	0.00100	mg/L	1.00	1					
Iron		4.89	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0636	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000321	0.000200	0.00100	mg/L	1.00	1					
Potassium		10.1	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		29.4	0.0800	0.250	mg/L	1.00	1	PRB	02/18/25	2114	2745607	5
Boron		2.77	0.130	0.375	mg/L	1.00	25	PRB	02/18/25	2214	2745607	6
Calcium		311	2.00	5.00	mg/L	1.00	25					
Magnesium		83.2	0.250	0.750	mg/L	1.00	25					
Manganese		16.4	0.0250	0.125	mg/L	1.00	25					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1670	4.76	20.0	mg/L			RR4	02/11/25	1444	2748244	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID: ARK-ARAMW-7 Project: GPCC01924
Sample ID: 707431008 Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		60.1	0.725	2.00	mg/L			JW2	02/06/25	0947	2745881	8
Bicarbonate alkalinity (CaCO3)		60.1	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 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746473
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745606

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: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-ARAMW-8	Project:	GPCC01924
Sample ID:	707431009	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 14:20		
Receive Date:	05-FEB-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		109	13.3	40.0	mg/L		100	CWW	02/06/25	2013	2746012	1
Chloride		4.32	0.134	0.400	mg/L		2	CWW	02/07/25	1000	2746012	2
Fluoride		0.230	0.0660	0.200	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	JP2	02/10/25	1206	2746474	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum		0.0685	0.0193	0.0500	mg/L	1.00	1	PRB	02/16/25	2035	2745607	4
Antimony	J	0.00115	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.115	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		0.00379	0.000300	0.00100	mg/L	1.00	1					
Iron		0.767	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00667	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.189	0.000200	0.00100	mg/L	1.00	1					
Potassium		7.02	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		31.5	0.0100	0.0300	mg/L	1.00	1	PRB	02/18/25	2116	2745607	5
Sodium		18.9	0.0800	0.250	mg/L	1.00	1					
Boron		0.924	0.0520	0.150	mg/L	1.00	10	PRB	02/18/25	2222	2745607	6
Calcium		88.1	0.800	2.00	mg/L	1.00	10					
Manganese		0.267	0.0100	0.0500	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		405	2.38	10.0	mg/L			RR4	02/11/25	1444	2748244	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID: ARK-ARAMW-8 Project: GPCC01924
Sample ID: 707431009 Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		235	0.725	2.00	mg/L			JW2	02/06/25	0949	2745881	8
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	TB2	02/06/25	1505	2745606
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746473

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: May 14, 2025

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-ARAMW-9	Project:	GPCC01924
Sample ID:	707431010	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 17:15		
Receive Date:	05-FEB-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		36.0	6.70	20.0	mg/L		100	CWW	02/06/25	2045	2746012	1
Sulfate		418	13.3	40.0	mg/L		100					
Fluoride		0.956	0.0660	0.200	mg/L		2	CWW	02/07/25	1032	2746012	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	02/10/25	1208	2746474	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum		0.0879	0.0193	0.0500	mg/L	1.00	1	PRB	02/16/25	2043	2745607	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.00991	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		0.560	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00951	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.151	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.00267	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.47	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.131	0.00520	0.0150	mg/L	1.00	1	PRB	02/18/25	2119	2745607	5
Magnesium		10.9	0.0100	0.0300	mg/L	1.00	1					
Calcium		161	0.800	2.00	mg/L	1.00	10	PRB	02/18/25	2122	2745607	6
Sodium		73.1	0.800	2.50	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		758	4.76	20.0	mg/L			RR4	02/11/25	1444	2748244	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID: ARK-ARAMW-9 Project: GPCC01924
Sample ID: 707431010 Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		91.2	0.725	2.00	mg/L			JW2	02/06/25	0950	2745881	8
Bicarbonate alkalinity (CaCO3)		91.2	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	TB2	02/06/25	1505	2745606
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746473

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: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-ARAMW-10	Project:	GPCC01924
Sample ID:	707431011	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 13:30		
Receive Date:	05-FEB-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		1100	13.3	40.0	mg/L		100	CWW	02/06/25	2116	2746012	1
Chloride		6.77	0.134	0.400	mg/L		2	CWW	02/07/25	1104	2746012	2
Fluoride		0.330	0.0660	0.200	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	JP2	02/10/25	1209	2746474	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum	J	0.0218	0.0193	0.0500	mg/L	1.00	1	PRB	02/16/25	2046	2745607	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0499	0.000670	0.00400	mg/L	1.00	1					
Beryllium	J	0.000231	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0150	0.000300	0.00100	mg/L	1.00	1					
Iron		0.693	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0568	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000925	0.000200	0.00100	mg/L	1.00	1					
Potassium		7.39	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		38.6	0.0800	0.250	mg/L	1.00	1	PRB	02/18/25	2131	2745607	5
Boron		2.76	0.130	0.375	mg/L	1.00	25	PRB	02/18/25	2228	2745607	6
Calcium		363	2.00	5.00	mg/L	1.00	25					
Magnesium		74.5	0.250	0.750	mg/L	1.00	25					
Manganese		20.5	0.0250	0.125	mg/L	1.00	25					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1760	4.76	20.0	mg/L			RR4	02/11/25	1444	2748244	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID: ARK-ARAMW-10 Project: GPCC01924
Sample ID: 707431011 Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		104	0.725	2.00	mg/L			JW2	02/06/25	0952	2745881	8
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 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746473
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745606

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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Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-ARAMW-11	Project:	GPCC01924
Sample ID:	707431012	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	04-FEB-25 15:20		
Receive Date:	05-FEB-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		1010	13.3	40.0	mg/L		100	CWW	02/06/25	2252	2746012	1
Chloride		5.39	0.134	0.400	mg/L		2	CWW	02/07/25	1537	2746012	2
Fluoride	J	0.0848	0.0660	0.200	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	JP2	02/10/25	1211	2746474	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum		0.131	0.0193	0.0500	mg/L	1.00	1	PRB	02/16/25	2049	2745607	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0241	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000508	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0259	0.000300	0.00100	mg/L	1.00	1					
Iron		0.322	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0404	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000403	0.000200	0.00100	mg/L	1.00	1					
Potassium		6.59	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Sodium		29.7	0.0800	0.250	mg/L	1.00	1	PRB	02/18/25	2134	2745607	5
Boron		2.58	0.130	0.375	mg/L	1.00	25	PRB	02/18/25	2231	2745607	6
Calcium		302	2.00	5.00	mg/L	1.00	25					
Magnesium		84.5	0.250	0.750	mg/L	1.00	25					
Manganese		15.2	0.0250	0.125	mg/L	1.00	25					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1560	4.76	20.0	mg/L			RR4	02/11/25	1444	2748244	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID: ARK-ARAMW-11 Project: GPCC01924
Sample ID: 707431012 Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		45.0	0.725	2.00	mg/L			JW2	02/06/25	0953	2745881	8
Bicarbonate alkalinity (CaCO3)		45.0	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 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746473
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745606

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: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-AP2-EB-03	Project:	GPCC01924
Sample ID:	707431013	Client ID:	GPCC003
Matrix:	WQ		
Collect Date:	04-FEB-25 16:15		
Receive Date:	05-FEB-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	02/06/25	2324	2746012	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	02/10/25	1213	2746474	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	PRB	02/16/25	2052	2745607	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
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					
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	J	0.00207	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					
Silver	U	ND	0.000300	0.00100	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					
Boron		0.165	0.00520	0.0150	mg/L	1.00	1	PRB	02/18/25	2137	2745607	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			RR4	02/11/25	1444	2748244	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-AP2-EB-03	Project:	GPCC01924
Sample ID:	707431013	Client ID:	GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/06/25	0954	2745881	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 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746473
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745606

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: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-AP2-EB-04	Project:	GPCC01924
Sample ID:	707431014	Client ID:	GPCC003
Matrix:	WQ		
Collect Date:	04-FEB-25 15:20		
Receive Date:	05-FEB-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	02/06/25	2355	2746012	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	02/10/25	1214	2746474	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	PRB	02/16/25	2055	2745607	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
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					
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					
Silver	U	ND	0.000300	0.00100	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					
Boron		0.0565	0.00520	0.0150	mg/L	1.00	1	PRB	02/18/25	2139	2745607	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			RR4	02/11/25	1444	2748244	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID: ARK-AP2-EB-04 Project: GPCC01924
Sample ID: 707431014 Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/06/25	0955	2745881	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	TB2	02/06/25	1505	2745606
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746473

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: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-AP2-FD-03	Project:	GPCC01924
Sample ID:	707431015	Client ID:	GPCC003
Matrix:	WQ		
Collect Date:	04-FEB-25 12:00		
Receive Date:	05-FEB-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		78.2	13.3	40.0	mg/L		100	CWW	02/07/25	0131	2746012	1
Chloride		3.54	0.0670	0.200	mg/L		1	CWW	02/07/25	1609	2746012	2
Fluoride		0.275	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	02/10/25	1216	2746474	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	PRB	02/16/25	2058	2745607	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.111	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000514	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		0.0421	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.0994	0.00100	0.00500	mg/L	1.00	1					
Molybdenum		0.0535	0.000200	0.00100	mg/L	1.00	1					
Potassium		2.18	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		13.6	0.0100	0.0300	mg/L	1.00	1	PRB	02/18/25	2142	2745607	5
Sodium		15.8	0.0800	0.250	mg/L	1.00	1					
Boron		0.478	0.0260	0.0750	mg/L	1.00	5	PRB	02/18/25	2234	2745607	6
Calcium		73.7	0.400	1.00	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		311	2.38	10.0	mg/L			RR4	02/11/25	1444	2748244	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-AP2-FD-03	Project:	GPCC01924
Sample ID:	707431015	Client ID:	GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		176	0.725	2.00	mg/L			JW2	02/06/25	0955	2745881	8
Bicarbonate alkalinity (CaCO3)		176	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	TB2	02/06/25	1505	2745606
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746473

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: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-AP2-FD-04	Project:	GPCC01924
Sample ID:	707431016	Client ID:	GPCC003
Matrix:	WQ		
Collect Date:	04-FEB-25 12:00		
Receive Date:	05-FEB-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		226	13.3	40.0	mg/L		100	CWW	02/07/25	0203	2746012	1
Chloride		3.30	0.0670	0.200	mg/L		1	CWW	02/07/25	1641	2746012	2
Fluoride		0.127	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	02/10/25	1218	2746474	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	PRB	02/16/25	2101	2745607	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0473	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	J	0.000665	0.000300	0.00100	mg/L	1.00	1					
Iron		0.745	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0118	0.00300	0.0100	mg/L	1.00	1					
Manganese		0.311	0.00100	0.00500	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Potassium		5.73	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Magnesium		36.9	0.0100	0.0300	mg/L	1.00	1	PRB	02/18/25	2145	2745607	5
Sodium		20.5	0.0800	0.250	mg/L	1.00	1					
Boron		1.23	0.0520	0.150	mg/L	1.00	10	PRB	02/18/25	2237	2745607	6
Calcium		80.3	0.800	2.00	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		506	2.38	10.0	mg/L			RR4	02/11/25	1444	2748244	7
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID: ARK-AP2-FD-04 Project: GPCC01924
Sample ID: 707431016 Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		160	0.725	2.00	mg/L			JW2	02/06/25	0956	2745881	8
Bicarbonate alkalinity (CaCO3)		160	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	TB2	02/06/25	1505	2745606
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746473

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: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-AP2-FB-03	Project:	GPCC01924
Sample ID:	707431017	Client ID:	GPCC003
Matrix:	WQ		
Collect Date:	04-FEB-25 17:40		
Receive Date:	05-FEB-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	02/07/25	0235	2746012	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	02/10/25	1250	2746474	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	PRB	02/16/25	2104	2745607	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
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					
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					
Silver	U	ND	0.000300	0.00100	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					
Boron		0.0774	0.00520	0.0150	mg/L	1.00	1	PRB	02/18/25	2148	2745607	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	4.00	2.38	10.0	mg/L			RR4	02/11/25	1444	2748244	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID: ARK-AP2-FB-03 Project: GPCC01924
Sample ID: 707431017 Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/06/25	0958	2745881	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	TB2	02/06/25	1505	2745606
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746473

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: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID:	ARK-AP2-FB-04	Project:	GPCC01924
Sample ID:	707431018	Client ID:	GPCC003
Matrix:	WQ		
Collect Date:	04-FEB-25 17:15		
Receive Date:	05-FEB-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	02/07/25	0307	2746012	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	02/10/25	1224	2746474	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum	U	ND	0.0193	0.0500	mg/L	1.00	1	PRB	02/16/25	2106	2745607	3
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
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					
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					
Silver	U	ND	0.000300	0.00100	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					
Boron		0.0321	0.00520	0.0150	mg/L	1.00	1	PRB	02/18/25	2151	2745607	4
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	5.00	2.38	10.0	mg/L			RR4	02/11/25	1444	2748244	5
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Certificate of Analysis

Report Date: May 14, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater CompliancePlant Arkwright Ash Pond 2-Total Metals*

Client Sample ID: ARK-AP2-FB-04 Project: GPCC01924
Sample ID: 707431018 Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3	U	ND	0.725	2.00	mg/L			JW2	02/06/25	0958	2745881	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	TB2	02/06/25	1505	2745606
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746473

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

QC Summary

Report Date: May 14, 2025

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

Contact: **Joju Abraham**

Workorder: **707431**

Parmname	NOM		Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Ion Chromatography												
Batch 2746012												
QC1205997729 707431001 DUP												
Chloride			5.84		5.81	mg/L	0.661			(0%-20%)	CWW	02/07/25 04:10
Fluoride		J	0.0704	J	0.0840	mg/L	17.6	^		(+/-0.100)		
Sulfate			8.00		8.02	mg/L	0.179			(0%-20%)		
QC1205997731 707431011 DUP												
Chloride			6.77		6.76	mg/L	0.142			(0%-20%)		02/07/25 11:36
Fluoride			0.330		0.314	mg/L	4.9	^		(+/-0.200)		
Sulfate			1100		1100	mg/L	0.721			(0%-20%)		02/06/25 21:48
QC1205997728 LCS												
Chloride	5.00				4.88	mg/L			97.5	(90%-110%)		02/06/25 13:19
Fluoride	2.50				2.49	mg/L			99.5	(90%-110%)		
Sulfate	10.0				9.90	mg/L			99	(90%-110%)		
QC1205997727 MB												
Chloride				U	ND	mg/L						02/06/25 12:47
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						

QC Summary

Workorder: **707431**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Ion Chromatography											
Batch 2746012											
QC1205997730 707431001 PS											
Chloride	5.00		5.84		11.1	mg/L		106	(90%-110%)	CWW	02/07/25 04:42
Fluoride	2.50	J	0.0704		2.62	mg/L		102	(90%-110%)		
Sulfate	10.0		8.00		18.2	mg/L		102	(90%-110%)		
QC1205997732 707431011 PS											
Chloride	5.00		3.38		8.42	mg/L		101	(90%-110%)		02/07/25 12:08
Fluoride	2.50		0.165		2.66	mg/L		99.7	(90%-110%)		
Sulfate	10.0		11.0		21.2	mg/L		102	(90%-110%)		02/06/25 22:20
Metals Analysis - ICPMS											
Batch 2745607											
QC1205996876 LCS											
Aluminum	2.00				2.03	mg/L		102	(80%-120%)	PRB	02/16/25 19:52
Antimony	0.0500				0.0485	mg/L		97	(80%-120%)		
Arsenic	0.0500				0.0487	mg/L		97.3	(80%-120%)		
Barium	0.0500				0.0509	mg/L		102	(80%-120%)		
Beryllium	0.0500				0.0534	mg/L		107	(80%-120%)		
Boron	0.100				0.118	mg/L		118	(80%-120%)		02/18/25 20:33
Cadmium	0.0500				0.0506	mg/L		101	(80%-120%)		02/16/25 19:52

QC Summary

Workorder: **707431**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2745607										
Calcium	2.00			2.11	mg/L		106	(80%-120%)	PRB	02/16/25 19:52
Chromium	0.0500			0.0489	mg/L		97.8	(80%-120%)		
Cobalt	0.0500			0.0478	mg/L		95.6	(80%-120%)		
Iron	2.00			1.95	mg/L		97.3	(80%-120%)		
Lead	0.0500			0.0508	mg/L		102	(80%-120%)		
Lithium	0.0500			0.0518	mg/L		104	(80%-120%)		
Magnesium	2.00			1.99	mg/L		99.6	(80%-120%)		
Manganese	0.0500			0.0482	mg/L		96.3	(80%-120%)		
Molybdenum	0.0500			0.0511	mg/L		102	(80%-120%)		
Potassium	2.00			2.01	mg/L		100	(80%-120%)		
Selenium	0.0500			0.0495	mg/L		98.9	(80%-120%)		
Silver	0.0500			0.0513	mg/L		103	(80%-120%)		
Sodium	2.00			2.28	mg/L		114	(80%-120%)		02/18/25 20:33
Thallium	0.0500			0.0472	mg/L		94.4	(80%-120%)		02/16/25 19:52

QC Summary

Workorder: **707431**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2745607										
QC1205996875 MB										
Aluminum			U	ND	mg/L				PRB	02/16/25 19:49
Antimony			U	ND	mg/L					
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					
Boron			U	ND	mg/L					02/18/25 20:30
Cadmium			U	ND	mg/L					02/16/25 19:49
Calcium			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					
Magnesium			U	ND	mg/L					

QC Summary

Workorder: **707431**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2745607											
Manganese				U	ND	mg/L				PRB	02/16/25 19:49
Molybdenum				U	ND	mg/L					
Potassium				U	ND	mg/L					
Selenium				U	ND	mg/L					
Silver				U	ND	mg/L					
Sodium				U	ND	mg/L					02/18/25 20:30
Thallium				U	ND	mg/L					02/16/25 19:49
QC1205996877 707431001 MS											
Aluminum	2.00	U	ND		2.01	mg/L		100	(75%-125%)		02/16/25 19:57
Antimony	0.0500	U	ND		0.0491	mg/L		98.2	(75%-125%)		
Arsenic	0.0500	U	ND		0.0473	mg/L		93.2	(75%-125%)		
Barium	0.0500		0.0311		0.0806	mg/L		99	(75%-125%)		
Beryllium	0.0500	U	ND		0.0543	mg/L		109	(75%-125%)		
Boron	0.100		0.0373		0.145	mg/L		108	(75%-125%)		02/18/25 20:38
Cadmium	0.0500	U	ND		0.0503	mg/L		101	(75%-125%)		02/16/25 19:57

QC Summary

Workorder: **707431**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2745607											
Calcium	2.00		8.77		10.7	mg/L		N/A	(75%-125%)	PRB	02/16/25 19:57
Chromium	0.0500	U	ND		0.0485	mg/L		94.8	(75%-125%)		
Cobalt	0.0500	U	ND		0.0469	mg/L		93.6	(75%-125%)		
Iron	2.00	U	ND		1.91	mg/L		95	(75%-125%)		
Lead	0.0500	U	ND		0.0496	mg/L		99.1	(75%-125%)		
Lithium	0.0500	J	0.00397		0.0559	mg/L		104	(75%-125%)		
Magnesium	2.00		3.40		5.34	mg/L		97	(75%-125%)		
Manganese	0.0500	U	ND		0.0482	mg/L		95.4	(75%-125%)		
Molybdenum	0.0500	J	0.000408		0.0519	mg/L		103	(75%-125%)		
Potassium	2.00		2.07		4.04	mg/L		98.4	(75%-125%)		
Selenium	0.0500	U	ND		0.0477	mg/L		95	(75%-125%)		
Silver	0.0500	U	ND		0.0513	mg/L		102	(75%-125%)		
Sodium	2.00		12.9		12.8	mg/L		N/A	(75%-125%)		02/18/25 20:38
Thallium	0.0500	U	ND		0.0477	mg/L		95.4	(75%-125%)		02/16/25 19:57

QC Summary

Workorder: **707431**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2745607											
QC1205996878 707431001 MSD											
Aluminum	2.00	U	ND		2.03	mg/L	1.03	101	(0%-20%)	PRB	02/16/25 20:00
Antimony	0.0500	U	ND		0.0489	mg/L	0.347	97.8	(0%-20%)		
Arsenic	0.0500	U	ND		0.0486	mg/L	2.66	95.8	(0%-20%)		
Barium	0.0500		0.0311		0.0813	mg/L	0.823	100	(0%-20%)		
Beryllium	0.0500	U	ND		0.0549	mg/L	1.06	110	(0%-20%)		
Boron	0.100		0.0373		0.152	mg/L	4.25	114	(0%-20%)		02/18/25 20:41
Cadmium	0.0500	U	ND		0.0505	mg/L	0.447	101	(0%-20%)		02/16/25 20:00
Calcium	2.00		8.77		10.8	mg/L	1.16	N/A	(0%-20%)		
Chromium	0.0500	U	ND		0.0488	mg/L	0.508	95.3	(0%-20%)		
Cobalt	0.0500	U	ND		0.0473	mg/L	1.06	94.6	(0%-20%)		
Iron	2.00	U	ND		1.94	mg/L	1.51	96.5	(0%-20%)		
Lead	0.0500	U	ND		0.0506	mg/L	2.01	101	(0%-20%)		
Lithium	0.0500	J	0.00397		0.0565	mg/L	1.1	105	(0%-20%)		
Magnesium	2.00		3.40		5.37	mg/L	0.554	98.5	(0%-20%)		

QC Summary

Workorder: **707431**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2745607											
Manganese	0.0500	U	ND		0.0485	mg/L	0.674	96.1	(0%-20%)	PRB	02/16/25 20:00
Molybdenum	0.0500	J	0.000408		0.0517	mg/L	0.407	103	(0%-20%)		
Potassium	2.00		2.07		4.06	mg/L	0.57	99.6	(0%-20%)		
Selenium	0.0500	U	ND		0.0482	mg/L	1.08	96	(0%-20%)		
Silver	0.0500	U	ND		0.0517	mg/L	0.798	103	(0%-20%)		
Sodium	2.00		12.9		13.2	mg/L	2.87	N/A	(0%-20%)		02/18/25 20:41
Thallium	0.0500	U	ND		0.0482	mg/L	0.973	96.3	(0%-20%)		02/16/25 20:00
QC1205996879 707431001 SDILT											
Aluminum		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/16/25 20:06
Antimony		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Arsenic		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium			31.1		6.37	ug/L	2.34		(0%-20%)		
Beryllium		U	ND	U	ND	ug/L	N/A		(0%-20%)		
Boron			37.3	J	7.17	ug/L	3.99		(0%-20%)		02/18/25 20:48
Cadmium		U	ND	U	ND	ug/L	N/A		(0%-20%)		02/16/25 20:06

QC Summary

Workorder: **707431**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2745607										
Calcium		8770		1800	ug/L	2.63		(0%-20%)	PRB	02/16/25 20:06
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
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%)		
Lithium	J	3.97	U	ND	ug/L	N/A		(0%-20%)		
Magnesium		3400		698	ug/L	2.55		(0%-20%)		
Manganese	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Molybdenum	J	0.408	U	ND	ug/L	N/A		(0%-20%)		
Potassium		2070		426	ug/L	2.88		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Silver	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		12900		2480	ug/L	3.72		(0%-20%)		02/18/25 20:48
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/16/25 20:06

QC Summary

Workorder: 707431

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury										
Batch 2746474										
QC1205998412 707431002 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/10/25 11:46
QC1205998411 LCS										
Mercury	0.00200			0.00213	mg/L		106	(80%-120%)		02/10/25 11:37
QC1205998410 MB										
Mercury			U	ND	mg/L					02/10/25 12:46
QC1205998413 707431002 MS										
Mercury	0.00200 U	ND		0.00209	mg/L		105	(75%-125%)		02/10/25 11:48
QC1205998414 707431002 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		02/10/25 11:50
Solids Analysis										
Batch 2748244										
QC1206002064 707431010 DUP										
Total Dissolved Solids		758		794	mg/L	4.64		(0%-5%)	RR4	02/11/25 14:44
QC1206002063 LCS										
Total Dissolved Solids	300			295	mg/L		98.3	(95%-105%)		02/11/25 14:44
QC1206002062 MB										
Total Dissolved Solids			J	4.00	mg/L					02/11/25 14:44
Titration and Ion Analysis										
Batch 2745881										
QC1205997488 707420001 DUP										
Alkalinity, Total as CaCO3		17.6		17.4	mg/L	1.14		(0%-20%)	JW2	02/06/25 09:32
Bicarbonate alkalinity (CaCO3)		17.6		17.4	mg/L	1.14		(0%-20%)		

QC Summary

Workorder: **707431**

Parmname	NOM	Sample	Qual	QC	Units	RPD%		REC%	Range	Anlst	Date Time
Titration and Ion Analysis											
Batch 2745881											
Carbonate alkalinity (CaCO3)		0.000	U	ND	mg/L	0	^		(+/-2.00)	JW2	02/06/25 09:32
QC1205997487 LCS											
Alkalinity, Total as CaCO3	50.0			53.1	mg/L			106	(90%-110%)		02/06/25 09:26
QC1205997490 LCS											
Alkalinity, Total as CaCO3	15.0			15.6	mg/L			104	(90%-110%)		02/06/25 09:28
QC1205997491 LCSD											
Alkalinity, Total as CaCO3	50.0			52.9	mg/L	0.377		106	(0%-20%)		02/06/25 09:27
QC1205997492 LCSD											
Alkalinity, Total as CaCO3	15.0			15.5	mg/L	0.643		103	(0%-20%)		02/06/25 09:29
QC1205997489 707420001 MS											
Alkalinity, Total as CaCO3	50.0	17.6		72.2	mg/L			109	(80%-120%)		02/06/25 09:33

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.

QC Summary

Workorder: **707431**

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

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# 36
Analytical Batch: 2745607

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2745606

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

GEL Sample ID#	Client Sample Identification
707431001	ARK-ARGWA-19
707431002	ARK-ARGWA-20
707431003	ARK-ARGWC-21
707431004	ARK-ARGWC-22
707431005	ARK-ARGWC-23
707431006	ARK-ARAMW-1
707431007	ARK-ARAMW-2
707431008	ARK-ARAMW-7
707431009	ARK-ARAMW-8
707431010	ARK-ARAMW-9
707431011	ARK-ARAMW-10
707431012	ARK-ARAMW-11
707431013	ARK-AP2-EB-03
707431014	ARK-AP2-EB-04
707431015	ARK-AP2-FD-03
707431016	ARK-AP2-FD-04
707431017	ARK-AP2-FB-03
707431018	ARK-AP2-FB-04
1205996875	Method Blank (MB)**ICP-MS**
1205996876	Laboratory Control Sample (LCS)
1205996879	707431001(ARK-ARGWA-19L) Serial Dilution (SD)
1205996877	707431001(ARK-ARGWA-19S) Matrix Spike (MS)
1205996878	707431001(ARK-ARGWA-19SD) 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 707431003 (ARK-ARGWC-21), 707431004 (ARK-ARGWC-22), 707431005 (ARK-ARGWC-23), 707431006 (ARK-ARAMW-1), 707431007 (ARK-ARAMW-2), 707431008 (ARK-ARAMW-7), 707431009 (ARK-ARAMW-8), 707431010 (ARK-ARAMW-9), 707431011 (ARK-ARAMW-10), 707431012 (ARK-ARAMW-11), 707431015 (ARK-AP2-FD-03) and 707431016 (ARK-AP2-FD-04) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	707431									
	003	**004**	**005**	**006**	**007**	**008**	**009**	**010**	**011**	**012**
Barium	1X	1X	5X	1X	1X	1X	1X	1X	1X	1X
Boron	10X	25X	5X	10X	10X	25X	10X	1X	25X	25X
Calcium	10X	25X	5X	10X	10X	25X	10X	10X	25X	25X
Magnesium	1X	25X	1X	1X	1X	25X	1X	1X	25X	25X
Manganese	10X	25X	1X	10X	10X	25X	10X	1X	25X	25X
Sodium	1X	1X	1X	1X	1X	1X	1X	10X	1X	1X

Analyte	707431	
	015	**016**
Boron	5X	10X
Calcium	5X	10X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 41
Analytical Batch: 2746474

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 41
Preparation Batch: 2746473

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

GEL Sample ID#	Client Sample Identification
707431001	ARK-ARGWA-19
707431002	ARK-ARGWA-20
707431003	ARK-ARGWC-21
707431004	ARK-ARGWC-22
707431005	ARK-ARGWC-23
707431006	ARK-ARAMW-1
707431007	ARK-ARAMW-2
707431008	ARK-ARAMW-7
707431009	ARK-ARAMW-8
707431010	ARK-ARAMW-9
707431011	ARK-ARAMW-10

707431012	ARK-ARAMW-11
707431013	ARK-AP2-EB-03
707431014	ARK-AP2-EB-04
707431015	ARK-AP2-FD-03
707431016	ARK-AP2-FD-04
707431017	ARK-AP2-FB-03
707431018	ARK-AP2-FB-04
1205998410	Method Blank (MB)**CVAA**
1205998411	Laboratory Control Sample (LCS)
1205998414	707431002(ARK-ARGWA-20L) Serial Dilution (SD)
1205998412	707431002(ARK-ARGWA-20D) Sample Duplicate (DUP)
1205998413	707431002(ARK-ARGWA-20S) 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: 2746012

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

GEL Sample ID#	Client Sample Identification
707431001	ARK-ARGWA-19
707431002	ARK-ARGWA-20
707431003	ARK-ARGWC-21
707431004	ARK-ARGWC-22
707431005	ARK-ARGWC-23
707431006	ARK-ARAMW-1
707431007	ARK-ARAMW-2
707431008	ARK-ARAMW-7
707431009	ARK-ARAMW-8
707431010	ARK-ARAMW-9
707431011	ARK-ARAMW-10
707431012	ARK-ARAMW-11
707431013	ARK-AP2-EB-03
707431014	ARK-AP2-EB-04
707431015	ARK-AP2-FD-03
707431016	ARK-AP2-FD-04
707431017	ARK-AP2-FB-03
707431018	ARK-AP2-FB-04
1205997727	Method Blank (MB)
1205997728	Laboratory Control Sample (LCS)
1205997729	707431001(ARK-ARGWA-19) Sample Duplicate (DUP)
1205997730	707431001(ARK-ARGWA-19) Post Spike (PS)
1205997731	707431011(ARK-ARAMW-10) Sample Duplicate (DUP)
1205997732	707431011(ARK-ARAMW-10) 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 1205997731 (ARK-ARAMW-10DUP), 1205997732 (ARK-ARAMW-10PS), 707431003 (ARK-ARGWC-21), 707431004 (ARK-ARGWC-22), 707431005 (ARK-ARGWC-23), 707431006 (ARK-ARAMW-1), 707431007 (ARK-ARAMW-2), 707431008 (ARK-ARAMW-7), 707431009 (ARK-ARAMW-8), 707431010 (ARK-ARAMW-9), 707431011 (ARK-ARAMW-10), 707431012 (ARK-ARAMW-11), 707431015 (ARK-AP2-FD-03) and 707431016 (ARK-AP2-FD-04) were diluted because target analyte concentrations exceeded the calibration range. Samples 1205997731 (ARK-ARAMW-10DUP), 1205997732 (ARK-ARAMW-10PS), 707431004 (ARK-ARGWC-22), 707431008 (ARK-ARAMW-7), 707431009 (ARK-ARAMW-8), 707431010 (ARK-ARAMW-9), 707431011 (ARK-ARAMW-10) and 707431012 (ARK-ARAMW-11) 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	707431									
	003	**004**	**005**	**006**	**007**	**008**	**009**	**010**	**011**	**012**
Chloride	1X	4X	1X	1X	1X	5X	2X	100X	2X	2X
Fluoride	1X	4X	1X	1X	1X	5X	2X	2X	2X	2X
Sulfate	100X	100X	100X	100X	100X	100X	100X	100X	100X	100X

Analyte	707431	
	015	**016**
Sulfate	100X	100X

Miscellaneous Information

Manual Integrations
Samples 1205997729 (ARK-ARGWA-19DUP), 1205997730 (ARK-ARGWA-19PS), 707431001 (ARK-ARGWA-19), 707431002 (ARK-ARGWA-20), 707431003 (ARK-ARGWC-21), 707431005 (ARK-ARGWC-23), 707431006 (ARK-ARAMW-1), 707431007 (ARK-ARAMW-2), 707431009 (ARK-ARAMW-8), 707431010 (ARK-ARAMW-9), 707431012 (ARK-ARAMW-11), 707431015 (ARK-AP2-FD-03) and 707431016 (ARK-AP2-FD-04) 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: 2748244

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

GEL Sample ID#	Client Sample Identification
707431001	ARK-ARGWA-19
707431002	ARK-ARGWA-20
707431003	ARK-ARGWC-21
707431004	ARK-ARGWC-22
707431005	ARK-ARGWC-23
707431006	ARK-ARAMW-1
707431007	ARK-ARAMW-2
707431008	ARK-ARAMW-7
707431009	ARK-ARAMW-8
707431010	ARK-ARAMW-9
707431011	ARK-ARAMW-10
707431012	ARK-ARAMW-11
707431013	ARK-AP2-EB-03
707431014	ARK-AP2-EB-04
707431015	ARK-AP2-FD-03
707431016	ARK-AP2-FD-04
707431017	ARK-AP2-FB-03
707431018	ARK-AP2-FB-04
1206002062	Method Blank (MB)
1206002063	Laboratory Control Sample (LCS)
1206002064	707431010(ARK-ARAMW-9) 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. 1206002064 (ARK-ARAMW-9DUP), 707431004 (ARK-ARGWC-22), 707431008 (ARK-ARAMW-7), 707431010 (ARK-ARAMW-9), 707431011 (ARK-ARAMW-10) and 707431012 (ARK-ARAMW-11).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2745881

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

GEL Sample ID#	Client Sample Identification
707431001	ARK-ARGWA-19
707431002	ARK-ARGWA-20
707431003	ARK-ARGWC-21
707431004	ARK-ARGWC-22
707431005	ARK-ARGWC-23
707431006	ARK-ARAMW-1
707431007	ARK-ARAMW-2

707431008	ARK-ARAMW-7
707431009	ARK-ARAMW-8
707431010	ARK-ARAMW-9
707431011	ARK-ARAMW-10
707431012	ARK-ARAMW-11
707431013	ARK-AP2-EB-03
707431014	ARK-AP2-EB-04
707431015	ARK-AP2-FD-03
707431016	ARK-AP2-FD-04
707431017	ARK-AP2-FB-03
707431018	ARK-AP2-FB-04
1205997487	Laboratory Control Sample (LCS)
1205997488	707420001(NonSDG) Sample Duplicate (DUP)
1205997489	707420001(NonSDG) Matrix Spike (MS)
1205997490	Laboratory Control Sample (LCS)
1205997491	Laboratory Control Sample Duplicate (LCSD)
1205997492	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. 707431001 (ARK-ARGWA-19), 707431002 (ARK-ARGWA-20), 707431003 (ARK-ARGWC-21), 707431004 (ARK-ARGWC-22), 707431005 (ARK-ARGWC-23), 707431006 (ARK-ARAMW-1), 707431007 (ARK-ARAMW-2), 707431008 (ARK-ARAMW-7), 707431009 (ARK-ARAMW-8), 707431010 (ARK-ARAMW-9), 707431011 (ARK-ARAMW-10), 707431012 (ARK-ARAMW-11), 707431013 (ARK-AP2-EB-03), 707431014 (ARK-AP2-EB-04), 707431015 (ARK-AP2-FD-03), 707431016 (ARK-AP2-FD-04), 707431017 (ARK-AP2-FB-03) and 707431018 (ARK-AP2-FB-04).

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.

Rev. 1

707431
707433

Page: 1 of 2
Project # 175569434
GEL Quote #:
COC Number (1): 1 of 2 Sample Cooler(s) 6
PO Number: GPC82177-0005

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

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Alaina Pinnick*

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

Client Name: Georgia Power — Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond 2 — Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Devon Abuan, Jacob Ashe, Jackson Bankston, Max Moore — Send Results To: jabraham@southernco.com EDD@stantec.com jennifer.kolbe@stantec.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				NI	NI	NI				<-- Preservative Type (6)
									*Metals (6020B)	**Metals (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	RAD 226-228 Cmbd	Mercury (7470B)	Fe2+/ Mn2+ (6020B) Field Filtered				Comments (task_code: ARK-CCR-ASSMT-2025S1)
ARK-ARGWA-19	02-04-25	0926	N	N	WG			8	X		X	X	X	X	X					
ARK-ARGWA-20	02-04-25	1240	N	N	WG			8	X		X	X	X	X	X					
ARK-ARGWC-21	02-04-25	1740	N	N	WG			8	X		X	X	X	X	X					
ARK-ARGWC-22	02-04-25	1550	N	N	WG			8	X		X	X	X	X	X					
ARK-ARGWC-23	02-04-25	1120	N	N	WG			8	X		X	X	X	X	X					
ARK-ARAMW-1	02-04-25	1355	N	N	WG			8	X		X	X	X	X	X					
ARK-ARAMW-2	02-04-25	1610	N	N	WG			8	X		X	X	X	X	X					
ARK-ARAMW-7	02-04-25	1835	N	N	WG			8	X		X	X	X	X	X					
ARK-ARAMW-8	02-04-25	1420	N	N	WG			8	X		X	X	X	X	X					
ARK-ARAMW-9	02-04-25	1715	N	N	WG			8	X		X	X	X	X	X					

*Metals: Ag, B, Ca, Al, K, Mg, Na, Fe, Mn, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl

**Metals: Ag, B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl

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

Fax Results: [ ] Yes [X] No

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

Additional Remarks: Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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)	Print Name	Date	Received by (signed)	Print Name	Date
1		Jacob Ashe	02/05/2025	1		2/5/25
2			2/5/25 1430			
3				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

2/6/2025

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.)

Page: 2 of 2
Project # 175569434
GEL Quote #:
COC Number (1): 1 of 2 Sample Cooler(s) 6
PO Number: GPC82177-0005

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

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Alaina Pinnick*

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

Client Name: Georgia Power Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond 2 Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Devon Abuan, Jacob Ashe, Jackson Bankston, Max Moore
Send Results To: jabraham@southernco.com EDD@stantec.com jennifer.kolbe@stantec.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 (6020B)	NI **Metals (6020B)	NI Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Fe2+/ Mn2+ (6020B) Field Filtered				<-- Preservative Type (6)	Comments (task_code: ARK-CCR-ASSMT-2025S1)
ARK-ARAMW-10	02-04-25	1330	N	N	WG			8	X		X	X	X	X	X						
ARK-ARAMW-11	02-04-25	1520	N	N	WG			8	X		X	X	X	X	X						*Metals: Ag, B, Ca, Al, K, Mg, Na, Fe, Mn, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
ARK-AP2-EB-03	02-04-25	1615	EB	N	WQ			6	X		X	X	X	X	X						
ARK-AP2-EB-04	02-04-25	1520	EB	N	WQ			6	X		X	X	X	X	X						
ARK-AP2-FD-03	02-04-25	NA	FD	N	WG WQ			6	X		X	X	X	X	X						
ARK-AP2-FD-04	02-04-25	NA	FD	N	WG WQ			6	X		X	X	X	X	X						**Metals: Ag, B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
ARK-AP2-FB-03	02-04-25	1740	FB	N	WQ			6	X		X	X	X	X	X						
ARK-AP2-FB-04	02-04-25	1715	FB	N	WQ			6	X		X	X	X	X	X						

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	02/05/2025			2/5/25
2			2/5/25 1430	2		
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 [X] No

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

Additional Remarks: Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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

2/7/2025

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 6 of 66 SDG 707431 Rev1

Page 1 of 2
Project # 175569434
GEL Quote #:
COC Number (1): 1 Sample Cooler(s) 6
PO Number: GPC82177-0005

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

Chain of Custody and Analytical Request

GEL Work Order Number: *GEL Project Manager: Alaina Pinnick*

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

707431
707433

Client Name: Georgia Power — Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond — Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Devon Abuan, Jacob Ashe, Jackson Barnston, Max Moore
Send Results To: jabraham@southernco.com EDD@stantec.com jennifer.kolbe@stantec.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				NI	NI	NI				<-- Preservative Type (6)
									*Metals (6020B)	**Metals (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev 2.1 1993)	RAD 226-228 Cmbd	Mercury (7470B)	Fe2+/ Mn2+ (6020B) Field Filtered				
ARK-ARGWA-19	02-04-25	0926	N	N	WG				X		X	X	X	X	X					
ARK-ARGWA-20	02-04-25	1240	N	N	WG				X		X	X	X	X	X					
ARK-ARGWC-21	02-04-25	1740	N	N	WG				X		X	X	X	X	X					
ARK-ARGWC-22	02-04-25	1550	N	N	WG				X		X	X	X	X	X					
ARK-ARGWC-23	02-04-25	1120	N	N	WG				X		X	X	X	X	X					
ARK-ARAMW-1	02-04-25	1355	N	N	WG				X		X	X	X	X	X					
ARK-ARAMW-2	02-04-25	1610	N	N	WG				X		X	X	X	X	X					
ARK-ARAMW-7	02-04-25	1835	N	N	WG				X		X	X	X	X	X					
ARK-ARAMW-8	02-04-25	1420	N	N	WG				X		X	X	X	X	X					
ARK-ARAMW-9	02-04-25	1715	N	N	WG				X		X	X	X	X	X					

Comments (task_code: ARK-CCR-ASSMT-2025S1)

*Metals: Ag, B, Ca, Al, K, Mg, Na, Fe, Mn, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl

**Metals: Ag, B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl

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

Fax Results: [ ] Yes [X] No

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

Additional Remarks: Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	02/05/2025	1		2/5/25
2			2/5/25 1430	2		2/5/25 1430
3				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.)

Page: 2 of 2
Project # 175569434
GEL Quote #:
COC Number (1): 1 Sample Cooler(s) 6
PO Number: GPC82177-0005

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

Chain of Custody and Analytical Request

GEL Work Order Number:

GEL Project Manager: Alaina Pinnick

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

Client Name: Georgia Power — Phone # (937-344-6533)

Project/Site Name: Plant Arkwright Ash Pond — Fax: N/A

Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308

Collected By: Devon Abuan, Jacob Ashe, Jackson Barkston, Max Moore

Send Results To: jabraham@southernco.com EDD@stantec.com jennifer.kolbe@stantec.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 (6020B)	NI **Metals (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	NI RAD 226-228 Cmbd	NI Mercury (7470B)	NI Fe2+/ Mn2+ (6020B) Field Filtered	<-- Preservative Type (6)	Comments (task_code: ARK-CCR-ASSMT-2025S1)
ARK-ARAMW-10	02-04-25	1330	N	N	WG				X		X	X	X	X	X			
ARK-ARAMW-11	02-04-25	1520	N	N	WG				X		X	X	X	X	X			*Metals: Ag, B, Ca, Al, K, Mg, Na, Fe, Mn, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
ARK-AP2-EB-03	02-04-25	1615	EB	N	WQ				X		X	X	X	X	X			
ARK-AP2-EB-04	02-04-25	1520	EB	N	WQ				X		X	X	X	X	X			
ARK-AP2-FD-03	02-04-25	NA	FD	N	WQ				X		X	X	X	X	X			
ARK-AP2-FD-04	02-04-25	NA	FD	N	WQ				X		X	X	X	X	X			**Metals: Ag, B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
ARK-AP2-FB-03	02-04-25	1740	FB	N	WQ				X		X	X	X	X	X			
ARK-AP2-FB-04	02-04-25	1715	FB	N	WQ				X		X	X	X	X	X			

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		Stantec	02/05/2025			2/5/25
2			2/5/25 1450			2/9/25 1450
3						

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

Fax Results: [ ] Yes [X] No

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

Additional Remarks: Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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.)

707343
707453 707454
707431 707433

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC | SDG/AR/COC/Work Order: | GEL PM:

Received By: AW | Date Received at GEL: 2-5-25

Carrier (Circle Applicable)
FedEx Express FedEx Ground UPS Field Services (Courier) Client Other:

IR Temp gun # 4-84 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	5		Cooler 6	2	
Cooler 2	4		Cooler 7	3	
Cooler 3	3		Cooler 8	4	
Cooler 4	2		Cooler 9	5	
Cooler 5	3		Cooler 10	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): Ø (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) WO# 707431 ARK-AP2-FD-04 has dissolved metals not on coc
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:
cooler 11-1
cooler 12-2

PM (or PMA) review: Initials TWB Date FEB 07 2025

☐ Continuation Form Required when selected

Outlook

RE: Receipt Issues with Samples Received on 2/5/25 (WO 707431)

From Betsy McDaniel <betsy.mcdaniel@atlcc.net>
Date Thu 2/6/2025 10:07 AM
To Alaina Pinnick <Alaina.Pinnick@gel.com>; Tidwell, Christopher Aaron <catidwel@southernco.com>
Cc Jurinko, Kristen Nichole <knjurink@southernco.com>; Midkiff, Laura B. <lbmidkif@southernco.com>; Smilley, Michael Jay <mjsmille@southernco.com>; Team Pinnick <Team.Pinnick@gel.com>

Alaina:

ACC handles sampling for Plant Kraft – Grumman and Plant Branch.
Presumably, someone with Stantec will get back with you about the Plant Arkwright issues noted below. I will disregard this email.
Sample login information for all of the Plant Kraft – Grumman pieces looked good, and Plant Branch is on the calendar for sampling during the weeks of 2/17 and 2/24.
Let me know, if you need anything from ACC.

Betsy McDaniel
Atlantic Coast Consulting, Inc.

__tpx__

From: Alaina Pinnick <Alaina.Pinnick@gel.com>
Sent: Thursday, February 6, 2025 9:56 AM
To: Betsy McDaniel <betsy.mcdaniel@atlcc.net>; Tidwell, Christopher Aaron <catidwel@southernco.com>
Cc: Jurinko, Kristen Nichole <knjurink@southernco.com>; Midkiff, Laura B. <lbmidkif@southernco.com>; Smith, Edgar <edgar.smithii@stantec.com>; Lieu, Carole <carole.lieu@stantec.com>; Ross, Katie <katie.ross@stantec.com>; Smilley, Michael Jay <mjsmille@southernco.com>; Kolbe, Jennifer <jennifer.kolbe@stantec.com>; Shoredits, Andreas <andreas.shoredits@stantec.com>
Subject: Receipt Issues with Samples Received on 2/5/25 (WO 707431)

Good morning,

There were 2 receipt issues with the samples received yesterday:

1. For sample ID "**ARK-AP2-FD-04**" (GEL 707431016, highlighted in green on the COC), we received an extra container with nitric preservation labeled for Dissolved Metals with no requested for Dissolved Metals on the COC. I have attached an image of the container we received along with the associated COC. Please let us know if this test request was sent in error.

2. For sample ID "**ARK-ARAMW-7**" (GEL 707431008, highlighted in yellow on the COC), we received a container with the Nitrate/Nitrite test request; however, the container is preserved with nitric. We received all containers we expected, and this seems to be an extra. Additionally, Nitrate/Nitrite is not requested for this sample ID on the COC. I have attached images of the container and the COC for reference. Please let us know if this test request was sent in error.

Please let me know how you'd like to proceed!

Thank you,
Alaina Pinnick
Project Manager

2040 Savage Road, Charleston, SC 29407
Office Direct: 843.769.7371 Ext. 4443 | Office Main: 843.556.8171 | Fax: 843.766.1178
E-Mail: Alaina.Pinnick@gel.com | Website: www.gel.com
Analytical Testing

List of current GEL Certifications as of 14 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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

March 04, 2025

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778971

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on February 11, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
770-734-4205
Project Manager

Enclosures

cc: Jordan Gamble, ARCADIS US, Inc. - Atlanta
Ben Hodges, Southern Company
Priya Jacob, ARCADIS US, Inc. - Atlanta
Jennifer Kolbe, Stantec Consulting
Laura Midkiff, Southern Company
Noelia Muskus Ruiz, Georgia Power
Tina Sullivan, ERM

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778971

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778971

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92778971001	**ARK-BC-0.8a**	Water	02/10/25 11:52	02/11/25 14:02
92778971002	**ARK-BC-0.5.5**	Water	02/10/25 12:00	02/11/25 14:02
92778971003	**ARK-BC-0.5.6**	Water	02/10/25 12:10	02/11/25 14:02
92778971004	**ARK-BC-0.5.7**	Water	02/10/25 11:33	02/11/25 14:02
92778971005	**ARK-BC-BR**	Water	02/10/25 11:08	02/11/25 14:02

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778971

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92778971001	**ARK-BC-0.8a**	EPA 6010D	MGW	5	PASI-A
		EPA 6020B	DBB1	3	PASI-A
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92778971002	**ARK-BC-0.5.5**	EPA 6010D	MGW	5	PASI-A
		EPA 6020B	DBB1	3	PASI-A
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92778971003	**ARK-BC-0.5.6**	EPA 6010D	MGW	5	PASI-A
		EPA 6020B	DBB1	3	PASI-A
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92778971004	**ARK-BC-0.5.7**	EPA 6010D	MGW	5	PASI-A
		EPA 6020B	DBB1	3	PASI-A
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92778971005	**ARK-BC-BR**	EPA 6010D	MGW	5	PASI-A
		EPA 6020B	DBB1	3	PASI-A
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 9056A	JCM	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778971

Sample: ARK-BC-0.8a **Lab ID: 92778971001** Collected: 02/10/25 11:52 Received: 02/11/25 14:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Boron	ND	mg/L	0.050	1	02/13/25 02:30	02/19/25 18:34	7440-42-8	
Calcium	**8.7**	mg/L	0.10	1	02/13/25 02:30	02/19/25 18:34	7440-70-2	
Magnesium	**4.0**	mg/L	0.10	1	02/13/25 02:30	02/19/25 18:34	7439-95-4	
Potassium	ND	mg/L	5.0	1	02/13/25 02:30	02/19/25 18:34	7440-09-7	
Sodium	**9.1**	mg/L	5.0	1	02/13/25 02:30	02/19/25 18:34	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Cobalt	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 22:46	7440-48-4	
Lithium	ND	mg/L	0.0025	1	02/13/25 02:30	02/28/25 22:46	7439-93-2	L5
Molybdenum	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 22:46	7439-98-7	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**40.8**	mg/L	5.0	1		02/13/25 15:58		
Alkalinity, Total as CaCO3	**40.8**	mg/L	5.0	1		02/13/25 15:58		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**84.0**	mg/L	25.0	1		02/14/25 11:34		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**8.5**	mg/L	1.0	1		02/12/25 08:32	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/12/25 08:32	16984-48-8	
Sulfate	**4.9**	mg/L	1.0	1		02/12/25 08:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778971

Sample: ARK-BC-0.5.5 **Lab ID: 92778971002** Collected: 02/10/25 12:00 Received: 02/11/25 14:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Boron	ND	mg/L	0.050	1	02/13/25 02:30	02/19/25 18:38	7440-42-8	
Calcium	**9.2**	mg/L	0.10	1	02/13/25 02:30	02/19/25 18:38	7440-70-2	
Magnesium	**4.2**	mg/L	0.10	1	02/13/25 02:30	02/19/25 18:38	7439-95-4	
Potassium	ND	mg/L	5.0	1	02/13/25 02:30	02/19/25 18:38	7440-09-7	
Sodium	**9.0**	mg/L	5.0	1	02/13/25 02:30	02/19/25 18:38	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Cobalt	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 22:50	7440-48-4	
Lithium	ND	mg/L	0.0025	1	02/13/25 02:30	02/28/25 22:50	7439-93-2	L5
Molybdenum	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 22:50	7439-98-7	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**40.8**	mg/L	5.0	1		02/13/25 16:04		
Alkalinity, Total as CaCO3	**40.8**	mg/L	5.0	1		02/13/25 16:04		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**98.0**	mg/L	25.0	1		02/14/25 11:34		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**8.4**	mg/L	1.0	1		02/12/25 08:46	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/12/25 08:46	16984-48-8	
Sulfate	**6.3**	mg/L	1.0	1		02/12/25 08:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778971

Sample: ARK-BC-0.5.6 **Lab ID: 92778971003** Collected: 02/10/25 12:10 Received: 02/11/25 14:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Boron	ND	mg/L	0.050	1	02/13/25 02:30	02/19/25 18:41	7440-42-8	
Calcium	**9.0**	mg/L	0.10	1	02/13/25 02:30	02/19/25 18:41	7440-70-2	
Magnesium	**4.1**	mg/L	0.10	1	02/13/25 02:30	02/19/25 18:41	7439-95-4	
Potassium	ND	mg/L	5.0	1	02/13/25 02:30	02/19/25 18:41	7440-09-7	
Sodium	**8.9**	mg/L	5.0	1	02/13/25 02:30	02/19/25 18:41	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Cobalt	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 22:53	7440-48-4	
Lithium	ND	mg/L	0.0025	1	02/13/25 02:30	02/28/25 22:53	7439-93-2	L5
Molybdenum	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 22:53	7439-98-7	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**40.7**	mg/L	5.0	1		02/13/25 16:10		
Alkalinity, Total as CaCO3	**40.7**	mg/L	5.0	1		02/13/25 16:10		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**83.0**	mg/L	25.0	1		02/14/25 11:35		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**8.4**	mg/L	1.0	1		02/12/25 09:51	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/12/25 09:51	16984-48-8	
Sulfate	**6.4**	mg/L	1.0	1		02/12/25 09:51	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778971

Sample: ARK-BC-0.5.7 **Lab ID: 92778971004** Collected: 02/10/25 11:33 Received: 02/11/25 14:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Boron	ND	mg/L	0.050	1	02/13/25 02:30	02/19/25 18:52	7440-42-8	
Calcium	**8.7**	mg/L	0.10	1	02/13/25 02:30	02/19/25 18:52	7440-70-2	
Magnesium	**4.0**	mg/L	0.10	1	02/13/25 02:30	02/19/25 18:52	7439-95-4	
Potassium	ND	mg/L	5.0	1	02/13/25 02:30	02/19/25 18:52	7440-09-7	
Sodium	**8.8**	mg/L	5.0	1	02/13/25 02:30	02/19/25 18:52	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Cobalt	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 22:57	7440-48-4	
Lithium	ND	mg/L	0.0025	1	02/13/25 02:30	02/28/25 22:57	7439-93-2	L5
Molybdenum	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 22:57	7439-98-7	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**40.6**	mg/L	5.0	1		02/13/25 16:16		
Alkalinity, Total as CaCO3	**40.6**	mg/L	5.0	1		02/13/25 16:16		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**81.0**	mg/L	25.0	1		02/14/25 11:35		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**8.5**	mg/L	1.0	1		02/12/25 10:06	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/12/25 10:06	16984-48-8	
Sulfate	**5.9**	mg/L	1.0	1		02/12/25 10:06	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778971

Sample: ARK-BC-BR **Lab ID: 92778971005** Collected: 02/10/25 11:08 Received: 02/11/25 14:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Boron	ND	mg/L	0.050	1	02/13/25 02:30	02/19/25 18:55	7440-42-8	
Calcium	**9.3**	mg/L	0.10	1	02/13/25 02:30	02/19/25 18:55	7440-70-2	
Magnesium	**4.2**	mg/L	0.10	1	02/13/25 02:30	02/19/25 18:55	7439-95-4	
Potassium	ND	mg/L	5.0	1	02/13/25 02:30	02/19/25 18:55	7440-09-7	
Sodium	**9.2**	mg/L	5.0	1	02/13/25 02:30	02/19/25 18:55	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Cobalt	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:01	7440-48-4	
Lithium	ND	mg/L	0.0025	1	02/13/25 02:30	02/28/25 23:01	7439-93-2	L5
Molybdenum	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:01	7439-98-7	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**40.8**	mg/L	5.0	1		02/13/25 16:21		
Alkalinity, Total as CaCO3	**40.8**	mg/L	5.0	1		02/13/25 16:21		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**83.0**	mg/L	25.0	1		02/14/25 11:35		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**8.4**	mg/L	1.0	1		02/12/25 10:21	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/12/25 10:21	16984-48-8	
Sulfate	**6.2**	mg/L	1.0	1		02/12/25 10:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778971

QC Batch: 915862
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778971001, 92778971002, 92778971003, 92778971004, 92778971005

METHOD BLANK: 4707271 Matrix: Water
Associated Lab Samples: 92778971001, 92778971002, 92778971003, 92778971004, 92778971005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.050	02/19/25 17:55	
Calcium	mg/L	ND	0.10	02/19/25 17:55	
Magnesium	mg/L	ND	0.10	02/19/25 17:55	
Potassium	mg/L	ND	5.0	02/19/25 17:55	
Sodium	mg/L	ND	5.0	02/19/25 17:55	

LABORATORY CONTROL SAMPLE: 4707272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	0.5	0.46	93	80-120	
Calcium	mg/L	5	5.1	102	80-120	
Magnesium	mg/L	5	4.7	95	80-120	
Potassium	mg/L	5	4.9J	98	80-120	
Sodium	mg/L	5	4.9J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4707273 4707274

Parameter	Units	92778963003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.058	0.5	0.5	0.53	0.56	95	100	75-125	4	20	
Calcium	mg/L	14.6	5	5	19.0	19.8	89	105	75-125	4	20	
Magnesium	mg/L	9.1	5	5	13.5	14.1	87	100	75-125	5	20	
Potassium	mg/L	ND	5	5	7.0	7.3	97	103	75-125	4	20	
Sodium	mg/L	7.9	5	5	12.4	13.0	90	102	75-125	5	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778971

QC Batch: 915863
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778971001, 92778971002, 92778971003, 92778971004, 92778971005

METHOD BLANK: 4707275 Matrix: Water
Associated Lab Samples: 92778971001, 92778971002, 92778971003, 92778971004, 92778971005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cobalt	mg/L	ND	0.0010	02/28/25 22:02	
Lithium	mg/L	ND	0.0025	02/28/25 22:02	
Molybdenum	mg/L	ND	0.0010	02/28/25 22:02	

LABORATORY CONTROL SAMPLE: 4707276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cobalt	mg/L	0.05	0.060	120	80-120	
Lithium	mg/L	0.05	0.061	121	80-120	L3
Molybdenum	mg/L	0.05	0.057	115	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4707277 4707278

Parameter	Units	92778963003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	mg/L	0.0096	0.05	0.05	0.070	0.075	121	132	75-125	8	20	M1
Lithium	mg/L	ND	0.05	0.05	0.059	0.060	117	118	75-125	1	20	
Molybdenum	mg/L	ND	0.05	0.05	0.057	0.057	114	114	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778971

QC Batch: 915793
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778971001, 92778971002, 92778971003, 92778971004, 92778971005

METHOD BLANK: 4706798 Matrix: Water
Associated Lab Samples: 92778971001, 92778971002, 92778971003, 92778971004, 92778971005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	02/13/25 13:22	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	02/13/25 13:22	

LABORATORY CONTROL SAMPLE: 4706799

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.0	102	80-120	

LABORATORY CONTROL SAMPLE: 4706800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.7	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4706801 4706802

Parameter	Units	92779002001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	3030	50	50	3060	3070	67	89	80-120	0	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4706803 4706804

Parameter	Units	92778963001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	50.1	50	50	99.8	99.1	99	98	80-120	1	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778971

QC Batch: 916188
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778971001, 92778971002, 92778971003, 92778971004, 92778971005

METHOD BLANK: 4708954 Matrix: Water
Associated Lab Samples: 92778971001, 92778971002, 92778971003, 92778971004, 92778971005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	02/14/25 11:34	

LABORATORY CONTROL SAMPLE: 4708955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	254	102	90-110	

SAMPLE DUPLICATE: 4708956

Parameter	Units	92778963006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	76.0	82.0	8	25	

SAMPLE DUPLICATE: 4708957

Parameter	Units	92778538027 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	286	291	2	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778971

QC Batch: 915460
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778971001, 92778971002, 92778971003, 92778971004, 92778971005

METHOD BLANK: 4705211 Matrix: Water
Associated Lab Samples: 92778971001, 92778971002, 92778971003, 92778971004, 92778971005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	02/11/25 22:06	
Fluoride	mg/L	ND	0.10	02/11/25 22:06	
Sulfate	mg/L	ND	1.0	02/11/25 22:06	

LABORATORY CONTROL SAMPLE: 4705212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.1	100	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4705213 4705214

Parameter	Units	92778963001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.1	50	50	53.6	57.4	99	107	90-110	7	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	98	104	90-110	6	10	
Sulfate	mg/L	1.8	50	50	51.4	55.3	99	107	90-110	7	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4705215 4705216

Parameter	Units	92778971005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.4	50	50	60.0	60.7	103	105	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	98	99	90-110	2	10	
Sulfate	mg/L	6.2	50	50	58.2	59.0	104	106	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778971

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
L5	LCS recovery exceeded QC limits. Batch accepted based on matrix spike recovery within LCS limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778971

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92778971001	**ARK-BC-0.8a**	EPA 3010A	915862	EPA 6010D	915871
92778971002	**ARK-BC-0.5.5**	EPA 3010A	915862	EPA 6010D	915871
92778971003	**ARK-BC-0.5.6**	EPA 3010A	915862	EPA 6010D	915871
92778971004	**ARK-BC-0.5.7**	EPA 3010A	915862	EPA 6010D	915871
92778971005	**ARK-BC-BR**	EPA 3010A	915862	EPA 6010D	915871
92778971001	**ARK-BC-0.8a**	EPA 3010A	915863	EPA 6020B	915872
92778971002	**ARK-BC-0.5.5**	EPA 3010A	915863	EPA 6020B	915872
92778971003	**ARK-BC-0.5.6**	EPA 3010A	915863	EPA 6020B	915872
92778971004	**ARK-BC-0.5.7**	EPA 3010A	915863	EPA 6020B	915872
92778971005	**ARK-BC-BR**	EPA 3010A	915863	EPA 6020B	915872
92778971001	**ARK-BC-0.8a**	SM 2320B-2011	915793		
92778971002	**ARK-BC-0.5.5**	SM 2320B-2011	915793		
92778971003	**ARK-BC-0.5.6**	SM 2320B-2011	915793		
92778971004	**ARK-BC-0.5.7**	SM 2320B-2011	915793		
92778971005	**ARK-BC-BR**	SM 2320B-2011	915793		
92778971001	**ARK-BC-0.8a**	SM 2540C-2015	916188		
92778971002	**ARK-BC-0.5.5**	SM 2540C-2015	916188		
92778971003	**ARK-BC-0.5.6**	SM 2540C-2015	916188		
92778971004	**ARK-BC-0.5.7**	SM 2540C-2015	916188		
92778971005	**ARK-BC-BR**	SM 2540C-2015	916188		
92778971001	**ARK-BC-0.8a**	EPA 9056A	915460		
92778971002	**ARK-BC-0.5.5**	EPA 9056A	915460		
92778971003	**ARK-BC-0.5.6**	EPA 9056A	915460		
92778971004	**ARK-BC-0.5.7**	EPA 9056A	915460		
92778971005	**ARK-BC-BR**	EPA 9056A	915460		

WO# : 92778971

92778971

Pace® Location Requested (City/State):
Pace Analytical Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

ONLY- Affix Workorder/Login Label Here

Company Name:	ARCADIS - Atlanta	Contact/Report To:	Priya Jacob
Street Address:	2839 Paces Ferry Rd, Atlanta, GA 30339	Phone #:	(618)790-6528
		E-Mail:	priya.jacob@arcadis.com
		Cc E-Mail:	Arcadis-Atl + GA Power Distribution List
Customer Project #:			
Project Name:	Plant Arkwright-CCR Ash Pond	Invoice To:	Accounts Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):	AP-2	Purchase Order # (if applicable):	GPC82474-0003
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Georgia

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other

DW PWSID # or WW Permit # as applicable:

Date Results Requested: 5 Day TAT

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App. IV Metals - Co, Li, Mo only	App. III Metals - B, Ca	Metals - K, Mg, Na	Alkalinity (Total/BiCarb)	Cl, F, SO4	TDS	Sample Comment
ARK-BC-0.8a	WS	G	2/10/25	1152			3			X	X	X	X	X	X	
ARK-BC-0.5.5	WS	G	2/10/25	1200			3			X	X	X	X	X	X	
ARK-BC-0.5.6	WS	G	2/10/25	1210			3			X	X	X	X	X	X	
ARK-BC-0.5.7	WS	G	2/10/25	1133			3			X	X	X	X	X	X	
ARK-BC-BR	WS	G	2/10/25	1108			3			X	X	X	X	X	X	

Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) [illegible]L, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Maiya Parks

AcctNum / Client ID:

Table #:

Profile / Template: 15836

Prelog / Bottle Ord. ID: EZ 3222943

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
ARK-CSURF-ASSMT-2025S1

Collected By: (Printed Name) Garrett G.

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Arcadis	2/11/25 1402		2/11/25 1402	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Arcadis

Project #: **WO#: 92778971**

PM: MP Due Date: 02/19/25

CLIENT: GA-ArcadAtl

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Pace ☐ Other:____ ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents:_____

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.1 Correction Factor: Add/Subtract (°C) 0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: W	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

WO#: 92778971

PM: MP Due Date: 02/19/25

CLIENT: GA-ArcadAtl

Project

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1			2																											
2			2																											
3			2																											
4			2																											
5			2																											
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

GEL Laboratories LLC
a member of The GEL Group INC

2040 Savage Road | Charleston, SC 29407
843.556.8171

gel.com

April 16, 2025

Joju Abraham
Georgia Power Company, Southern Company
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Arkwright CCR Groundwater Compliance Ash Pond 2
Work Order: 717056

Dear Joju Abraham:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on April 02, 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
717056001	ARK-ARAMW-7	Ground Water	03/31/25 16:05	04/02/25 09:25
717056002	ARK-ARAMW-10	Ground Water	03/31/25 16:15	04/02/25 09:25
717056003	ARK-ARAMW-11	Ground Water	03/31/25 12:30	04/02/25 09:25
717056004	ARK-ARAMW-7	Ground Water	03/31/25 16:05	04/02/25 09:25
717056005	ARK-ARAMW-10	Ground Water	03/31/25 16:15	04/02/25 09:25
717056006	ARK-ARAMW-11	Ground Water	03/31/25 12:30	04/02/25 09:25

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	07-APR-2025
SW846 7470A Prep	10-APR-2025

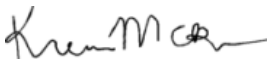
Analysis Methods and Analysis Dates

Method	Run Date ID
EPA 300.0	03-APR-2025

EPA 300.0	04-APR-2025
SM 2320B	02-APR-2025
SM 2540C	07-APR-2025
SW846 3005A/6020B	14-APR-2025
SW846 3005A/6020B	15-APR-2025
SW846 7470A	11-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: GPC82177-0005
Enclosures

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

Certificate of Analysis Report
for

GPCC003 Georgia Power Company

Client SDG: 717056 GEL Work Order: 717056

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

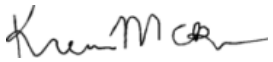
N/A RPD or %Recovery limits do not apply.

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 

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

Certificate of Analysis

Report Date: April 16, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater ComplianceAsh Pond 2

Client Sample ID:	ARK-ARAMW-7	Project:	GPCC01924
Sample ID:	717056001	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	31-MAR-25 16:05		
Receive Date:	02-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		5.32	0.335	1.00	mg/L		5	RXB5	04/03/25	1910	2776083	1
Fluoride	U	ND	0.165	0.500	mg/L		5					
Sulfate		1050	13.3	40.0	mg/L		100	RXB5	04/04/25	0019	2776083	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/11/25	1048	2779328	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum		0.111	0.0193	0.0500	mg/L	1.00	1	RM4	04/14/25	1848	2776224	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0410	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		0.0840	0.000300	0.00100	mg/L	1.00	1					
Iron		5.70	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0694	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000256	0.000200	0.00100	mg/L	1.00	1					
Potassium		10.5	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		30.4	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		2.63	0.130	0.375	mg/L	1.00	25	RM4	04/14/25	1728	2776224	5
Calcium		325	2.00	5.00	mg/L	1.00	25					
Manganese		15.6	0.0250	0.125	mg/L	1.00	25					
Magnesium		86.7	0.0500	0.150	mg/L	1.00	5	RM4	04/14/25	1818	2776224	6
Beryllium	J	0.000333	0.000200	0.000500	mg/L	1.00	1	RM4	04/15/25	0827	2776224	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1270	23.8	100	mg/L			KLP1	04/07/25	1320	2777117	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Certificate of Analysis

Report Date: April 16, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater ComplianceAsh Pond 2

Client Sample ID: ARK-ARAMW-7 Project: GPCC01924
Sample ID: 717056001 Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		63.5	0.725	2.00	mg/L			JW2	04/02/25	1339	2775391	9
Bicarbonate alkalinity (CaCO3)		63.5	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 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/10/25	1245	2779326
SW846 3005A	ICP-MS 3005A PREP	TB2	04/07/25	0920	2776222

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
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: April 16, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater ComplianceAsh Pond 2

Client Sample ID: ARK-ARAMW-10
Sample ID: 717056002
Matrix: WG
Collect Date: 31-MAR-25 16:15
Receive Date: 02-APR-25
Collector: Client

Project: GPCC01924
Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.93	0.134	0.400	mg/L		2	RXB5	04/03/25	2043	2776083	1
Fluoride	J	0.147	0.0660	0.200	mg/L		2					
Sulfate		1070	13.3	40.0	mg/L		100	RXB5	04/04/25	0152	2776083	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/11/25	1049	2779328	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum	J	0.0239	0.0193	0.0500	mg/L	1.00	1	RM4	04/14/25	1907	2776224	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0517	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		0.0159	0.000300	0.00100	mg/L	1.00	1					
Iron		0.724	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0636	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000768	0.000200	0.00100	mg/L	1.00	1					
Potassium		7.56	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		39.5	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		2.73	0.130	0.375	mg/L	1.00	25	RM4	04/14/25	1751	2776224	5
Calcium		367	2.00	5.00	mg/L	1.00	25					
Manganese		20.1	0.0250	0.125	mg/L	1.00	25					
Magnesium		75.8	0.0500	0.150	mg/L	1.00	5	RM4	04/14/25	1833	2776224	6
Beryllium	J	0.000228	0.000200	0.000500	mg/L	1.00	1	RM4	04/15/25	0841	2776224	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1230	23.8	100	mg/L			KLP1	04/07/25	1320	2777117	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Certificate of Analysis

Report Date: April 16, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater ComplianceAsh Pond 2

Client Sample ID: ARK-ARAMW-10 Project: GPCC01924
Sample ID: 717056002 Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		99.6	0.725	2.00	mg/L			JW2	04/02/25	1340	2775391	9
Bicarbonate alkalinity (CaCO3)		99.6	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	TB2	04/07/25	0920	2776222
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/10/25	1245	2779326

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
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: April 16, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater ComplianceAsh Pond 2

Client Sample ID: ARK-ARAMW-11
Sample ID: 717056003
Matrix: WG
Collect Date: 31-MAR-25 12:30
Receive Date: 02-APR-25
Collector: Client

Project: GPCC01924
Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.04	0.134	0.400	mg/L		2	RXB5	04/03/25	2114	2776083	1
Fluoride	U	ND	0.0660	0.200	mg/L		2					
Sulfate		1000	13.3	40.0	mg/L		100	RXB5	04/04/25	0222	2776083	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	04/11/25	1051	2779328	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals* "As Received"												
Aluminum		0.153	0.0193	0.0500	mg/L	1.00	1	RM4	04/14/25	1911	2776224	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1					
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0247	0.000670	0.00400	mg/L	1.00	1					
Cadmium		0.00122	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0367	0.000300	0.00100	mg/L	1.00	1					
Iron		0.377	0.0330	0.100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0511	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000497	0.000200	0.00100	mg/L	1.00	1					
Potassium		7.13	0.0800	0.300	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Sodium		30.1	0.0800	0.250	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		2.68	0.130	0.375	mg/L	1.00	25	RM4	04/14/25	1755	2776224	5
Calcium		314	2.00	5.00	mg/L	1.00	25					
Manganese		17.4	0.0250	0.125	mg/L	1.00	25					
Magnesium		87.3	0.0500	0.150	mg/L	1.00	5	RM4	04/14/25	1837	2776224	6
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1	RM4	04/15/25	0843	2776224	7
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1490	23.8	100	mg/L			KLP1	04/07/25	1320	2777117	8
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												

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Certificate of Analysis

Report Date: April 16, 2025

Company : Georgia Power Company, Southern Company
Address : 241 Ralph McGill Blvd NE, Bin 10160

Atlanta, Georgia 30308
Contact: Joju Abraham
Project: Arkwright CCR Groundwater ComplianceAsh Pond 2

Client Sample ID: ARK-ARAMW-11 Project: GPCC01924
Sample ID: 717056003 Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Titration and Ion Analysis												
SM 2320B Total Alkalinity "As Received"												
Alkalinity, Total as CaCO3		43.0	0.725	2.00	mg/L			JW2	04/02/25	1341	2775391	9
Bicarbonate alkalinity (CaCO3)		43.0	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 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	04/10/25	1245	2779326
SW846 3005A	ICP-MS 3005A PREP	TB2	04/07/25	0920	2776222

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
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: April 16, 2025

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater ComplianceAsh Pond 2

Client Sample ID:	ARK-ARAMW-7	Project:	GPCC01924
Sample ID:	717056004	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	31-MAR-25 16:05		
Receive Date:	02-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron		5.49	0.0330	0.100	mg/L	1.00	1	RM4	04/14/25	1914	2776224	1
Manganese		15.8	0.0250	0.125	mg/L	1.00	25	RM4	04/14/25	1759	2776224	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	04/07/25	0920	2776222

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: April 16, 2025

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater ComplianceAsh Pond 2

Client Sample ID:	ARK-ARAMW-10	Project:	GPCC01924
Sample ID:	717056005	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	31-MAR-25 16:15		
Receive Date:	02-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron		0.742	0.0330	0.100	mg/L	1.00	1	RM4	04/14/25	1918	2776224	1
Manganese		20.2	0.0250	0.125	mg/L	1.00	25	RM4	04/14/25	1802	2776224	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	04/07/25	0920	2776222

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
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Certificate of Analysis

Report Date: April 16, 2025

Company :	Georgia Power Company, Southern Company
Address :	241 Ralph McGill Blvd NE, Bin 10160
	Atlanta, Georgia 30308
Contact:	Joju Abraham
Project:	Arkwright CCR Groundwater ComplianceAsh Pond 2

Client Sample ID:	ARK-ARAMW-11	Project:	GPCC01924
Sample ID:	717056006	Client ID:	GPCC003
Matrix:	WG		
Collect Date:	31-MAR-25 12:30		
Receive Date:	02-APR-25		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Metals Analysis-ICP-MS												
SW846 3005A/6020B Dissolved Fe & Mn "As Received"												
Iron		0.151	0.0330	0.100	mg/L	1.00	1	RM4	04/14/25	1922	2776224	1
Manganese		16.0	0.0250	0.125	mg/L	1.00	25	RM4	04/14/25	1806	2776224	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	04/07/25	0920	2776222

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: April 16, 2025

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

Contact: **Joju Abraham**

Workorder: **717056**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography												
Batch 2776083												
QC1206059180 717056001 DUP												
Chloride			5.32		5.30	mg/L	0.386		(0%-20%)	RXB5	04/03/25	19:41
Fluoride		U	ND	U	ND	mg/L	N/A					
Sulfate			1050		1050	mg/L	0.358		(0%-20%)		04/04/25	00:50
QC1206059179 LCS												
Chloride	5.00				4.74	mg/L		94.7	(90%-110%)		04/03/25	18:39
Fluoride	2.50				2.49	mg/L		99.7	(90%-110%)			
Sulfate	10.0				9.80	mg/L		98	(90%-110%)			
QC1206059178 MB												
Chloride				U	ND	mg/L					04/03/25	18:08
Fluoride				U	ND	mg/L						
Sulfate				U	ND	mg/L						
QC1206059181 717056001 PS												
Chloride	5.00		1.06		5.87	mg/L		96.2	(90%-110%)		04/03/25	20:12
Fluoride	2.50	U	ND		2.55	mg/L		101	(90%-110%)			
Sulfate	10.0		10.5		20.9	mg/L		104	(90%-110%)		04/04/25	01:21

QC Summary

Workorder: **717056**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2776224										
QC1206059375 LCS										
Aluminum	2.00			2.21	mg/L		110	(80%-120%)	RM4	04/14/25 17:25
Antimony	0.0500			0.0517	mg/L		103	(80%-120%)		
Arsenic	0.0500			0.0543	mg/L		109	(80%-120%)		
Barium	0.0500			0.0552	mg/L		110	(80%-120%)		
Beryllium	0.0500			0.0576	mg/L		115	(80%-120%)		04/15/25 08:25
Boron	0.100			0.114	mg/L		114	(80%-120%)		04/14/25 17:25
Cadmium	0.0500			0.0537	mg/L		107	(80%-120%)		
Calcium	2.00			2.24	mg/L		112	(80%-120%)		
Chromium	0.0500			0.0542	mg/L		108	(80%-120%)		
Cobalt	0.0500			0.0537	mg/L		107	(80%-120%)		
Iron	2.00			2.16	mg/L		108	(80%-120%)		
Lead	0.0500			0.0548	mg/L		110	(80%-120%)		
Lithium	0.0500			0.0574	mg/L		115	(80%-120%)		
Magnesium	2.00			2.22	mg/L		111	(80%-120%)		

QC Summary

Workorder: **717056**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2776224										
Manganese	0.0500			0.0540	mg/L		108	(80%-120%)	RM4	04/14/25 17:25
Molybdenum	0.0500			0.0560	mg/L		112	(80%-120%)		
Potassium	2.00			2.13	mg/L		107	(80%-120%)		
Selenium	0.0500			0.0516	mg/L		103	(80%-120%)		
Silver	0.0500			0.0555	mg/L		111	(80%-120%)		
Sodium	2.00			2.27	mg/L		114	(80%-120%)		
Thallium	0.0500			0.0526	mg/L		105	(80%-120%)		
QC1206059374 MB										
Aluminum			U	ND	mg/L					04/14/25 17:21
Antimony			U	ND	mg/L					
Arsenic			U	ND	mg/L					
Barium			U	ND	mg/L					
Beryllium			U	ND	mg/L					04/15/25 08:23
Boron			U	ND	mg/L					04/14/25 17:21
Cadmium			U	ND	mg/L					

QC Summary

Workorder: **717056**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2776224										
Calcium			U	ND	mg/L				RM4	04/14/25 17:21
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					
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					
Silver			U	ND	mg/L					
Sodium			U	ND	mg/L					
Thallium			U	ND	mg/L					

QC Summary

Workorder: **717056**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2776224											
QC1206059376 717056001 MS											
Aluminum	2.00		0.111		2.33	mg/L		111	(75%-125%)	RM4	04/14/25 18:52
Antimony	0.0500	U	ND		0.0514	mg/L		103	(75%-125%)		
Arsenic	0.0500	U	ND		0.0565	mg/L		110	(75%-125%)		
Barium	0.0500		0.0410		0.0947	mg/L		107	(75%-125%)		
Beryllium	0.0500	J	0.000333		0.0586	mg/L		117	(75%-125%)		04/15/25 08:29
Boron	0.100		2.63		2.87	mg/L		N/A	(75%-125%)		04/14/25 17:32
Cadmium	0.0500	U	ND		0.0512	mg/L		102	(75%-125%)		04/14/25 18:52
Calcium	2.00		325		330	mg/L		N/A	(75%-125%)		04/14/25 17:32
Chromium	0.0500	U	ND		0.0536	mg/L		106	(75%-125%)		04/14/25 18:52
Cobalt	0.0500		0.0840		0.138	mg/L		109	(75%-125%)		
Iron	2.00		5.70		7.97	mg/L		113	(75%-125%)		
Lead	0.0500	U	ND		0.0507	mg/L		101	(75%-125%)		
Lithium	0.0500		0.0694		0.129	mg/L		120	(75%-125%)		
Magnesium	2.00		86.7		90.1	mg/L		N/A	(75%-125%)		04/14/25 18:21

QC Summary

Workorder: **717056**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2776224											
Manganese	0.0500		15.6		16.3	mg/L		N/A	(75%-125%)	RM4	04/14/25 17:32
Molybdenum	0.0500	J	0.000256		0.0570	mg/L		114	(75%-125%)		04/14/25 18:52
Potassium	2.00		10.5		12.8	mg/L		N/A	(75%-125%)		
Selenium	0.0500	U	ND		0.0541	mg/L		108	(75%-125%)		
Silver	0.0500	U	ND		0.0505	mg/L		101	(75%-125%)		
Sodium	2.00		30.4		33.5	mg/L		N/A	(75%-125%)		
Thallium	0.0500	U	ND		0.0498	mg/L		99.5	(75%-125%)		
QC1206059377 717056001 MSD											
Aluminum	2.00		0.111		2.31	mg/L	0.496	110	(0%-20%)		04/14/25 18:56
Antimony	0.0500	U	ND		0.0509	mg/L	1.06	102	(0%-20%)		
Arsenic	0.0500	U	ND		0.0562	mg/L	0.552	109	(0%-20%)		
Barium	0.0500		0.0410		0.0928	mg/L	2.04	104	(0%-20%)		
Beryllium	0.0500	J	0.000333		0.0590	mg/L	0.648	117	(0%-20%)		04/15/25 08:31
Boron	0.100		2.63		2.73	mg/L	4.93	N/A	(0%-20%)		04/14/25 17:36
Cadmium	0.0500	U	ND		0.0501	mg/L	2.27	100	(0%-20%)		04/14/25 18:56

QC Summary

Workorder: **717056**

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS											
Batch 2776224											
Calcium	2.00		325		319	mg/L	3.56	N/A	(0%-20%)	RM4	04/14/25 17:36
Chromium	0.0500	U	ND		0.0537	mg/L	0.283	107	(0%-20%)		04/14/25 18:56
Cobalt	0.0500		0.0840		0.136	mg/L	1.63	104	(0%-20%)		
Iron	2.00		5.70		7.81	mg/L	2.1	105	(0%-20%)		
Lead	0.0500	U	ND		0.0505	mg/L	0.34	101	(0%-20%)		
Lithium	0.0500		0.0694		0.126	mg/L	2.58	113	(0%-20%)		
Magnesium	2.00		86.7		86.4	mg/L	4.2	N/A	(0%-20%)		04/14/25 18:25
Manganese	0.0500		15.6		15.4	mg/L	5.43	N/A	(0%-20%)		04/14/25 17:36
Molybdenum	0.0500	J	0.000256		0.0562	mg/L	1.55	112	(0%-20%)		04/14/25 18:56
Potassium	2.00		10.5		12.5	mg/L	2.26	N/A	(0%-20%)		
Selenium	0.0500	U	ND		0.0536	mg/L	0.882	107	(0%-20%)		
Silver	0.0500	U	ND		0.0497	mg/L	1.55	99.4	(0%-20%)		
Sodium	2.00		30.4		32.5	mg/L	3.17	N/A	(0%-20%)		
Thallium	0.0500	U	ND		0.0499	mg/L	0.154	99.7	(0%-20%)		

QC Summary

Workorder: **717056**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2776224										
QC1206059378 717056001 SDILT										
Aluminum		111	J	23.9	ug/L	7.91		(0%-20%)	RM4	04/14/25 19:03
Antimony	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Arsenic	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Barium		41.0		8.24	ug/L	.632		(0%-20%)		
Beryllium	J	0.333	U	ND	ug/L	N/A		(0%-20%)		04/15/25 08:35
Boron		105		24.3	ug/L	15.6		(0%-20%)		04/14/25 17:40
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)		04/14/25 19:03
Calcium		13000		2620	ug/L	.777		(0%-20%)		04/14/25 17:40
Chromium	U	ND	U	ND	ug/L	N/A		(0%-20%)		04/14/25 19:03
Cobalt		84.0		17.9	ug/L	6.36		(0%-20%)		
Iron		5700		1210	ug/L	6.15		(0%-20%)		
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Lithium		69.4		14.0	ug/L	.637		(0%-20%)		
Magnesium		17300		3490	ug/L	.475		(0%-20%)		04/14/25 18:29

QC Summary

Workorder: **717056**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis - ICPMS										
Batch 2776224										
Manganese		626		127	ug/L	1.24		(0%-20%)	RM4	04/14/25 17:40
Molybdenum	J	0.256	U	ND	ug/L	N/A		(0%-20%)		04/14/25 19:03
Potassium		10500		2060	ug/L	1.68		(0%-20%)		
Selenium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Silver	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Sodium		30400		6210	ug/L	2.06		(0%-20%)		
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)		
Metals Analysis-Mercury										
Batch 2779328										
QC1206065642 LCS										
Mercury 0.00200				0.00198	mg/L		98.8	(80%-120%)	JP2	04/11/25 10:46
QC1206065641 MB										
Mercury			U	ND	mg/L					04/11/25 10:44
QC1206065643 717085001 MS										
Mercury 0.00200	U	ND		0.00192	mg/L		96.2	(75%-125%)		04/11/25 10:54
QC1206065644 717085001 MSD										
Mercury 0.00200	U	ND		0.00195	mg/L	1.6	97.7	(0%-20%)		04/11/25 10:56
QC1206065645 717085001 SDILT										
Mercury	U	ND	U	ND	ug/L	N/A		(0%-10%)		04/11/25 11:02

QC Summary

Workorder: **717056**

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Solids Analysis										
Batch 2777117										
QC1206061180 717009001 DUP										
Total Dissolved Solids		128		125	mg/L	2.37		(0%-5%)	KLP1	04/07/25 13:20
QC1206061179 LCS										
Total Dissolved Solids	300			293	mg/L		97.7	(95%-105%)		04/07/25 13:20
QC1206061178 MB										
Total Dissolved Solids			J	3.00	mg/L					04/07/25 13:20
Titration and Ion Analysis										
Batch 2775391										
QC1206057693 717123001 DUP										
Alkalinity, Total as CaCO3		108		107	mg/L	0.797		(0%-20%)	JW2	04/02/25 13:44
QC1206057692 LCS										
Alkalinity, Total as CaCO3	50.0			53.5	mg/L		107	(90%-110%)		04/02/25 13:37
QC1206057694 717123001 MS										
Alkalinity, Total as CaCO3	71.4	108		184	mg/L		107	(80%-120%)		04/02/25 13:45

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

QC Summary

Workorder: **717056**

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

^ 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 #: 717056

Metals

Product: **Determination of Metals by ICP-MS**
Analytical Method: SW846 3005A/6020B
Analytical Procedure: GL-MA-E-014 REV# 37
Analytical Batch: 2776224

Preparation Method: SW846 3005A
Preparation Procedure: GL-MA-E-006 REV# 15
Preparation Batch: 2776222

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

GEL Sample ID#	Client Sample Identification
717056001	ARK-ARAMW-7
717056002	ARK-ARAMW-10
717056003	ARK-ARAMW-11
717056004	ARK-ARAMW-7
717056005	ARK-ARAMW-10
717056006	ARK-ARAMW-11
1206059374	Method Blank (MB)**ICP-MS**
1206059375	Laboratory Control Sample (LCS)
1206059378	717056001(ARK-ARAMW-7L) Serial Dilution (SD)
1206059376	717056001(ARK-ARAMW-7S) Matrix Spike (MS)
1206059377	717056001(ARK-ARAMW-7SD) Matrix Spike Duplicate (MSD)

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

Data Summary:

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

Calibration Information

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

Technical Information

Sample Dilutions
Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	717056					
	001	002	003	004	005	006

Boron	25X	25X	25X			
Calcium	25X	25X	25X			
Magnesium	5X	5X	5X			
Manganese	25X	25X	25X	25X	25X	25X

Product: **Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer**
Analytical Method: SW846 7470A
Analytical Procedure: GL-MA-E-010 REV# 42
Analytical Batch: 2779328

Preparation Method: SW846 7470A Prep
Preparation Procedure: GL-MA-E-010 REV# 42
Preparation Batch: 2779326

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

GEL Sample ID#	Client Sample Identification
717056001	ARK-ARAMW-7
717056002	ARK-ARAMW-10
717056003	ARK-ARAMW-11
1206065641	Method Blank (MB)**CVAA**
1206065642	Laboratory Control Sample (LCS)
1206065645	717085001(NonSDGL) Serial Dilution (SD)
1206065643	717085001(NonSDGS) Matrix Spike (MS)
1206065644	717085001(NonSDGSD) Matrix Spike Duplicate (MSD)

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: 2776083

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

GEL Sample ID#	Client Sample Identification
717056001	ARK-ARAMW-7
717056002	ARK-ARAMW-10
717056003	ARK-ARAMW-11
1206059178	Method Blank (MB)
1206059179	Laboratory Control Sample (LCS)
1206059180	717056001(ARK-ARAMW-7) Sample Duplicate (DUP)

1206059181 717056001(ARK-ARAMW-7) 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 1206059180 (ARK-ARAMW-7DUP), 1206059181 (ARK-ARAMW-7PS), 717056001 (ARK-ARAMW-7), 717056002 (ARK-ARAMW-10) and 717056003 (ARK-ARAMW-11) were diluted to minimize matrix effects on instrument performance. Samples 1206059180 (ARK-ARAMW-7DUP), 1206059181 (ARK-ARAMW-7PS), 717056001 (ARK-ARAMW-7), 717056002 (ARK-ARAMW-10) and 717056003 (ARK-ARAMW-11) 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	717056		
	001	002	003
Chloride	5X	2X	2X
Fluoride	5X	2X	2X
Sulfate	100X	100X	100X

Miscellaneous Information

Manual Integrations
Samples 1206059180 (ARK-ARAMW-7DUP), 1206059181 (ARK-ARAMW-7PS), 717056001 (ARK-ARAMW-7), 717056002 (ARK-ARAMW-10) and 717056003 (ARK-ARAMW-11) 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: 2777117

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

GEL Sample ID#	Client Sample Identification
717056001	ARK-ARAMW-7
717056002	ARK-ARAMW-10
717056003	ARK-ARAMW-11
1206061178	Method Blank (MB)
1206061179	Laboratory Control Sample (LCS)
1206061180	717009001(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. 717056001 (ARK-ARAMW-7), 717056002 (ARK-ARAMW-10) and 717056003 (ARK-ARAMW-11).

Product: **Alkalinity**
Analytical Method: SM 2320B
Analytical Procedure: GL-GC-E-033 REV# 17
Analytical Batch: 2775391

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

GEL Sample ID#	Client Sample Identification
717056001	ARK-ARAMW-7
717056002	ARK-ARAMW-10
717056003	ARK-ARAMW-11
1206057692	Laboratory Control Sample (LCS)
1206057693	717123001(NonSDG) Sample Duplicate (DUP)
1206057694	717123001(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.

Miscellaneous Information

Additional Comments
A reduced aliquot was used due to limited sample volume. 1206057693 (Non SDG 717123001DUP) and 1206057694 (Non SDG 717123001MS).

Certification Statement

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

Page: 1 of 1
Project # 175569434
GEL Quote #:
COC Number [1]: 1 Sample Cooler(s) 1
PO Number: GPC82177-0005

Page 69 of 131 SDG: 417056

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

Chain of Custody and Analytical Request

GEL Work Order Number: **GEL Project Manager: Alaina Pinnick**

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

417056
417059

Client Name: Georgia Power Phone # (937-344-6533)
Project/Site Name: Plant Arkwright Ash Pond _2_ Fax: N/A
Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
Collected By: Jackson Bankston, Max Moore
Send Results To: jabraham@southernco.com EDD@stantec.com jennifer.kolbe@stantec.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 (6020B) NI	**Metals (6020B) NI	Alkalinity (300.0 R2.1) see Additional Remarks NI	TDS (SM Method 2540C)	Anions (Cl, Fl, Sulfate) (300.0 Rev. 2.1 1993)	RAD 226-228 Cmbd NI	Mercury (7470B) NI	Fe2+/ Mn2+ (6020B) Field Filtered NI				<-- Preservative Type (6)
ARK-ARAMW-7	03-31-25	1605	N	N	WG				X		X	X	X	X	X					
ARK-ARAMW-7	03-31-25	1605	N	Y	WG											X				
ARK-ARAMW-10	03-31-25	1615	N	N	WG				X		X	X	X	X	X					
ARK-ARAMW-10	03-31-25	1615	N	Y	WG											X				
ARK-ARAMW-11	03-31-25	1230	N	N	WG				X		X	X	X	X	X					
ARK-ARAMW-11	03-31-25	1230	N	Y	WG											X				

Comments (task_code: ARK-CCR-OTH-20250331)

*Metals: Ag, B, Ca, Al, K, Mg, Na, Fe, Mn, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl

**Metals: Ag, B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl

Chain of Custody Signatures

	Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
1		ANDREAS SHORDUITS Stantec	4/1/2025			4/2/25 925
2						
3						

TAT Requested: **Normal:** X **Rush:** _____ **Specify:** _____ **(Subject to Surcharge)**

Fax Results: [ ] Yes [X] No

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

Additional Remarks: Alkalinity: bicarbonate as CaCO3, carbonate as CaCO3, total as CaCO3

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.)

GEL Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

Client: GPCC	SDG/AR/COC/Work Order: ~~717059~~ 717056	GEL PM:
Received By: QG	Date Received at GEL: 4/2/25	

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).
8802 3741 1423	1C				

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 SH Date 4/3/25

☐ Continuation Form Required when selected

List of current GEL Certifications as of 16 April 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

B.5 Data Quality Evaluation

DATA USABILITY SUMMARY

Steven Elliott (Stantec) reviewed three data packages from GEL Laboratories (GEL) for the analysis of water samples collected August 20, 2024, at the Georgia Power Arkwright Plant AP2 site. Samples were collected according to the Field Sampling Plan – Plant Arkwright (Amec Foster Wheeler, 2016).

Analyses requested included:

- SW-846 6020B – Metals, total and dissolved, by inductively coupled plasma - mass spectrometry (ICP/MS)
- SW-846 7470A – Mercury by manual cold-vapor
- EPA 300 Rev 2.1 – Chloride, fluoride, and sulfate by ion chromatography
- SM 2540C - 2015 – Total dissolved solids (TDS)
- EPA 353.2 – Nitrate/nitrite as nitrogen
- SM 2320B – Alkalinity, total, bicarbonate, carbonate
- EPA Method 904/ SW846 9320 Modified – Radium 228 by Gas Flow Proportional Counting
- EPA Method 903.1 Mod – Radium 226

Data were reviewed and validated as described in the field sampling plan and the *National Functional Guidelines for Inorganic Superfund Methods Data Review* (November 2020). The results of the review/validation are discussed in this Data Usability Summary (DUS) and the associated Laboratory Data Review Checklists.

DATA REVIEW/VALIDATION RESULTS

Introduction

Ten (10) groundwater samples, one (1) field blank, one (1) equipment blank, and one (1) field duplicate sample were analyzed for one or more of the analyses listed above. Table 1 lists the field identifications cross-referenced to laboratory identifications. Table 2 is a summary of qualified data. Tables 3a through 3e summarize field duplicate results.

Analytical Results

The data packages contain a minimum of one quality control batch per analytical method analyzed. The quality control batch identifies the laboratory QC samples that correspond to the designated field samples. Not detected results are reported as less than the value of the method detection limit (MDL).

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody forms. The samples were received in the appropriate containers with the paperwork filled out properly. The laboratory sample condition upon receipt forms indicates all samples were received at a temperature of 2.0°C. All samples were analyzed within the technical holding time. No data were qualified.

Calibrations

Case narratives indicate Initial and continuing calibration verification data were within method acceptance criteria.

Blanks

Laboratory Method Blanks. No contamination was detected in any of the laboratory method blanks.

Field Blanks. Field blanks were analyzed for the full suite of sample analyses and all analytes were not detected with the following exceptions:

SDG 682093

- Chloride was detected in the blank ARK-AP2-EB-03 at a concentration below the laboratory Reporting Limit (RL). All associated sample results were reported with results greater than 10 times the blank concentration and therefore no qualification was necessary.
- Nitrate/nitrite was detected in the blank ARK-AP2-FB-03 at a concentration above the laboratory RL. Detected sample results reported with results less than 10 times the blank concentration have been qualified as estimated (J).

Laboratory Control Samples

Laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) recoveries met the laboratory acceptance criteria for all analyses.

Matrix Spike/Matrix Spike Duplicates

Site-specific MS/MSD precision and accuracy results were within the laboratory acceptance criteria.

Laboratory Duplicates

Appropriate analytical duplicates were analyzed and RPDs were within the laboratory acceptance criteria.

Field Precision

One set of field duplicate samples was collected for this sampling event (see Table 3a for sample/duplicate identification and precision calculations). The calculated RPDs between sample and duplicate were within the QAPP acceptance criteria of 25% for all analytes detected above five times the RL. For results reported less than five times the RL, with a difference between sample and duplicate less than two times the RL are also considered acceptable (qualified "A*"). All field duplicate precision was considered acceptable with the following exception:

SDG 652690

- Results for nitrate/nitrate in the field duplicate pair ARK-ARAMW-8/ ARK-AP2-FD-03 were less than five times the RL and the difference between the two results was greater than two times the RL. Nitrate/nitrite has been qualified as estimated (J) in these sample.

Summary

The groundwater analytical data are usable for the purpose of determining current concentrations of COCs in this medium at the affected property. A summary of qualified data is presented in Table 2 below.

References:

Amec Foster Wheeler, 2016. Arkwright Field Sampling Plan. October.

United State Environmental Protection Agency (USEPA), 2020. National Functional Guidelines for Superfund Inorganic Methods Data Review. November.

Table 1 – Cross-Reference between Laboratory and Field Identifications

Field Identification	Laboratory Identification	SDG	Analyses	Sample Date
ARK-ARGWA-19	682093001	682093	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/20/2024
ARK-ARAMW-9	682093010	682093	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/20/2024
ARK-ARGWA-20	682093002	682093	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/20/2024
ARK-ARAMW-7	682093008	682093	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/20/2024
ARK-ARGWC-22	682093004	682093	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/20/2024
ARK-ARGWC-21	682093003	682093	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/20/2024
ARK-ARGWC-23	682093005	682093	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/20/2024
ARK-ARAMW-1	682093006	682093	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/20/2024
ARK-ARAMW-2	682093007	682093	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/20/2024
ARK-ARAMW-8	682093009	682093	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/20/2024
ARK-AP2-EB-03	682093011	682093	6020B, 7470A, 300, 2540C, 353.2	08/20/2024
ARK-AP2-FD-03	682093012	682093	6020B, 7470A, 300, 2540C, 353.2	08/20/2024
ARK-AP2-FB-03	682093013	682093	6020B, 7470A, 300, 2540C, 353.2	08/20/2024
ARK-ARGWA-19	682097001	682097	903.1, 904	08/20/2024
ARK-ARAMW-9	682097010	682097	903.1, 904	08/20/2024
ARK-ARGWA-20	682097002	682097	903.1, 904	08/20/2024
ARK-ARAMW-7	682097008	682097	903.1, 904	08/20/2024
ARK-ARGWC-22	682097004	682097	903.1, 904	08/20/2024
ARK-ARGWC-21	682097003	682097	903.1, 904	08/20/2024
ARK-ARGWC-23	682097005	682097	903.1, 904	08/20/2024
ARK-ARAMW-1	682097006	682097	903.1, 904	08/20/2024
ARK-ARAMW-2	682097007	682097	903.1, 904	08/20/2024
ARK-ARAMW-8	682097009	682097	903.1, 904	08/20/2024
ARK-AP2-EB-03	682097011	682097	903.1, 904	08/20/2024

Field Identification	Laboratory Identification	SDG	Analyses	Sample Date
ARK-AP2-FD-03	682097012	682097	903.1, 904	08/20/2024
ARK-AP2-FB-03	682097013	682097	903.1, 904	08/20/2024
ARK-ARGWA-19	682098001	682098	6020B (D) (Mg, Fe)	08/20/2024
ARK-ARAMW-9	682098010	682098	6020B (D) (Mg, Fe)	08/20/2024
ARK-ARGWA-20	682098002	682098	6020B (D) (Mg, Fe)	08/20/2024
ARK-ARAMW-7	682098008	682098	6020B (D) (Mg, Fe)	08/20/2024
ARK-ARGWC-22	682098004	682098	6020B (D) (Mg, Fe)	08/20/2024
ARK-ARGWC-21	682098003	682098	6020B (D) (Mg, Fe)	08/20/2024
ARK-ARGWC-23	682098005	682098	6020B (D) (Mg, Fe)	08/20/2024
ARK-ARAMW-1	682098006	682098	6020B (D) (Mg, Fe)	08/20/2024
ARK-ARAMW-2	682098007	682098	6020B (D) (Mg, Fe)	08/20/2024
ARK-ARAMW-8	682098009	682098	6020B (D) (Mg, Fe)	08/20/2024

Table 2 – Qualified Analytical Data

Field Identification	Analyte	Qualification / Code	Reason for Qualification
ARK-ARAMW-8	Nitrate/nitrite	J / FD2	High FD absolute difference
ARK-AP2-FD-03	Nitrate/nitrite	J / FD2	High FD absolute difference
ARK-ARGWC-22	Nitrate/nitrite	J+ / BFH	Detected in FB
ARK-ARAMW-2	Nitrate/nitrite	J+ / BFH	Detected in FB

BFH – Blank Field High – detected in the field blank (FB) above the RL
FD2 - Field duplicate absolute difference does not meet quality control criteria
J – estimated result
J+ – The analyte was detected in an associated blank; estimated data with a high bias

Table 3a – Field Precision

Field Identification	Analyte	Sample Result (mg/L)	Duplicate Result (mg/L)	RPD[a]	Qualified
ARK-ARAMW-8/ ARK-AP2-FD-03	Chloride	4.54	4.53	0.2%	A
	Fluoride	0.199	0.198	<5*RL, <2*RL	A*
	Sulfate	109	108	0.9%	A
	Boron	0.675	0.657	<5*RL, <2*RL	A*
	Barium	0.112	0.111	0.9%	A
	Calcium	79.2	77.4	2.3%	A
	Cobalt	0.00277	0.00298	<5*RL, <2*RL	A*
	Lithium	0.00586 J	0.0055 J	<5*RL, <2*RL	A*
	Iron	0.244	NA	NC	None
	Magnesium	33.7	NA	NC	None
	Molybdenum	0.195	0.187	<5*RL, <2*RL	A*
	Sodium	17.7	NA	NC	None
	Potassium	6.91	NA	NC	None
	Aluminum	0.0279 J	NA	NC	None
	Manganese	0.187	NA	NC	None
	Nitrate/nitrite	0.007 U	2.98	<5*RL, >2*RL	J
	TDS	422	438	3.7%	A
	Total Alkalinity	251	NA	NC	None
	Bicarbonate	251	NA	NC	None
	Radium 226	0.595	1.44 U	<5*RL, <2*RL	A*

[a] RPD = ((SR - DR)*200)/(SR + DR)
A - Acceptable Data.
A* - Acceptable data where results were less than 5X the RDL and the difference between sample and duplicate was less than 2X the RDL.
J – Estimated detected.
NA – not analyzed
NC – not calculated

Stantec
Georgia Power – Arkwright (AP-2)
Analytical Report Nos. 707431, 707433, 707434
February 2025

DATA USABILITY SUMMARY

Steven Elliott (Stantec) reviewed three data packages from GEL Laboratories (GEL) for the analysis of water samples collected February 4, 2025, at the Georgia Power Arkwright Plant AP2 site. Samples were collected according to the Field Sampling Plan – Plant Arkwright (Amec Foster Wheeler, 2016).

Analyses requested included:

- SW-846 6020B – Metals, total and dissolved, by inductively coupled plasma - mass spectrometry (ICP/MS)
- SW-846 7470A – Mercury by manual cold-vapor
- EPA 300 Rev 2.1 – Chloride, fluoride, and sulfate by ion chromatography
- SM 2540C - 2015 – Total dissolved solids (TDS)
- EPA 353.2 – Nitrate/nitrite as nitrogen
- SM 2320B – Alkalinity, total, bicarbonate, carbonate
- EPA Method 904/ SW846 9320 Modified – Radium 228 by Gas Flow Proportional Counting
- EPA Method 903.1 Mod – Radium 226

Data were reviewed and validated as described in the field sampling plan and the *National Functional Guidelines for Inorganic Superfund Methods Data Review* (November 2020). The results of the review/validation are discussed in this Data Usability Summary (DUS) and the associated Laboratory Data Review Checklists.

DATA REVIEW/VALIDATION RESULTS

Introduction

Twelve (12) groundwater samples, two (2) field blanks, two (2) equipment blanks, and two (2) field duplicate samples were analyzed for one or more of the analyses listed above. Table 1 lists the field identifications cross-referenced to laboratory identifications. Table 2 is a summary of qualified data. Tables 3a through 3e summarize field duplicate results.

Analytical Results

The data packages contain a minimum of one quality control batch per analytical method analyzed. The quality control batch identifies the laboratory QC samples that correspond to the designated field samples. Not detected results are reported as less than the value of the method detection limit (MDL).

Preservation and Holding Times

The samples were evaluated for agreement with the chain-of-custody forms. The samples were received in the appropriate containers with the paperwork filled out properly. The laboratory sample condition upon receipt forms indicates all samples were received at a temperature of 2.0°C. All samples were analyzed within the technical holding time. No data were qualified.

Calibrations

Case narratives indicate Initial and continuing calibration verification data were within method acceptance criteria.

Blanks

Laboratory Method Blanks. No contamination was detected in any of the laboratory method blanks.

Field Blanks. Field blanks were analyzed for the full suite of sample analyses and all analytes were not detected with the following exceptions:

SDG 707431

- Manganese was detected in the blank ARK-AP2-EB-03 (0.00207) at a concentration below the laboratory Reporting Limit (RL). Associated sample results less than 10 times the blank concentration have been qualified as estimated with a high bias (J+).

- Boron was detected in the blanks ARK-AP2-EB-03 (0.165), ARK-AP2-EB-04 (0.0565), ARK-AP2-FB-03 (0.0774), and ARK-AP2-FB-04 (0.0321) at concentrations above the RL. Associated sample results less than 10 times the blank concentration have been qualified as estimated with a high bias (J+).

- TDS was detected in the blanks ARK-AP2-FB-03 (4) and ARK-AP2-FB-04 (5) at concentrations below the RL. All associated sample results were reported with results greater than 10 times the blank concentration and therefore no qualification was necessary.

Laboratory Control Samples

Laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) recoveries met the laboratory acceptance criteria for all analyses.

Matrix Spike/Matrix Spike Duplicates

Site-specific MS/MSD precision and accuracy results were within the laboratory acceptance criteria.

Laboratory Duplicates

Appropriate analytical duplicates were analyzed and RPDs were within the laboratory acceptance criteria.

Field Precision

Two sets of field duplicate samples was collected for this sampling event (see Table 3a and b for sample/duplicate identification and precision calculations). The calculated RPDs between sample and duplicate were within the QAPP acceptance criteria of 25% for all analytes detected above five times the RL. For results reported less than five times the RL, with a difference between sample and duplicate less than two times the RL are also considered acceptable (qualified "A*"). All field duplicate precision was considered acceptable.

Summary

The groundwater analytical data are usable for the purpose of determining current concentrations of COCs in this medium at the affected property. A summary of qualified data is presented in Table 2 below.

References:

Amec Foster Wheeler, 2016. Arkwright Field Sampling Plan. October.

United State Environmental Protection Agency (USEPA), 2020. National Functional Guidelines for

Superfund Inorganic Methods Data Review. November.

Table 1 – Cross-Reference between Laboratory and Field Identifications

Field Identification	Laboratory Identification	SDG	Analyses	Sample Date
ARK-ARGWA-19	707431001	707431	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 09:26
ARK-ARGWA-20	707431002	707431	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 12:40
ARK-ARGWC-21	707431003	707431	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 17:40
ARK-ARGWC-22	707431004	707431	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 15:50
ARK-ARGWC-23	707431005	707431	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 11:20
ARK-ARAMW-1	707431006	707431	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 13:55
ARK-ARAMW-2	707431007	707431	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 16:10
ARK-ARAMW-7	707431008	707431	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 18:35
ARK-ARAMW-8	707431009	707431	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 14:20
ARK-ARAMW-9	707431010	707431	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 17:15
ARK-ARAMW-10	707431011	707431	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 13:30
ARK-ARAMW-11	707431012	707431	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 15:20
ARK-AP2-EB-03	707431013	707431	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 16:15
ARK-AP2-EB-04	707431014	707431	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 15:20
ARK-AP2-FD-03	707431015	707431	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 12:00
ARK-AP2-FD-04	707431016	707431	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 12:00
ARK-AP2-FB-03	707431017	707431	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 17:40
ARK-AP2-FB-04	707431018	707431	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 17:15
ARK-ARGWA-19	707433001	707433	903.1, 904	02/04/25 09:26
ARK-ARGWA-20	707433002	707433	903.1, 904	02/04/25 12:40
ARK-ARGWC-21	707433003	707433	903.1, 904	02/04/25 17:40
ARK-ARGWC-22	707433004	707433	903.1, 904	02/04/25 15:50
ARK-ARGWC-23	707433005	707433	903.1, 904	02/04/25 11:20

Field Identification	Laboratory Identification	SDG	Analyses	Sample Date
ARK-ARAMW-1	707433006	707433	903.1, 904	02/04/25 13:55
ARK-ARAMW-2	707433007	707433	903.1, 904	02/04/25 16:10
ARK-ARAMW-7	707433008	707433	903.1, 904	02/04/25 18:35
ARK-ARAMW-8	707433009	707433	903.1, 904	02/04/25 14:20
ARK-ARAMW-9	707433010	707433	903.1, 904	02/04/25 17:15
ARK-ARAMW-10	707433011	707433	903.1, 904	02/04/25 13:30
ARK-ARAMW-11	707433012	707433	903.1, 904	02/04/25 15:20
ARK-AP2-EB-03	707433013	707433	903.1, 904	02/04/25 16:15
ARK-AP2-EB-04	707433014	707433	903.1, 904	02/04/25 15:20
ARK-AP2-FD-03	707433015	707433	903.1, 904	02/04/25 12:00
ARK-AP2-FD-04	707433016	707433	903.1, 904	02/04/25 12:00
ARK-AP2-FB-03	707433017	707433	903.1, 904	02/04/25 17:40
ARK-AP2-FB-04	707433018	707433	903.1, 904	02/04/25 17:15
ARK-ARGWA-19	707434001	707434	6020B (D) (Mg, Fe)	02/04/25 09:26
ARK-ARGWA-20	707434002	707434	7470, 6020B (D) (Full list)	02/04/25 12:40
ARK-ARGWC-21	707434003	707434	6020B (D) (Mg, Fe)	02/04/25 17:40
ARK-ARGWC-22	707434004	707434	6020B (D) (Mg, Fe)	02/04/25 15:50
ARK-ARGWC-23	707434005	707434	6020B (D) (Mg, Fe)	02/04/25 11:20
ARK-ARAMW-1	707434006	707434	6020B (D) (Mg, Fe)	02/04/25 13:55
ARK-ARAMW-2	707434007	707434	6020B (D) (Mg, Fe)	02/04/25 16:10
ARK-ARAMW-7	707434008	707434	6020B (D) (Mg, Fe)	02/04/25 18:35
ARK-ARAMW-8	707434009	707434	6020B (D) (Mg, Fe)	02/04/25 14:20
ARK-ARAMW-9	707434010	707434	6020B (D) (Mg, Fe)	02/04/25 17:15
ARK-ARAMW-10	707434011	707434	6020B (D) (Mg, Fe)	02/04/25 13:30
ARK-ARAMW-11	707434012	707434	6020B (D) (Mg, Fe)	02/04/25 15:20

Table 2 – Qualified Analytical Data

Field Identification	Analyte	Qualification / Code	Reason for Qualification
ARK-ARAMW-1	Boron	J+ / BFH	Detected in FB
ARK-ARAMW-2	Boron	J+ / BFH	Detected in FB
ARK-ARAMW-8	Boron	J+ / BFH	Detected in FB
ARK-ARAMW-9	Boron	J+ / BFH	Detected in FB
ARK-ARGWA-19	Boron	J+ / BFH	Detected in FB
ARK-ARGWA-20	Boron	J+ / BFH	Detected in FB
ARK-ARGWC-21	Boron	J+ / BFH	Detected in FB
ARK-ARGWC-22	Boron	J+ / BFH	Detected in FB
ARK-ARGWC-23	Boron	J+ / BFH	Detected in FB
ARK-ARGWA-20	Manganese	J+ / BFL	Detected in FB

BFH – Blank Field High – detected in the field blank (FB) above the RL
FD2 - Field duplicate absolute difference does not meet quality control criteria
J – estimated result
J+ – The analyte was detected in an associated blank; estimated data with a high bias

Table 3a – Field Precision

Field Identification	Analyte	Sample Result (mg/L)	Duplicate Result (mg/L)	RPD[a]	Qualified
ARK-ARGWC-23/ ARK-AP2-FD-03	Chloride	3.55	3.54	0.3%	A
	Fluoride	0.286	0.275	<5*RL, <2*RL	A*
	Sulfate	77.6	78.2	0.8%	A
	Boron	0.485	0.478	<5*RL, <2*RL	A*
	Barium	0.118 J	0.111 J	<5*RL, <2*RL	A*
	Calcium	75.2	73.7	2.0%	A
	Cobalt	0.000489 J	0.000514 J	<5*RL, <2*RL	A*
	Lithium	0.0428	0.0421	<5*RL, <2*RL	A*
	Magnesium	13.2	13.6	3.0%	A
	Molybdenum	0.0548 J	0.0535 J	<5*RL, <2*RL	A*
	Sodium	15.5	15.8	1.9%	A
	Potassium	2.19	2.18	0.5%	A
	Manganese	0.0954	0.0994	<5*RL, <2*RL	A*
	TDS	320	311	2.9%	A
	Total Alkalinity	176	176	0.0%	A
	Bicarbonate	176	176	0.0%	A

[a] RPD = ((SR - DR)*200)/(SR + DR)
A - Acceptable Data.
A* - Acceptable data where results were less than 5X the RDL and the difference between sample and duplicate was less than 2X the RDL.

Table 3b – Field Precision

Field Identification	Analyte	Sample Result (mg/L)	Duplicate Result (mg/L)	RPD[a]	Qualified
ARK-ARGWC-21/ ARK-AP2-FD-04	Chloride	3.29	3.3	0.3%	A
	Fluoride	0.131	0.127	<5*RL, <2*RL	A*
	Sulfate	216	226	4.5%	A
	Boron	1.31	1.23	<5*RL, <2*RL	A*
	Barium	0.0492 J	0.0473 J	<5*RL, <2*RL	A*
	Calcium	85.1	80.3	5.8%	A
	Cobalt	0.000632 J	0.000665 J	<5*RL, <2*RL	A*
	Lithium	0.0123 J	0.0118 J	<5*RL, <2*RL	A*
	Iron	0.803	0.745	7.5%	A
	Magnesium	39.7	36.9	7.3%	A
	Sodium	22.1	20.5	7.5%	A
	Potassium	5.97	5.73	4.1%	A
	Aluminum	0.0257 J	0.0193 U	<5*RL, <2*RL	A*
	Manganese	0.366	0.311	16.2%	A
	TDS	534	506	5.4%	A
	Total Alkalinity	158	160	1.3%	A
	Bicarbonate	158	160	1.3%	A

[a] RPD = ((SR - DR)*200)/(SR + DR)
A - Acceptable Data.
A* - Acceptable data where results were less than 5X the RDL and the difference between sample and duplicate was less than

2X the RDL.

Appendix C
Statistical Analyses

GROUNDWATER STATS CONSULTING

February 28, 2025

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Arkwright Ash Pond 2/Dry Ash Stockpile
August 2024 Semi-Annual Sample Event

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2024 Semi-Annual Groundwater Monitoring Detection and Assessment statistical analysis of monitoring data for Georgia Power Company's Plant Arkwright Ash Pond 2/Dry Ash Stockpile. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Semi-annual sampling is conducted for USEPA's Coal Combustion Residuals (CCR) Appendix III and IV parameters, in addition to Appendix I parameters, in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** ARGWA-19 and ARGWA-20
- **Downgradient wells:** ARGWC-21, ARGWC-22, and ARGWC-23
- **Assessment wells:** ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, and ARAMW-9

Assessment wells ARAMW-1 and ARAMW-2 were installed in 2019; wells ARAMW-7 and ARAMW-8 were installed in 2020; and well ARAMW-9 was installed in 2022 and first sampled in January 2023. All Assessment wells have a minimum of 4 samples and are, therefore, evaluated using confidence intervals for Appendix I and IV constituents.

Assessment wells do not require statistical analyses for Appendix I and III Detection monitoring constituents.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager for Groundwater Stats Consulting.

The CCR program consists of the following constituents:

- **Georgia EPD Appendix I:** arsenic, barium, cadmium, lead, selenium, and silver
- **CCR Appendix III:** boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)
- **CCR Appendix IV:** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lithium, lead, mercury, molybdenum, selenium, and thallium

Downgradient well data for Appendix I constituents were analyzed using interwell prediction limits and confidence intervals; downgradient well data for Appendix III constituents were analyzed using interwell prediction limits; and downgradient well data for Appendix IV were analyzed using confidence intervals. Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. Summaries of well/constituent pairs containing 100% non-detects for Appendix I Detection monitoring constituents at downgradient wells and for Appendix I and IV Assessment monitoring constituents at downgradient and assessment wells follow this letter. For all constituents, a substitution of the most recent reporting limit is used for non-detect data.

Time series plots for all well/constituent pairs are provided and are particularly useful for screening parameters detected in downgradient wells which require statistical analyses (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Based on the previous screening described below, 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 are recommended. Power curves were previously provided to demonstrate that

the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division 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. Power curves were based on the following:

Georgia EPD Appendix I Constituents:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan (all parameters)
- # Constituents: 5 (cadmium is 100% non-detect in downgradient wells)
- # Downgradient wells: 3

CCR Appendix III Constituents:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan (all parameters)
- # Constituents: 7
- # Downgradient wells: 3

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 parametric limits is based on an annual 10% (5% per semi-annual event) as recommend 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, the earlier portion of data may require deselection prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening – Conducted in 2019

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 wells ARGWA-19, ARGWA-20, and ARGWC-21 for Appendix I, 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. Outliers were flagged in downgradient wells, though there are no intrawell statistical analyses in the current report. This improves the estimate of downgradient confidence intervals and provides for possible future application of intrawell statistics. As noted below, current values that could result in exceedances were not flagged.

When the most recent values are identified as outliers in upgradient wells, those values are typically not flagged in the database (except in cases where they would cause background limits to be elevated) as they may represent a possible trend in an upgradient well. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers. Due to changing reporting limits, when non-detects are replaced with the most recent reporting limit, previously flagged "J" values (or

estimated values) may be flagged as outliers if they are much higher than current reporting limits.

Additionally, when any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. A summary of flagged values is included in Figure C.

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 may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at wells ARGWA-19, ARGWA-20, and ARGWC-21 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 results of the trend analyses were included with the previous screenings and showed a few statistically significant trends, both increasing and decreasing. No adjustments to the background period were made because the overall changes were relatively small. Since intrawell tests are not used in this current analysis, the background levels are not affected by trends in downgradient wells.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified significant differences among upgradient well data for several constituents. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix I and Appendix III constituents in accordance with Georgia EPD requirements.

Prediction Limit Analysis of Appendix I & III Parameters – August 2024

All Appendix I and III parameters are analyzed using interwell prediction limits. Upgradient well data were reassessed for potential outliers during this analysis using visual screening. No additional values were flagged and previously flagged values were confirmed. A summary of flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through August 2024 for Appendix I and III constituents (Figures D & E, respectively). As mentioned above, downgradient wells containing 100% non-detects did not require statistical analyses. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August 2024 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; therefore, no exceedance is noted, and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Summary tables and graphical results for the interwell prediction limits for Appendix I and III constituents limits follow this letter. No exceedances were identified for Appendix I well/constituent pairs. The following exceedances were identified for Appendix III well/constituent pairs:

- Boron: ARGWC-21, ARGWC-22, and ARGWC-23
- Calcium: ARGWC-21, ARGWC-22, and ARGWC-23
- Fluoride: ARGWC-23
- pH (upper limit): ARGWC-21 and ARGWC-23
- Sulfate: ARGWC-21, ARGWC-22, and ARGWC-23
- TDS ARGWC-21, ARGWC-22, and ARGWC-23

Trend Tests – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure F). 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. Upgradient trends are an indication of variability in groundwater quality unrelated to practices at the site. Both a summary and graphical display of the trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: ARGWC-21
- Calcium: ARGWA-20 (upgradient) and ARGWC-21
- Fluoride: ARGWC-23
- Sulfate: ARGWC-21
- TDS: ARGWC-21

Decreasing:

- Sulfate: ARGWA-19 (upgradient)
- TDS: ARGWA-19 (upgradient)

Confidence Interval Analysis of Appendix I & IV Parameters – August 2024

For Appendix I and IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Downgradient well/constituent pairs containing 100% non-detects do not require analysis. Data from upgradient wells for Appendix I and IV parameters are reassessed for outliers during each analysis. No additional values were flagged and previously flagged values were confirmed. A summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through August 2024 for Appendix I and IV constituents (Figure G). Parametric tolerance limits are used 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, nonparametric 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 I and IV constituents for this sample event (Figure H).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed when a minimum of 4 samples was available using data since 2016 for each of the Appendix I and IV constituents in accordance with the state requirements in each downgradient well (Figure I). The Sanitas software was used to calculate the confidence intervals, either parametric or nonparametric, depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the 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 samples available.

Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. In the event of a confidence interval exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Note that due to a statistically significant increasing trend for lithium at downgradient well ARGWC-23 and more recent data are reported at or above the GWPS, only the most recent 8 observations were used to construct a confidence interval on stable, non-trending data (USEPA Unified Guidance, 2009, Chapter 7). A summary of the confidence intervals follows this letter. Confidence interval exceedances were identified for the following well/constituent pairs:

- Cobalt: ARAMW-7
- Lithium: ARAMW-7 and ARGWC-23
- Molybdenum: ARAMW-8

Trend Test Evaluation – Appendix IV

Assessment monitoring well/constituent pairs identified with confidence interval exceedances (which evaluate the average concentration of a group of measurements) are further evaluated using the Sen's Slope/Mann-Kendall trend test using 95% confidence (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. The following statistically significant trend was identified:

Increasing

- Lithium: ARGWC-23
- Molybdenum: ARAMW-8

Decreasing

- Molybdenum: ARGWA-19 (upgradient)

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Arkwright Ash Pond 2/Dry Ash Stockpile. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Kristina Rayner
Senior Statistician

Andrew Collins
Project Manager

Date Ranges

Date: 9/27/2024 2:56 PM

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Lithium (mg/L)

ARGWC-23 overall:2/10/2021-8/20/2024

100% Non-Detects - Appendix I Detection Monitoring

Analysis Run 9/26/2024 11:41 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Cadmium (mg/L)
ARGWC-21, ARGWC-22, ARGWC-23

Selenium (mg/L)
ARGWC-21, ARGWC-23

Silver (mg/L)
ARGWC-22, ARGWC-23

100% Non-Detects - Appendix I and IV

Analysis Run 9/27/2024 3:01 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Antimony (mg/L)
ARAMW-1, ARAMW-2, ARAMW-7, ARGWC-21, ARGWC-22, ARGWC-23

Arsenic (mg/L)
ARAMW-9

Beryllium (mg/L)
ARAMW-1, ARAMW-2, ARAMW-8, ARGWC-21, ARAMW-9

Cadmium (mg/L)
ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, ARGWC-21, ARGWC-22, ARGWC-23, ARAMW-9

Chromium (mg/L)
ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, ARGWC-23, ARAMW-9

Cobalt (mg/L)
ARAMW-9

Lead (mg/L)
ARAMW-1, ARAMW-2, ARAMW-8, ARAMW-9

Mercury (mg/L)
ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, ARGWC-23, ARAMW-9

Molybdenum (mg/L)
ARGWC-21

Selenium (mg/L)
ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, ARGWC-21, ARGWC-23, ARAMW-9

Silver (mg/L)
ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, ARGWC-22, ARGWC-23, ARAMW-9

Thallium (mg/L)
ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, ARGWC-21, ARAMW-9

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

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/26/2024, 11:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	ARGWC-21	0.005	n/a	8/20/2024	0.005ND	No	72	n/a	n/a	87.5	n/a	n/a	0.0003715	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-22	0.005	n/a	8/20/2024	0.005ND	No	72	n/a	n/a	87.5	n/a	n/a	0.0003715	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-23	0.005	n/a	8/20/2024	0.005ND	No	72	n/a	n/a	87.5	n/a	n/a	0.0003715	NP Inter (NDs) 1 of 2
Barium (mg/L)	ARGWC-21	0.107	n/a	8/20/2024	0.0431	No	72	n/a	n/a	0	n/a	n/a	0.0003715	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-22	0.107	n/a	8/20/2024	0.0223	No	72	n/a	n/a	0	n/a	n/a	0.0003715	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-23	0.107	n/a	8/20/2024	0.105	No	72	n/a	n/a	0	n/a	n/a	0.0003715	NP Inter (normality) 1 of 2
Lead (mg/L)	ARGWC-21	0.002	n/a	8/20/2024	0.002ND	No	72	n/a	n/a	87.5	n/a	n/a	0.0003715	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-22	0.002	n/a	8/20/2024	0.002ND	No	72	n/a	n/a	87.5	n/a	n/a	0.0003715	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-23	0.002	n/a	8/20/2024	0.002ND	No	72	n/a	n/a	87.5	n/a	n/a	0.0003715	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-22	0.005	n/a	8/20/2024	0.005ND	No	71	n/a	n/a	67.61	n/a	n/a	0.0003804	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-21	0.001	n/a	8/20/2024	0.001ND	No	62	n/a	n/a	91.94	n/a	n/a	0.0004981	NP Inter (NDs) 1 of 2

Appendix III Interwell Prediction Limits - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/26/2024, 11:48 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	ARGWC-21	0.092	n/a	8/20/2024	1.13	Yes	42	n/a	n/a	26.19	n/a	n/a	0.001066	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-22	0.092	n/a	8/20/2024	3.09	Yes	42	n/a	n/a	26.19	n/a	n/a	0.001066	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-23	0.092	n/a	8/20/2024	0.434	Yes	42	n/a	n/a	26.19	n/a	n/a	0.001066	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-21	13.81	n/a	8/20/2024	78	Yes	42	3.215	0.2873	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Calcium (mg/L)	ARGWC-22	13.81	n/a	8/20/2024	194	Yes	42	3.215	0.2873	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Calcium (mg/L)	ARGWC-23	13.81	n/a	8/20/2024	79.6	Yes	42	3.215	0.2873	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Fluoride (mg/L)	ARGWC-23	0.148	n/a	8/20/2024	0.365	Yes	46	n/a	n/a	41.3	n/a	n/a	0.0009064	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-21	6.086	5.41	8/20/2024	6.2	Yes	45	5.748	0.1948	0	None	No	0.001253	Param Inter 1 of 2
pH (SU)	ARGWC-23	6.086	5.41	8/20/2024	6.34	Yes	45	5.748	0.1948	0	None	No	0.001253	Param Inter 1 of 2
Sulfate (mg/L)	ARGWC-21	21	n/a	8/20/2024	219	Yes	67	n/a	n/a	0	n/a	n/a	0.0004301	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-22	21	n/a	8/20/2024	674	Yes	67	n/a	n/a	0	n/a	n/a	0.0004301	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-23	21	n/a	8/20/2024	80.1	Yes	67	n/a	n/a	0	n/a	n/a	0.0004301	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-21	141.1	n/a	8/20/2024	520	Yes	40	104.7	20.82	0	None	No	0.002505	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-22	141.1	n/a	8/20/2024	1180	Yes	40	104.7	20.82	0	None	No	0.002505	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-23	141.1	n/a	8/20/2024	328	Yes	40	104.7	20.82	0	None	No	0.002505	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/26/2024, 11:48 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**ARGWC-21**	**0.092**	**n/a**	**8/20/2024**	**1.13**	**Yes**	**42**	**n/a**	**n/a**	**26.19**	**n/a**	**n/a**	**0.001066**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**ARGWC-22**	**0.092**	**n/a**	**8/20/2024**	**3.09**	**Yes**	**42**	**n/a**	**n/a**	**26.19**	**n/a**	**n/a**	**0.001066**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**ARGWC-23**	**0.092**	**n/a**	**8/20/2024**	**0.434**	**Yes**	**42**	**n/a**	**n/a**	**26.19**	**n/a**	**n/a**	**0.001066**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**ARGWC-21**	**13.81**	**n/a**	**8/20/2024**	**78**	**Yes**	**42**	**3.215**	**0.2873**	**0**	**None**	**sqrt(x)**	**0.002505**	**Param Inter 1 of 2**
Calcium (mg/L)	**ARGWC-22**	**13.81**	**n/a**	**8/20/2024**	**194**	**Yes**	**42**	**3.215**	**0.2873**	**0**	**None**	**sqrt(x)**	**0.002505**	**Param Inter 1 of 2**
Calcium (mg/L)	**ARGWC-23**	**13.81**	**n/a**	**8/20/2024**	**79.6**	**Yes**	**42**	**3.215**	**0.2873**	**0**	**None**	**sqrt(x)**	**0.002505**	**Param Inter 1 of 2**
Chloride (mg/L)	ARGWC-21	16.2	n/a	8/20/2024	3.18	No	68	n/a	n/a	0	n/a	n/a	0.0004166	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-22	16.2	n/a	8/20/2024	7.25	No	68	n/a	n/a	0	n/a	n/a	0.0004166	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-23	16.2	n/a	8/20/2024	3.68	No	68	n/a	n/a	0	n/a	n/a	0.0004166	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-21	0.148	n/a	8/20/2024	0.124	No	46	n/a	n/a	41.3	n/a	n/a	0.0009064	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-22	0.148	n/a	8/20/2024	0.066J	No	46	n/a	n/a	41.3	n/a	n/a	0.0009064	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**ARGWC-23**	**0.148**	**n/a**	**8/20/2024**	**0.365**	**Yes**	**46**	**n/a**	**n/a**	**41.3**	**n/a**	**n/a**	**0.0009064**	**NP Inter (normality) 1 of 2**
pH (SU)	**ARGWC-21**	**6.086**	**5.41**	**8/20/2024**	**6.2**	**Yes**	**45**	**5.748**	**0.1948**	**0**	**None**	**No**	**0.001253**	**Param Inter 1 of 2**
pH (SU)	ARGWC-22	6.086	5.41	8/20/2024	5.76	No	45	5.748	0.1948	0	None	No	0.001253	Param Inter 1 of 2
pH (SU)	**ARGWC-23**	**6.086**	**5.41**	**8/20/2024**	**6.34**	**Yes**	**45**	**5.748**	**0.1948**	**0**	**None**	**No**	**0.001253**	**Param Inter 1 of 2**
Sulfate (mg/L)	**ARGWC-21**	**21**	**n/a**	**8/20/2024**	**219**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004301**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**ARGWC-22**	**21**	**n/a**	**8/20/2024**	**674**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004301**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**ARGWC-23**	**21**	**n/a**	**8/20/2024**	**80.1**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004301**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**ARGWC-21**	**141.1**	**n/a**	**8/20/2024**	**520**	**Yes**	**40**	**104.7**	**20.82**	**0**	**None**	**No**	**0.002505**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**ARGWC-22**	**141.1**	**n/a**	**8/20/2024**	**1180**	**Yes**	**40**	**104.7**	**20.82**	**0**	**None**	**No**	**0.002505**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**ARGWC-23**	**141.1**	**n/a**	**8/20/2024**	**328**	**Yes**	**40**	**104.7**	**20.82**	**0**	**None**	**No**	**0.002505**	**Param Inter 1 of 2**

Appendix III Trend Test - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/26/2024, 11:53 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Boron (mg/L)	**ARGWC-21**	**0.07619**	**175**	**87**	**Yes**	**21**	**0**	**0.01**	**NP**
Calcium (mg/L)	**ARGWA-20 (bg)**	**0.2776**	**95**	**87**	**Yes**	**21**	**0**	**0.01**	**NP**
Calcium (mg/L)	**ARGWC-21**	**4.91**	**160**	**87**	**Yes**	**21**	**0**	**0.01**	**NP**
Fluoride (mg/L)	**ARGWC-23**	**0.08957**	**105**	**74**	**Yes**	**19**	**0**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWA-19 (bg)**	**-0.2378**	**-276**	**-176**	**Yes**	**34**	**0**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWC-21**	**8.192**	**422**	**176**	**Yes**	**34**	**0**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**ARGWA-19 (bg)**	**-5.289**	**-84**	**-81**	**Yes**	**20**	**0**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**ARGWC-21**	**27.93**	**146**	**81**	**Yes**	**20**	**0**	**0.01**	**NP**

Appendix III Trend Test - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/26/2024, 11:53 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Boron (mg/L)	ARGWA-19 (bg)	0	-2	-87	No	21	33.33	0.01	NP
Boron (mg/L)	ARGWA-20 (bg)	0.003024	58	87	No	21	19.05	0.01	NP
Boron (mg/L)	**ARGWC-21**	**0.07619**	**175**	**87**	**Yes**	**21**	**0**	**0.01**	**NP**
Boron (mg/L)	ARGWC-22	0.07412	41	74	No	19	0	0.01	NP
Boron (mg/L)	ARGWC-23	0.007449	32	74	No	19	0	0.01	NP
Calcium (mg/L)	ARGWA-19 (bg)	-0.4657	-75	-87	No	21	0	0.01	NP
Calcium (mg/L)	**ARGWA-20 (bg)**	**0.2776**	**95**	**87**	**Yes**	**21**	**0**	**0.01**	**NP**
Calcium (mg/L)	**ARGWC-21**	**4.91**	**160**	**87**	**Yes**	**21**	**0**	**0.01**	**NP**
Calcium (mg/L)	ARGWC-22	0	-2	-74	No	19	0	0.01	NP
Calcium (mg/L)	ARGWC-23	2.173	69	74	No	19	0	0.01	NP
Fluoride (mg/L)	ARGWA-19 (bg)	0	21	98	No	23	34.78	0.01	NP
Fluoride (mg/L)	ARGWA-20 (bg)	0	-2	-98	No	23	47.83	0.01	NP
Fluoride (mg/L)	**ARGWC-23**	**0.08957**	**105**	**74**	**Yes**	**19**	**0**	**0.01**	**NP**
pH (SU)	ARGWA-19 (bg)	0.008207	32	92	No	22	0	0.01	NP
pH (SU)	ARGWA-20 (bg)	0.0127	41	98	No	23	0	0.01	NP
pH (SU)	ARGWC-21	-0.01714	-50	-98	No	23	0	0.01	NP
pH (SU)	ARGWC-23	-0.005069	-8	-74	No	19	0	0.01	NP
Sulfate (mg/L)	**ARGWA-19 (bg)**	**-0.2378**	**-276**	**-176**	**Yes**	**34**	**0**	**0.01**	**NP**
Sulfate (mg/L)	ARGWA-20 (bg)	-0.03643	-70	-167	No	33	0	0.01	NP
Sulfate (mg/L)	**ARGWC-21**	**8.192**	**422**	**176**	**Yes**	**34**	**0**	**0.01**	**NP**
Sulfate (mg/L)	ARGWC-22	-17.79	-32	-74	No	19	0	0.01	NP
Sulfate (mg/L)	ARGWC-23	2.748	49	74	No	19	0	0.01	NP
Total Dissolved Solids (mg/L)	**ARGWA-19 (bg)**	**-5.289**	**-84**	**-81**	**Yes**	**20**	**0**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	ARGWA-20 (bg)	0.2883	24	81	No	20	0	0.01	NP
Total Dissolved Solids (mg/L)	**ARGWC-21**	**27.93**	**146**	**81**	**Yes**	**20**	**0**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	ARGWC-22	-27.81	-60	-68	No	18	0	0.01	NP
Total Dissolved Solids (mg/L)	ARGWC-23	1.889	23	68	No	18	0	0.01	NP

Upper Tolerance Limits

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/26/2024, 12:01 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	34	100	n/a	0.1748	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	72	87.5	n/a	0.02489	NP Inter(NDs)
Barium (mg/L)	n/a	0.107	n/a	n/a	n/a	72	0	n/a	0.02489	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	38	92.11	n/a	0.1424	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.001	n/a	n/a	n/a	70	98.57	n/a	0.02758	NP Inter(NDs)
Chromium (mg/L)	n/a	0.01	n/a	n/a	n/a	42	26.19	n/a	0.116	NP Inter(normality)
Cobalt (mg/L)	n/a	0.001	n/a	n/a	n/a	44	68.18	n/a	0.1047	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	2.65	n/a	n/a	n/a	42	2.381	n/a	0.116	NP Inter(normality)
Fluoride (mg/L)	n/a	0.148	n/a	n/a	n/a	46	41.3	n/a	0.09447	NP Inter(normality)
Lead (mg/L)	n/a	0.002	n/a	n/a	n/a	72	87.5	n/a	0.02489	NP Inter(NDs)
Lithium (mg/L)	n/a	0.013	n/a	n/a	n/a	44	43.18	n/a	0.1047	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	34	94.12	n/a	0.1748	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.001	n/a	n/a	n/a	40	82.5	n/a	0.1285	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	71	67.61	n/a	0.0262	NP Inter(NDs)
Silver (mg/L)	n/a	0.001	n/a	n/a	n/a	62	91.94	n/a	0.04158	NP Inter(NDs)
Thallium (mg/L)	n/a	0.002	n/a	n/a	n/a	34	97.06	n/a	0.1748	NP Inter(NDs)

PLANT ARKWRIGHT AP #2 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		0.005	0.01
Barium, Total (mg/L)	2		0.11	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.001	0.006
Combined Radium, Total (pCi/L)	5		2.65	5
Fluoride, Total (mg/L)	4		0.15	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.013	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.001	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Silver, Total (mg/L)	n/a		0.001	0.001
Thallium, Total (mg/L)	0.002		0.002	0.002

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

**CCR = Coal Combustion Residuals*

Confidence Interval Summary Table - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/30/2024, 1:44 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	**ARAMW-7**	**0.07537**	**0.04752**	**0.006**	**Yes**	**9**	**0.05887**	**0.02163**	**0**	**None**	**x^3**	**0.01**	**Param.**
Lithium (mg/L)	**ARAMW-7**	**0.0779**	**0.0577**	**0.04**	**Yes**	**9**	**0.06306**	**0.006339**	**0**	**None**	**No**	**0.002**	**NP (normality)**
Lithium (mg/L)	**ARGWC-23**	**0.05532**	**0.04518**	**0.04**	**Yes**	**8**	**0.05025**	**0.00478**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	**ARAMW-8**	**0.2005**	**0.1024**	**0.1**	**Yes**	**9**	**0.1479**	**0.06261**	**0**	**None**	**x^2**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/30/2024, 1:44 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	ARAMW-8	0.003	0.00134	0.006	No	7	0.002763	0.0006274	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	ARAMW-9	0.001904	0.0007461	0.006	No	4	0.002163	0.0009892	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	ARAMW-1	0.005	0.005	0.01	No	10	0.004733	0.0008443	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	ARAMW-2	0.03334	0.004106	0.01	No	10	0.02008	0.02536	0	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	ARAMW-7	0.005	0.00035	0.01	No	8	0.003269	0.002007	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	ARAMW-8	0.005	0.00031	0.01	No	8	0.003479	0.002163	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	ARGWC-21	0.005	0.0019	0.01	No	23	0.003027	0.001674	39.13	None	No	0.01	NP (normality)
Arsenic (mg/L)	ARGWC-22	0.005	0.00221	0.01	No	18	0.004092	0.001787	77.78	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-23	0.005	0.00075	0.01	No	18	0.004248	0.001731	83.33	None	No	0.01	NP (NDs)
Barium (mg/L)	ARAMW-1	0.05151	0.04251	2	No	10	0.04701	0.005048	0	None	No	0.01	Param.
Barium (mg/L)	ARAMW-2	0.1083	0.06061	2	No	10	0.08467	0.02857	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	ARAMW-7	0.03217	0.02428	2	No	8	0.02818	0.004008	0	None	ln(x)	0.01	Param.
Barium (mg/L)	ARAMW-8	0.1173	0.0939	2	No	8	0.1056	0.01106	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-21	0.12	0.045	2	No	23	0.08066	0.03529	0	None	No	0.01	NP (normality)
Barium (mg/L)	ARGWC-22	0.04571	0.02815	2	No	18	0.0381	0.01609	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	ARGWC-23	0.1437	0.09733	2	No	18	0.1205	0.03829	0	None	No	0.01	Param.
Barium (mg/L)	ARAMW-9	0.02495	0.004949	2	No	4	0.01495	0.004405	0	None	No	0.01	Param.
Beryllium (mg/L)	ARAMW-7	0.0025	0.000236	0.004	No	8	0.001125	0.001139	37.5	None	No	0.004	NP (normality)
Beryllium (mg/L)	ARGWC-22	0.0005	0.00036	0.004	No	17	0.0004388	0.0001192	70.59	None	No	0.01	NP (NDs)
Beryllium (mg/L)	ARGWC-23	0.0005	0.00033	0.004	No	17	0.00049	0.00004123	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	ARGWC-21	0.01	0.0017	0.1	No	21	0.009605	0.001811	95.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	ARGWC-22	0.01	0.0048	0.1	No	18	0.009711	0.001226	94.44	None	No	0.01	NP (NDs)
Cobalt (mg/L)	ARAMW-1	0.0008499	0.0004085	0.006	No	11	0.0006354	0.0002714	9.091	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	ARAMW-2	0.002936	0.002064	0.006	No	11	0.0025	0.0005235	0	None	No	0.01	Param.
Cobalt (mg/L)	**ARAMW-7**	**0.07537**	**0.04752**	**0.006**	**Yes**	**9**	**0.05887**	**0.02163**	**0**	**None**	**x^3**	**0.01**	**Param.**
Cobalt (mg/L)	ARAMW-8	0.005031	0.002407	0.006	No	9	0.003719	0.001359	0	None	No	0.01	Param.
Cobalt (mg/L)	ARGWC-21	0.0018	0.0007	0.006	No	22	0.001279	0.0005844	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	ARGWC-22	0.00766	0.002677	0.006	No	19	0.005733	0.00496	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	ARGWC-23	0.001791	0.0007307	0.006	No	19	0.00153	0.001291	5.263	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-1	4.227	0.4887	5	No	10	2.418	2.732	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-2	5.492	2.154	5	No	10	3.879	2.411	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-7	5.122	3.943	5	No	8	4.533	0.5562	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-8	2.547	0.1616	5	No	8	1.275	1.233	12.5	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-21	1.349	0.608	5	No	21	1.219	1.204	4.762	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-22	1.169	0.4018	5	No	18	0.8644	0.7312	5.556	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-23	0.9762	0.1958	5	No	18	0.7036	0.8296	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-9	5.909	-0.8624	5	No	4	2.523	1.491	0	None	No	0.01	Param.
Fluoride (mg/L)	ARAMW-1	0.2184	0.1645	4	No	11	0.1915	0.03238	0	None	No	0.01	Param.
Fluoride (mg/L)	ARAMW-2	0.1417	0.08199	4	No	11	0.1118	0.0358	9.091	None	No	0.01	Param.
Fluoride (mg/L)	ARAMW-7	0.1031	0.03332	4	No	9	0.08711	0.03443	33.33	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	ARAMW-8	0.2498	0.1705	4	No	9	0.2101	0.04107	0	None	No	0.01	Param.
Fluoride (mg/L)	ARGWC-21	0.1557	0.09039	4	No	23	0.138	0.1027	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	ARGWC-22	0.134	0.045	4	No	19	0.08105	0.05799	15.79	None	No	0.01	NP (normality)
Fluoride (mg/L)	ARGWC-23	0.3682	0.2266	4	No	19	0.2974	0.1209	0	None	No	0.01	Param.
Fluoride (mg/L)	ARAMW-9	1.042	0.7759	4	No	4	0.9088	0.05851	0	None	No	0.01	Param.
Lead (mg/L)	ARAMW-7	0.002	0.00013	0.015	No	8	0.001766	0.0006611	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	ARGWC-21	0.002	0.00026	0.015	No	23	0.001844	0.0005174	91.3	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-22	0.002	0.00022	0.015	No	18	0.001798	0.0005887	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-23	0.002	0.00026	0.015	No	18	0.001802	0.0005758	88.89	None	No	0.01	NP (NDs)
Lithium (mg/L)	ARAMW-1	0.009982	0.008532	0.04	No	12	0.009236	0.0009998	0	None	x^2	0.01	Param.
Lithium (mg/L)	ARAMW-2	0.036	0.0172	0.04	No	12	0.0267	0.01943	0	None	No	0.01	NP (normality)
Lithium (mg/L)	**ARAMW-7**	**0.0779**	**0.0577**	**0.04**	**Yes**	**9**	**0.06306**	**0.006339**	**0**	**None**	**No**	**0.002**	**NP (normality)**
Lithium (mg/L)	ARAMW-8	0.006662	0.005466	0.04	No	9	0.00605	0.0007237	0	None	x^3	0.01	Param.
Lithium (mg/L)	ARGWC-21	0.01221	0.009968	0.04	No	22	0.01109	0.002084	0	None	No	0.01	Param.
Lithium (mg/L)	ARGWC-22	0.02372	0.01529	0.04	No	19	0.01951	0.007205	0	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/30/2024, 1:44 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	**ARGWC-23**	**0.05532**	**0.04518**	**0.04**	**Yes**	**8**	**0.05025**	**0.00478**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	ARAMW-9	0.01179	0	0.04	No	4	0.007975	0.002264	0	None	x^2	0.01	Param.
Mercury (mg/L)	ARGWC-21	0.0002	0.000073	0.002	No	17	0.0001925	0.0000308	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	ARGWC-22	0.000372	0.0002	0.002	No	15	0.0002115	0.00004441	93.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	ARAMW-1	0.008455	0.005284	0.1	No	11	0.006869	0.001903	0	None	No	0.01	Param.
Molybdenum (mg/L)	ARAMW-2	0.015	0.000585	0.1	No	11	0.007281	0.007394	45.45	None	No	0.006	NP (normality)
Molybdenum (mg/L)	ARAMW-7	0.0012	0.000257	0.1	No	9	0.0008707	0.0003215	66.67	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	**ARAMW-8**	**0.2005**	**0.1024**	**0.1**	**Yes**	**9**	**0.1479**	**0.06261**	**0**	**None**	**x^2**	**0.01**	**Param.**
Molybdenum (mg/L)	ARGWC-22	0.015	0.000496	0.1	No	18	0.007859	0.007356	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	ARGWC-23	0.06445	0.04668	0.1	No	18	0.05339	0.0183	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	ARAMW-9	0.01998	0	0.1	No	4	0.008525	0.005046	0	None	No	0.01	Param.
Selenium (mg/L)	ARGWC-22	0.005	0.002	0.05	No	18	0.004833	0.0007071	94.44	None	No	0.01	NP (NDs)
Silver (mg/L)	ARGWC-21	0.001	0.00043	0.001	No	18	0.0009683	0.0001344	94.44	None	No	0.01	NP (NDs)
Thallium (mg/L)	ARGWC-22	0.002	0.00035	0.002	No	15	0.001583	0.0007244	73.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	ARGWC-23	0.002	0.00028	0.002	No	15	0.001653	0.0007177	80	None	No	0.01	NP (NDs)

Appendix IV Trend Tests - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/27/2024, 3:13 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Lithium (mg/L)	**ARGWC-23**	**0.008693**	**127**	**58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	**ARAMW-8**	**0.03468**	**28**	**20**	**Yes**	**9**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	**ARGWA-19 (bg)**	**-0.00008875**	**-92**	**-62**	**Yes**	**20**	**65**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/27/2024, 3:13 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	ARAMW-7	-0.0001726	0	20	No	9	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARGWA-19 (bg)	0	5	71	No	22	81.82	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARGWA-20 (bg)	0	-22	-71	No	22	54.55	n/a	n/a	0.05	NP
Lithium (mg/L)	ARAMW-7	0	0	20	No	9	0	n/a	n/a	0.05	NP
Lithium (mg/L)	ARGWA-19 (bg)	-0.0001902	-68	-71	No	22	4.545	n/a	n/a	0.05	NP
Lithium (mg/L)	ARGWA-20 (bg)	0	6	71	No	22	81.82	n/a	n/a	0.05	NP
Lithium (mg/L)	**ARGWC-23**	**0.008693**	**127**	**58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	**ARAMW-8**	**0.03468**	**28**	**20**	**Yes**	**9**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	**ARGWA-19 (bg)**	**-0.00008875**	**-92**	**-62**	**Yes**	**20**	**65**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	ARGWA-20 (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP

Table of Contents

FIGURE A.

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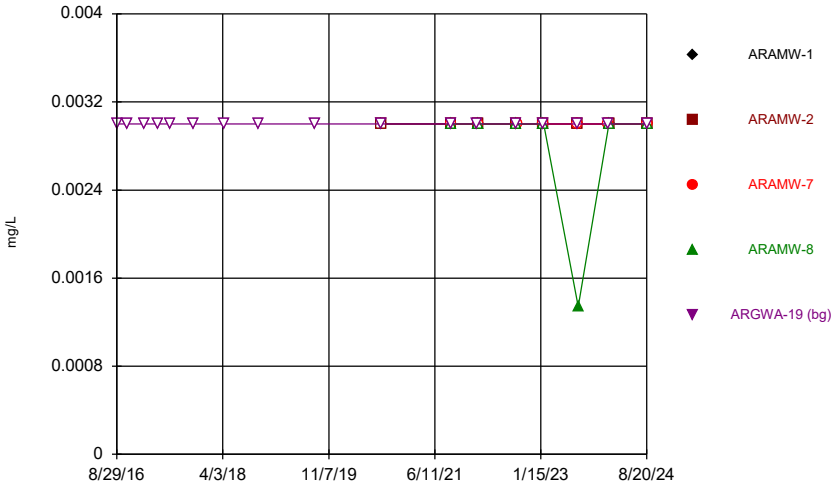
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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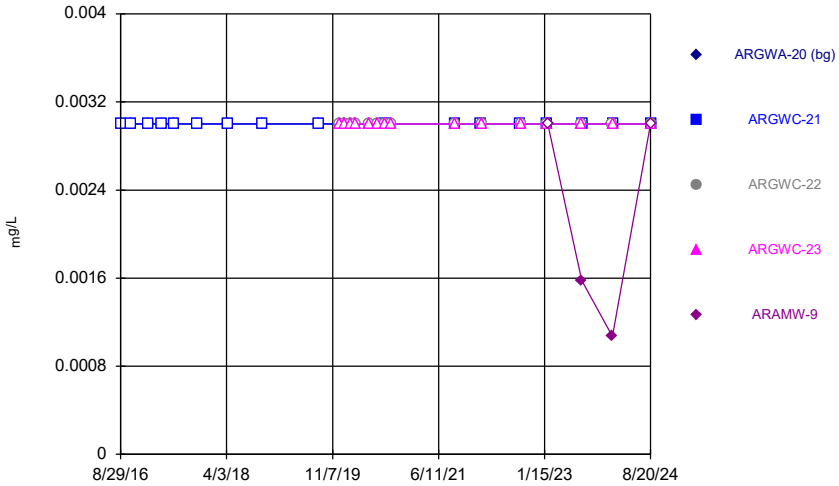
Time Series



Constituent: Antimony Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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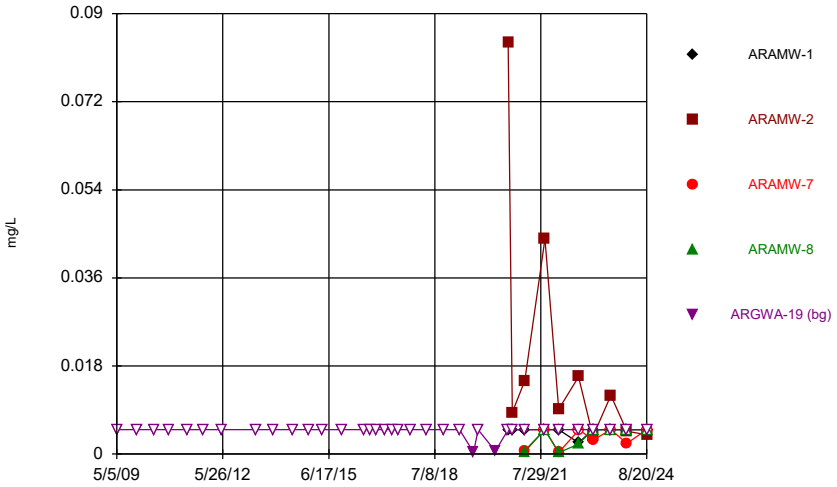
Time Series



Constituent: Arsenic Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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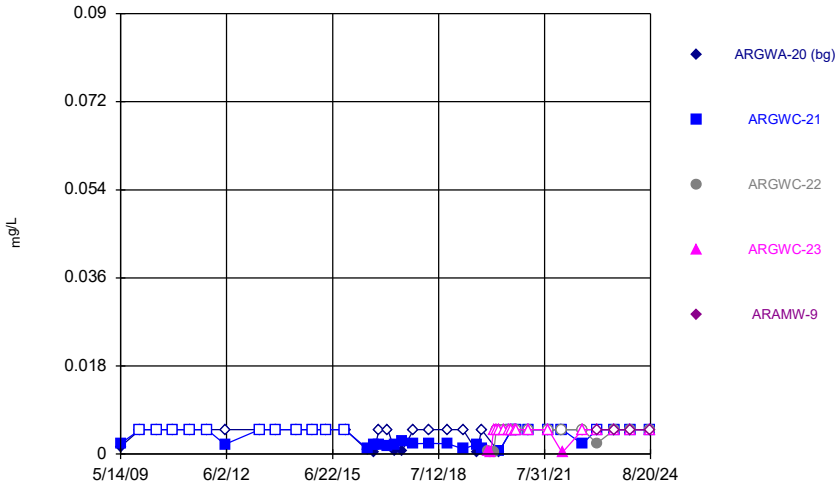
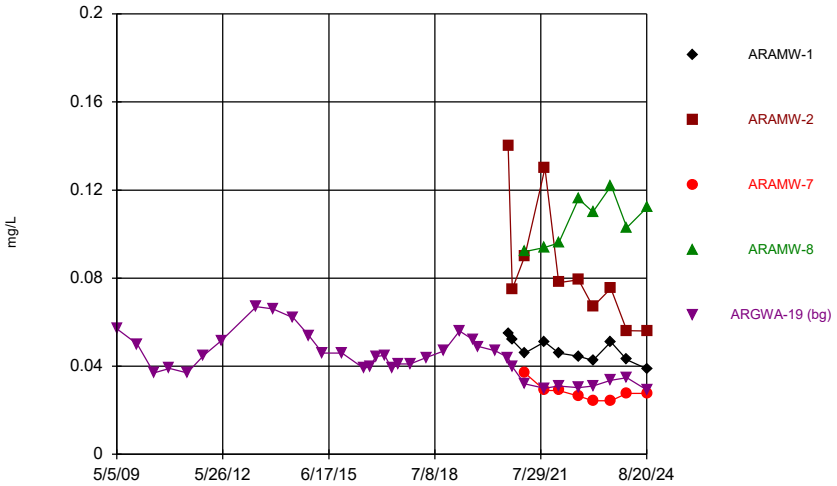
Hollow symbols indicate censored values.

Time Series



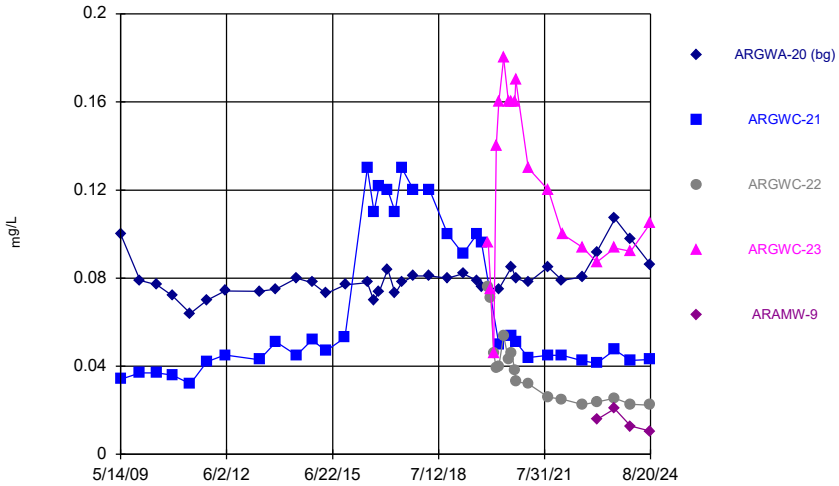
Constituent: Arsenic Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Time Series



Constituent: Barium Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Time Series



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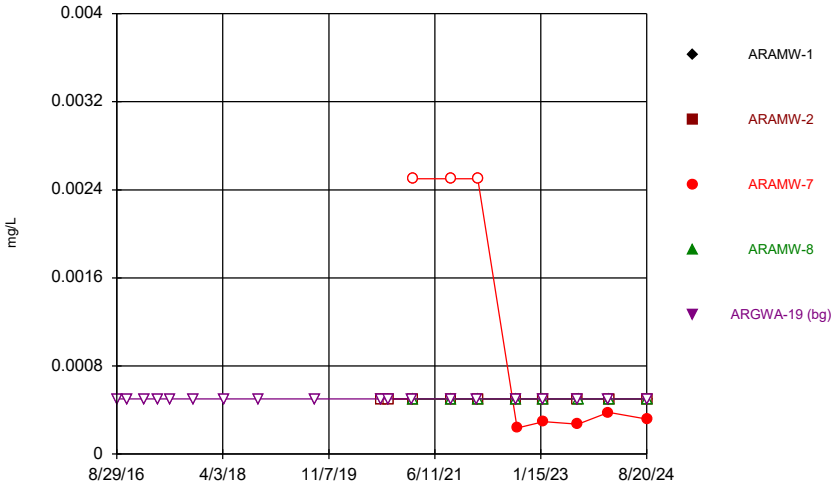
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

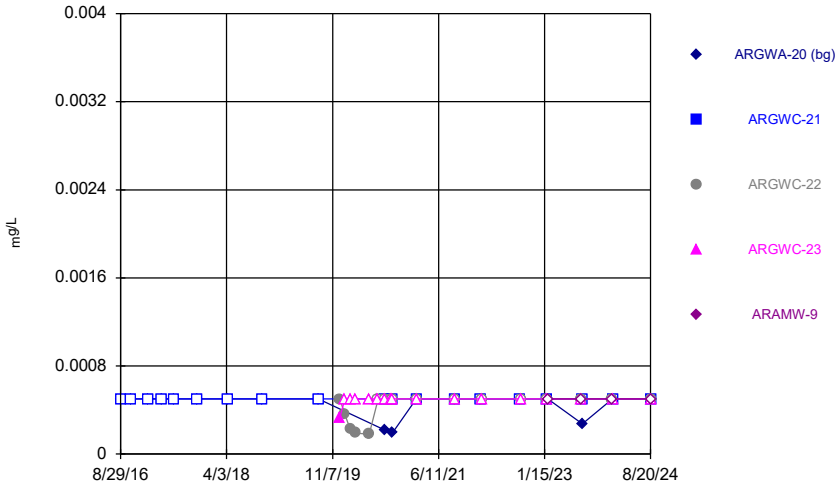
Time Series



Constituent: Beryllium Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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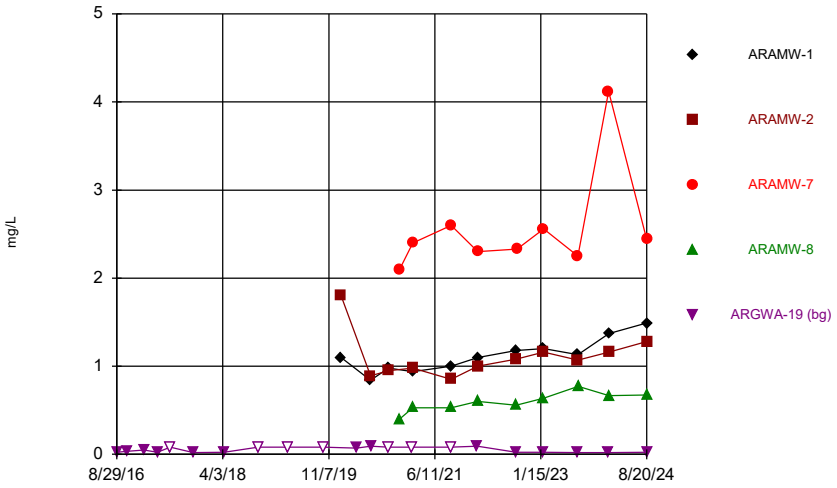
Hollow symbols indicate censored values.

Time Series



Constituent: Boron Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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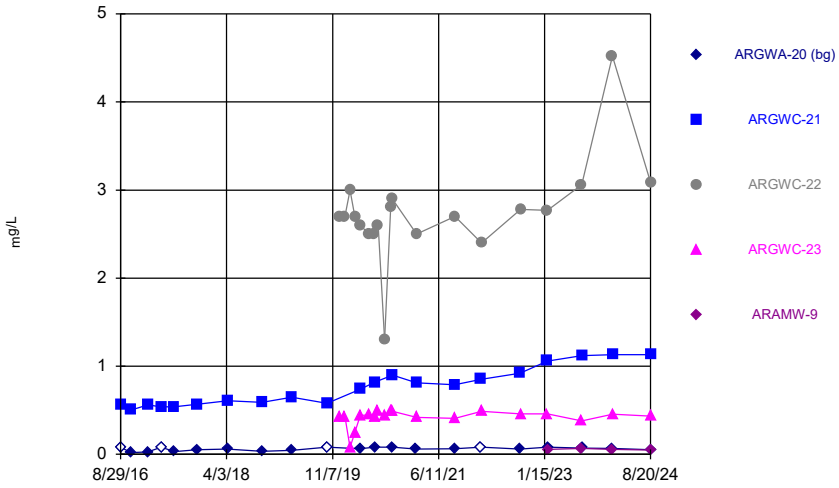
Hollow symbols indicate censored values.

Time Series



Constituent: Boron Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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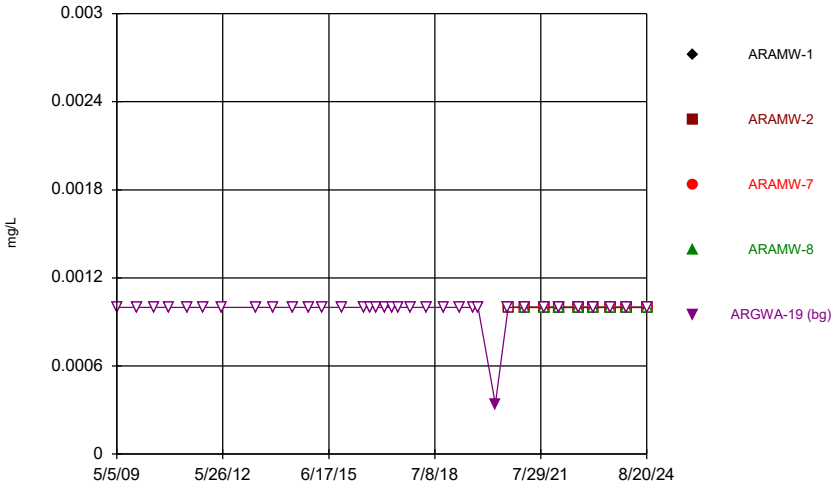
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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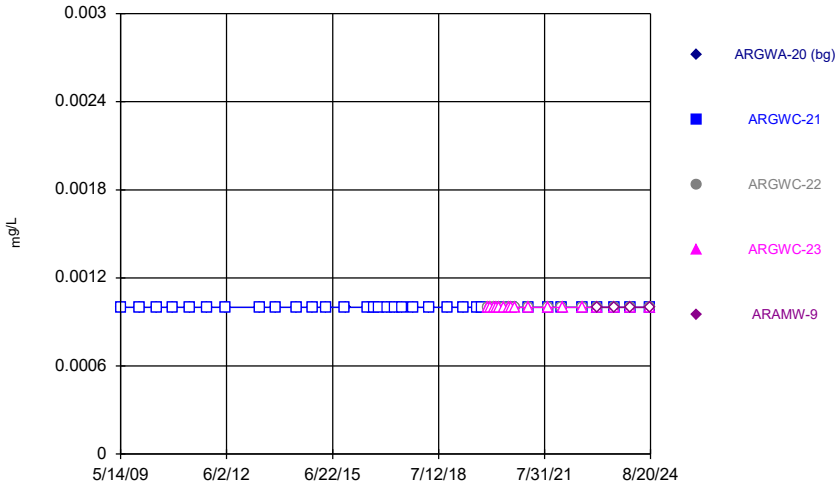
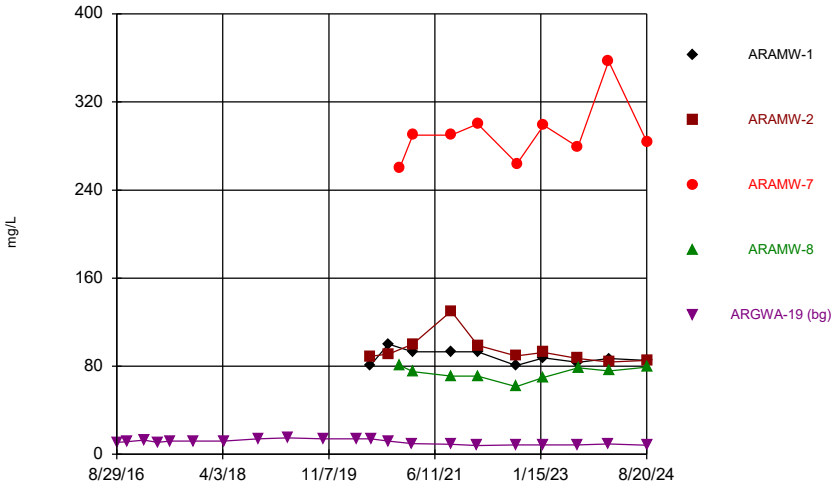
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Time Series



Constituent: Calcium Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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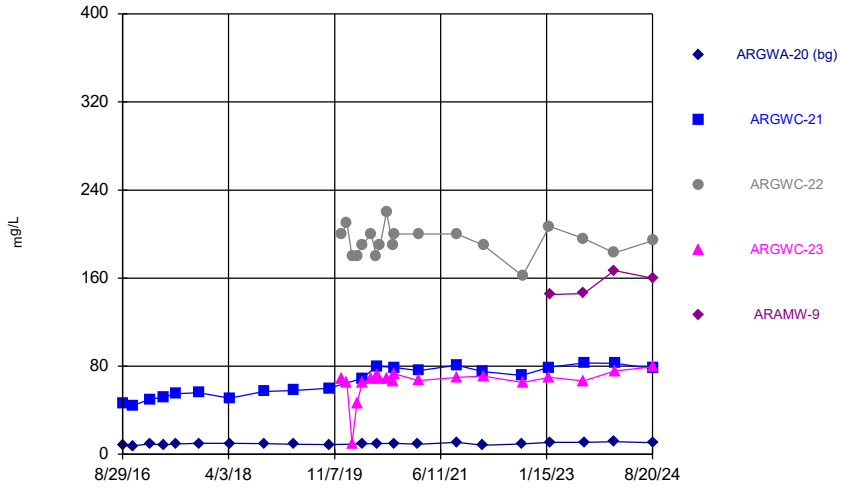
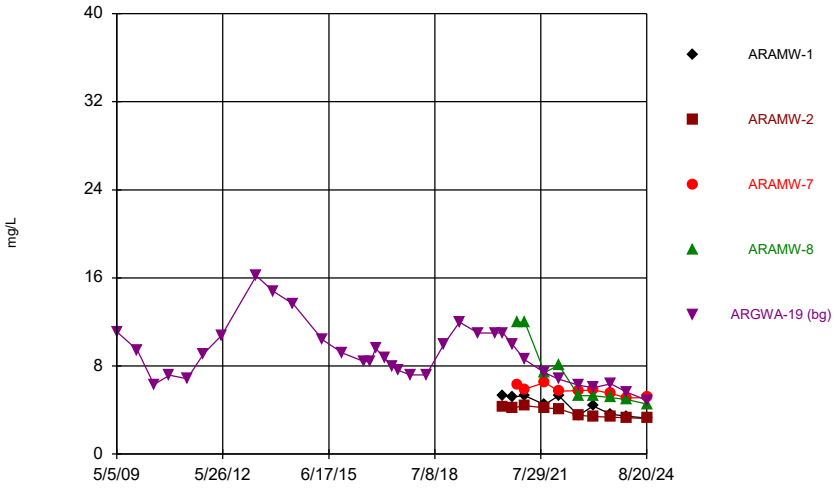
Time Series



Constituent: Calcium Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

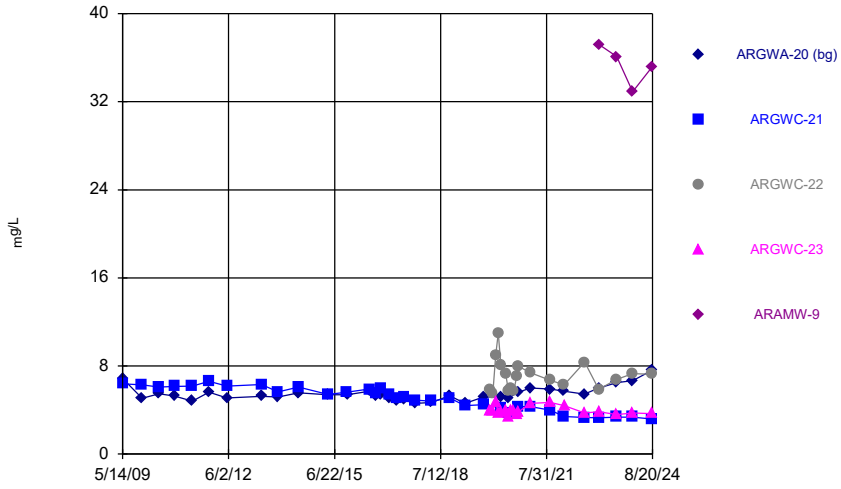
Time Series



Constituent: Chloride Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

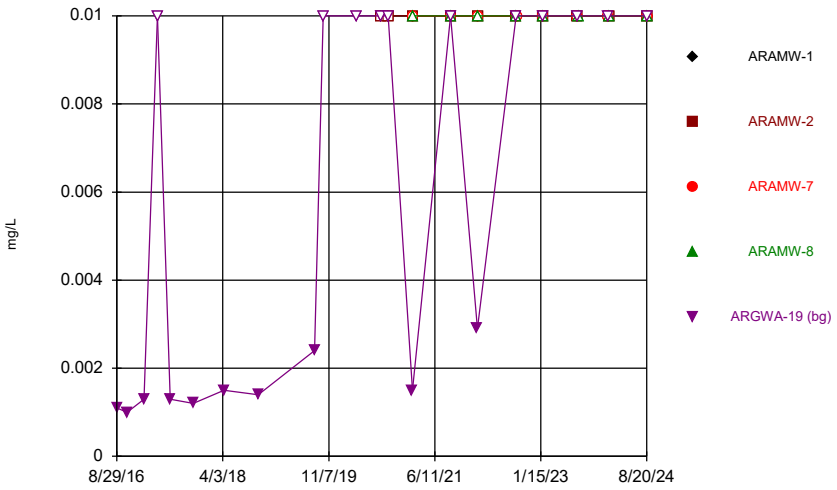
Time Series



Constituent: Chloride Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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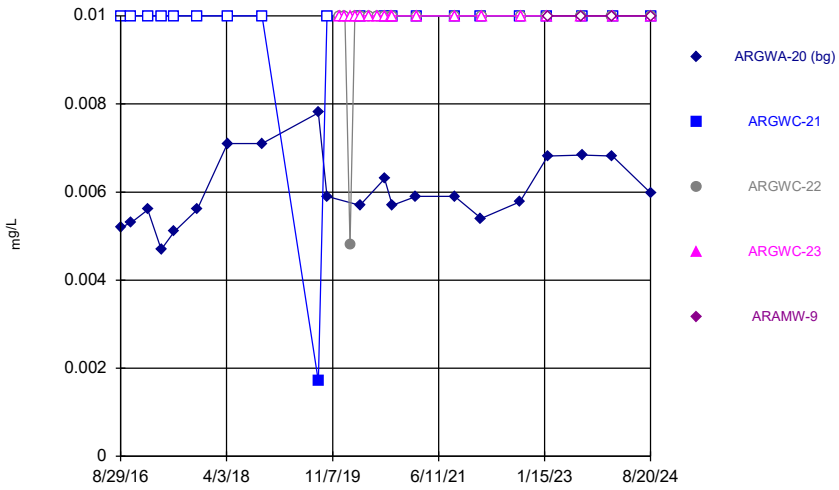
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Analysis Run 9/26/2024 12:28 PM View: Descriptive
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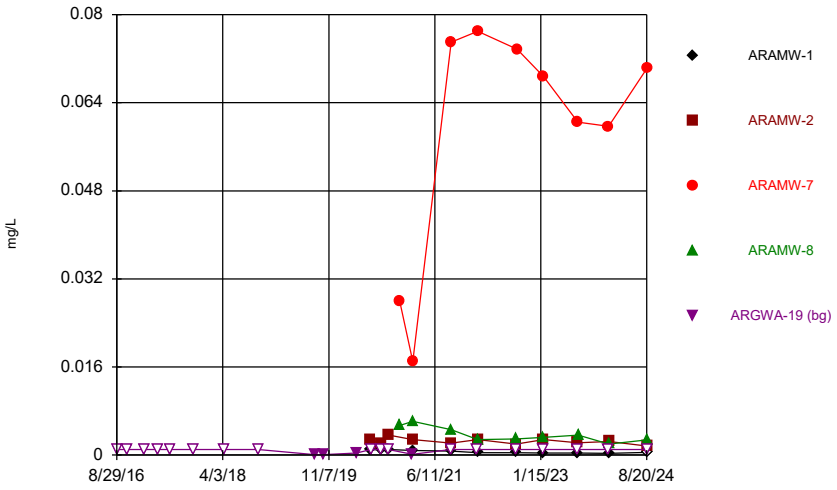
Hollow symbols indicate censored values.

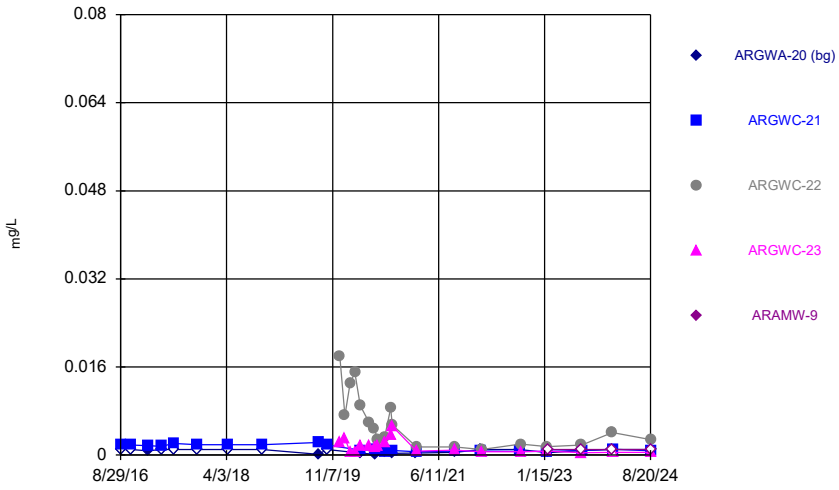
Time Series



Constituent: Cobalt Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

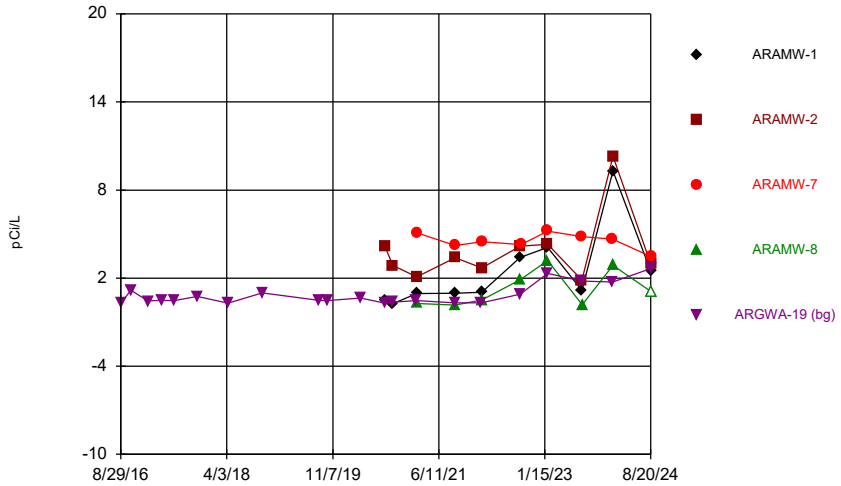
Time Series



Constituent: Cobalt Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

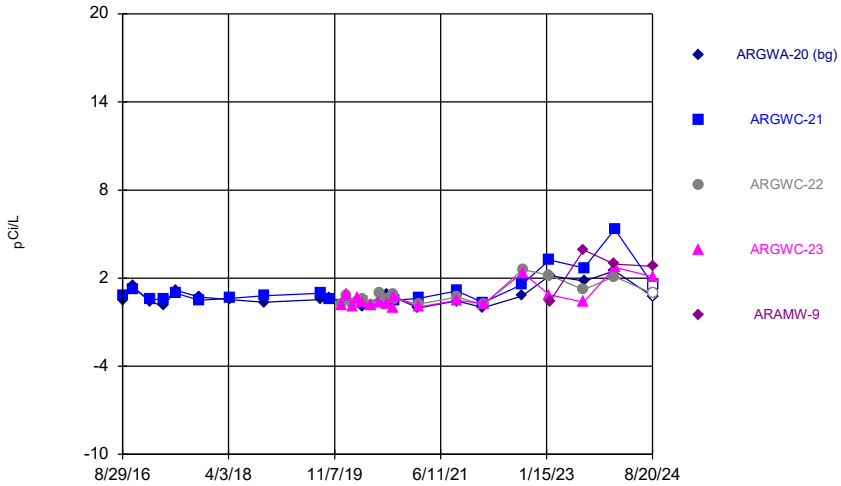
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

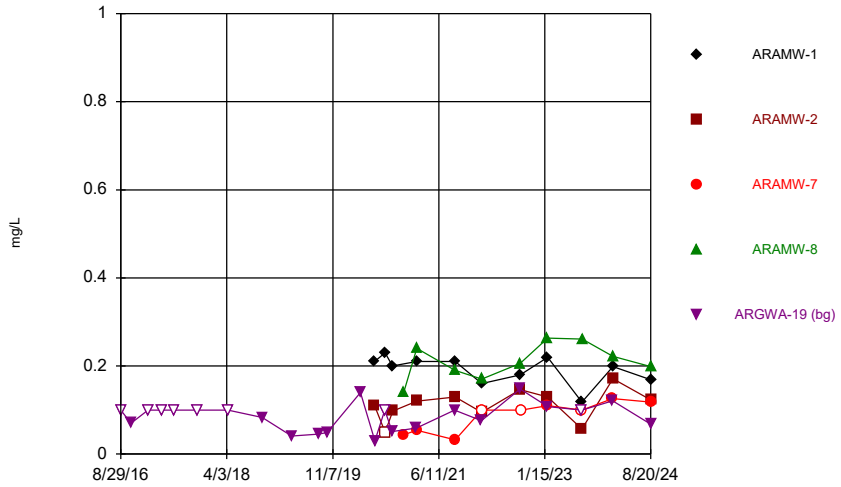
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 9/26/2024 12:28 PM View: Descriptive
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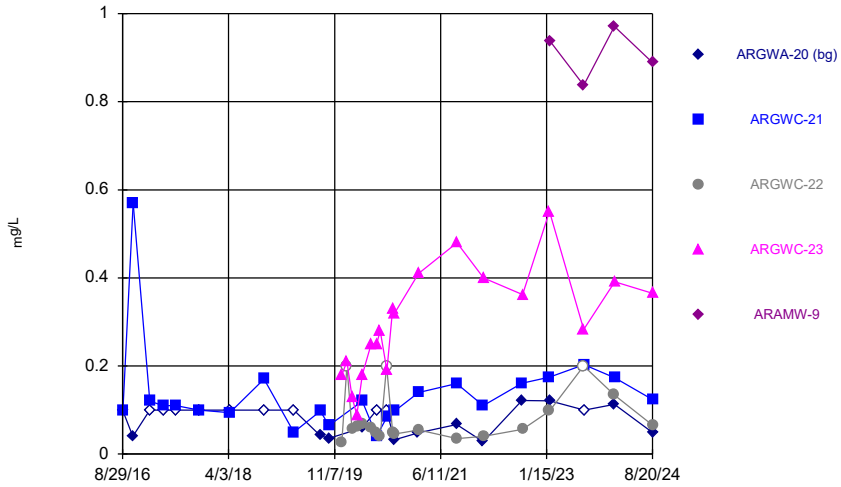
Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 9/26/2024 12:28 PM View: Descriptive
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Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
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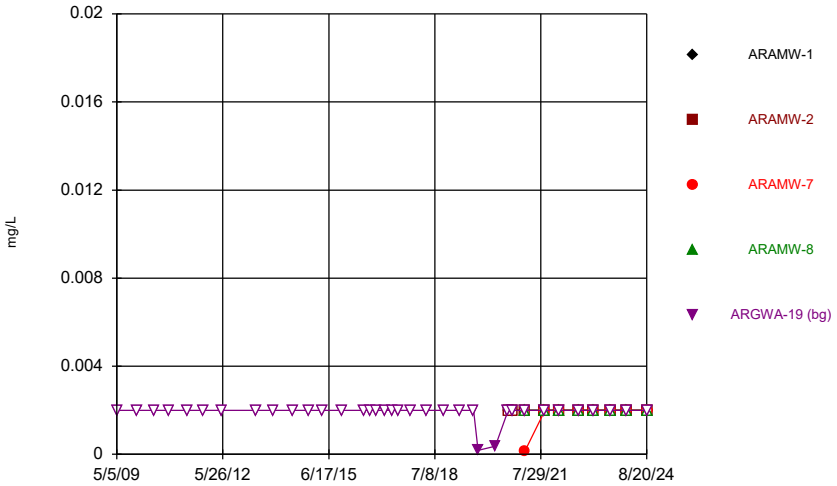
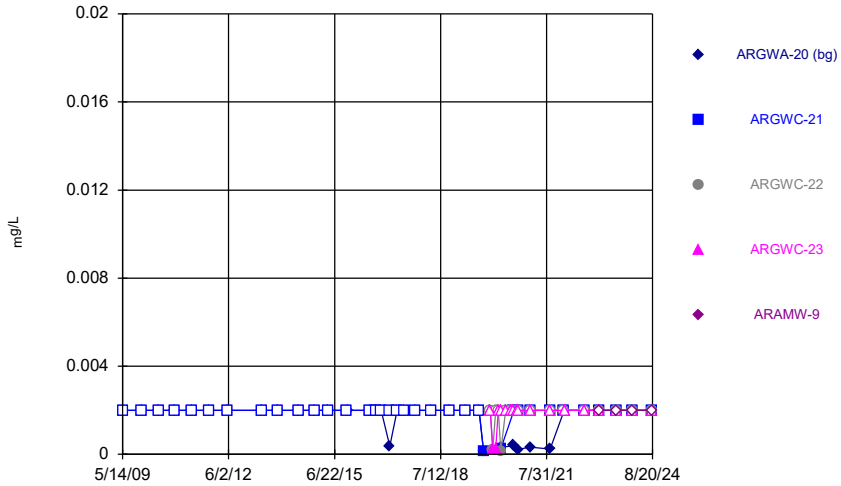


Constituent: Lead Analysis Run 10/1/2024 9:21 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

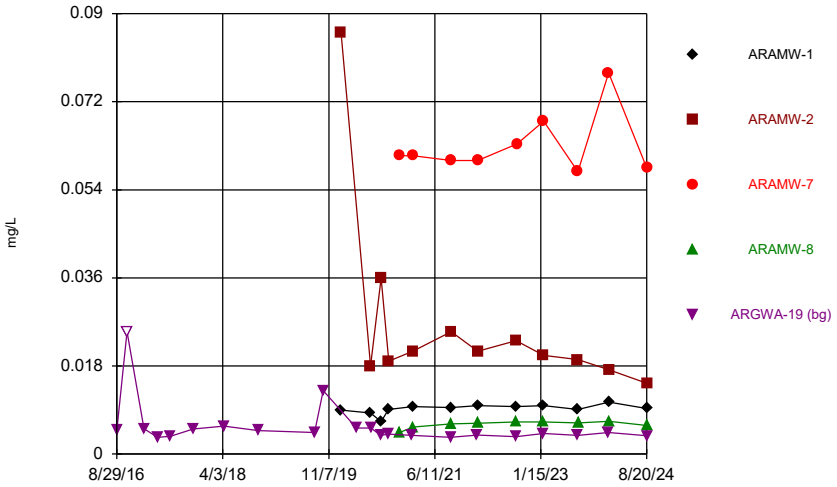
Time Series



Constituent: Lead Analysis Run 10/1/2024 9:21 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

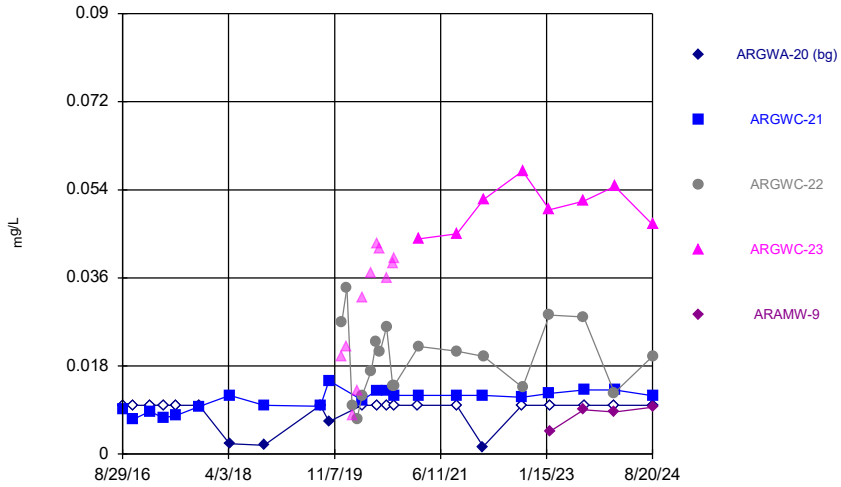
Time Series



Constituent: Lithium Analysis Run 10/1/2024 9:21 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lithium Analysis Run 10/1/2024 9:21 AM View: Descriptive
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Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
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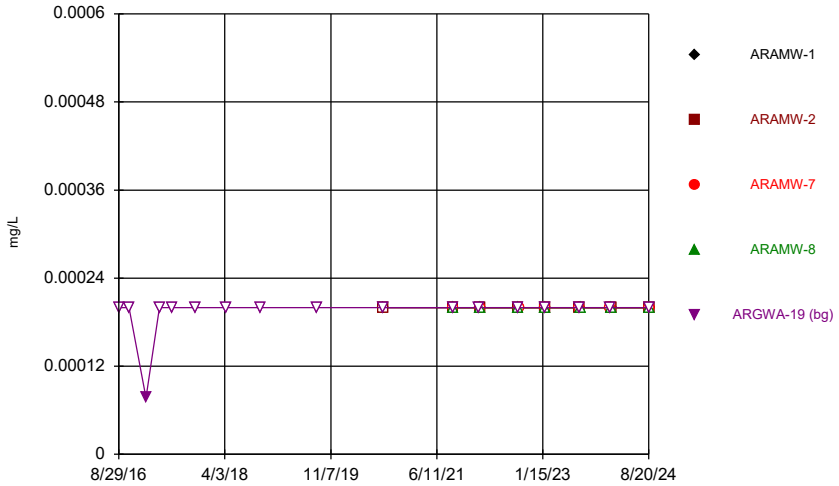
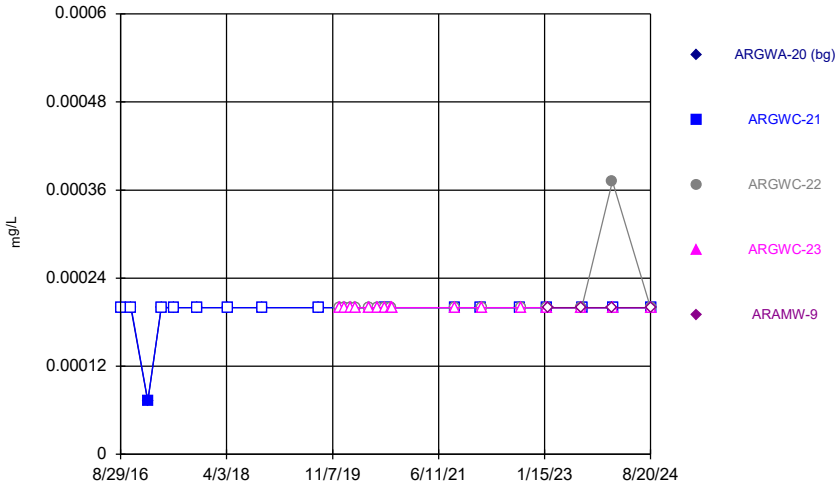
Time Series



Constituent: Mercury Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

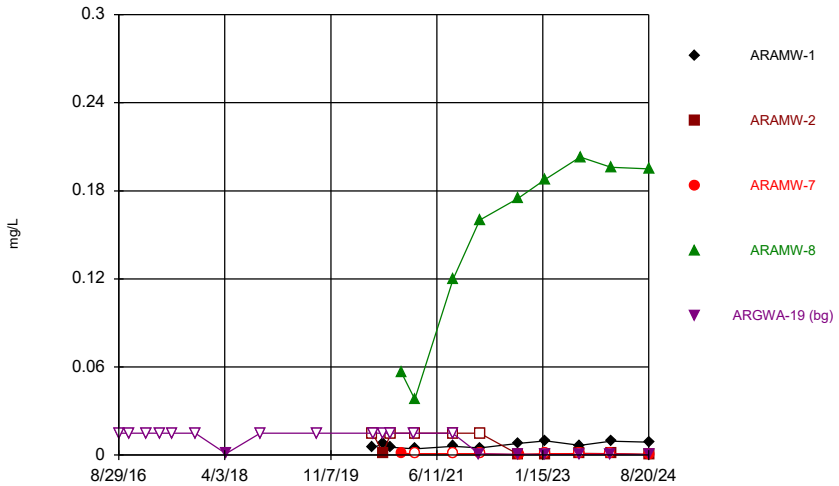
Time Series



Constituent: Mercury Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Molybdenum Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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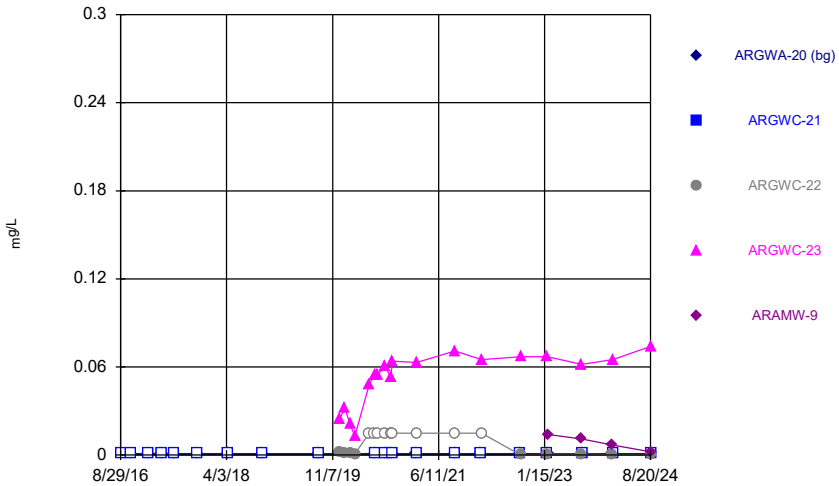
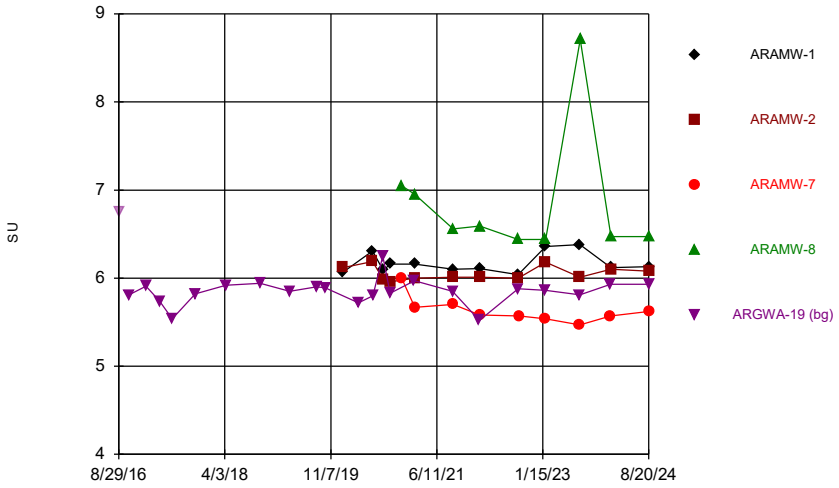
Hollow symbols indicate censored values.

Time Series



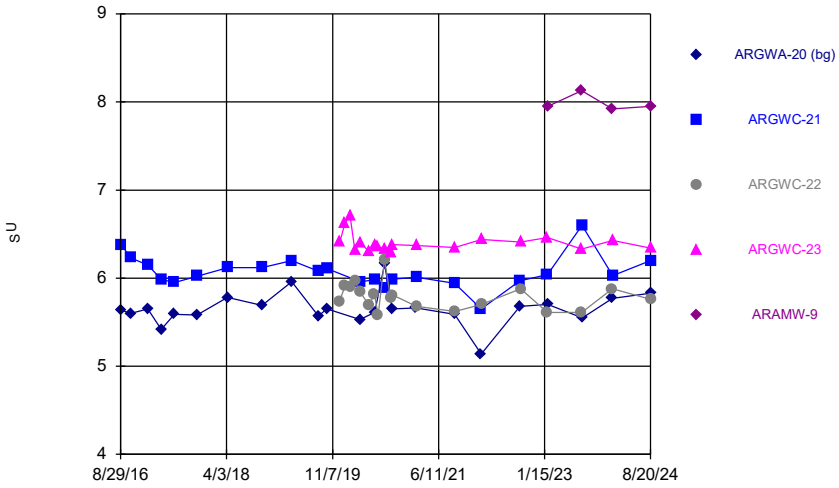
Constituent: Molybdenum Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Time Series



Constituent: pH Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

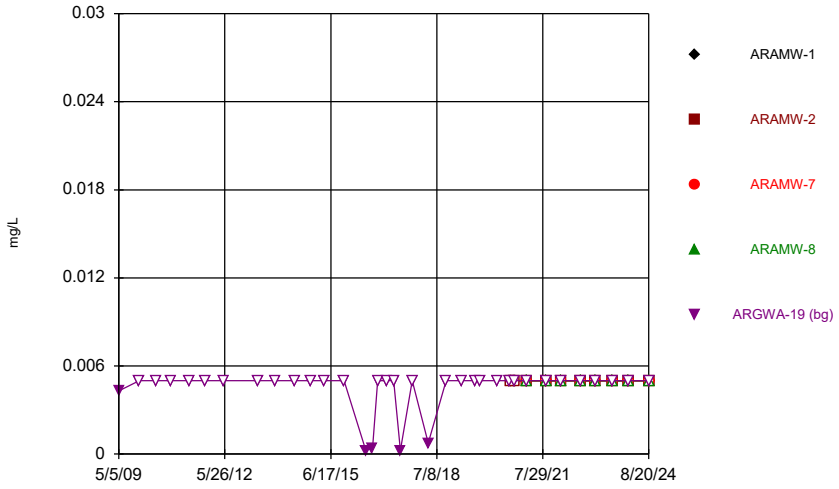
Time Series



Constituent: pH Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

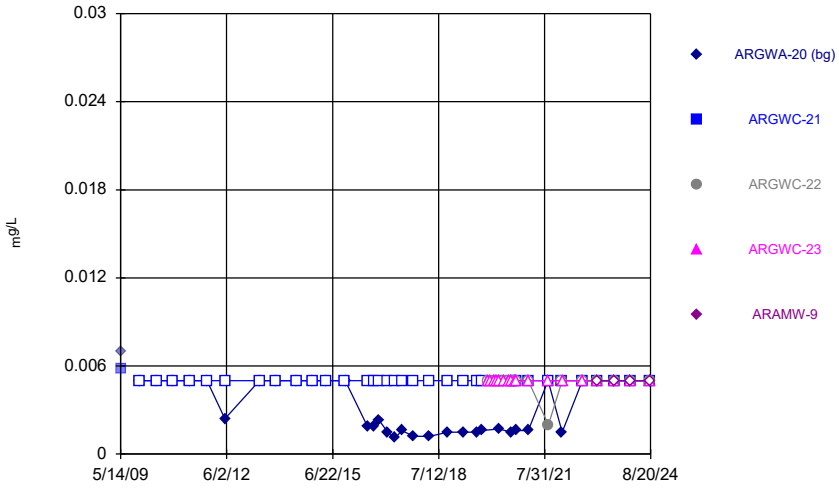
Time Series



Constituent: Selenium Analysis Run 9/26/2024 12:28 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 9/26/2024 12:29 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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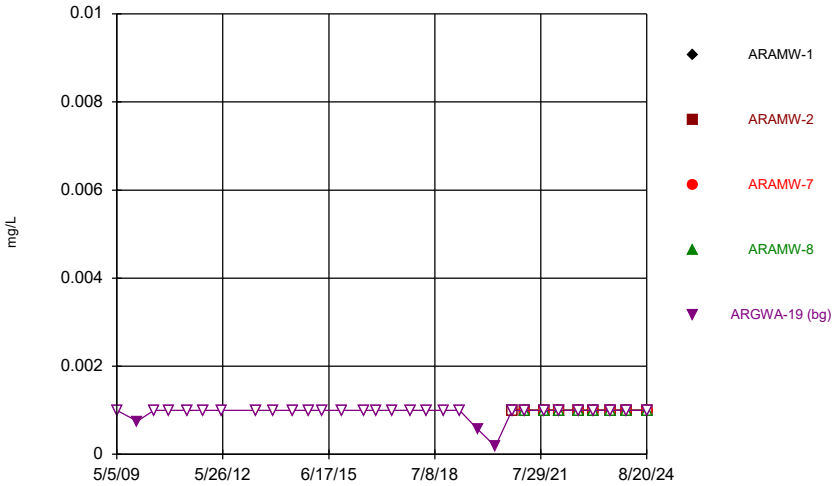
Hollow symbols indicate censored values.

Time Series



Constituent: Silver Analysis Run 9/26/2024 12:29 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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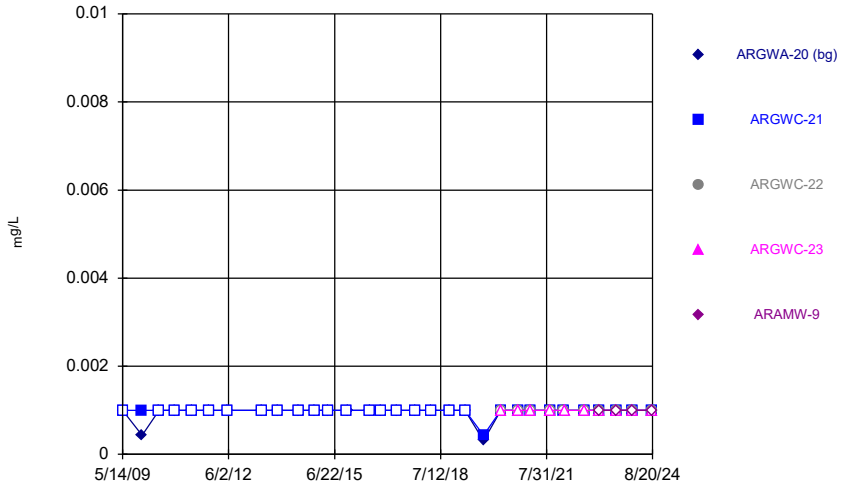
Hollow symbols indicate censored values.

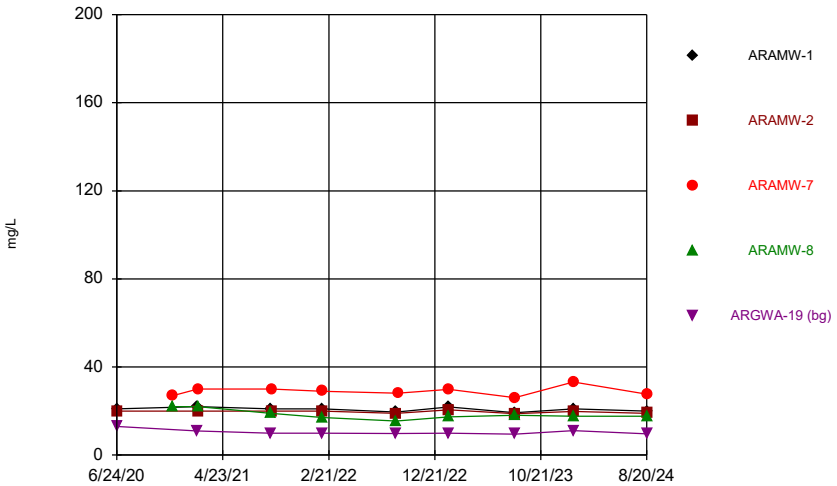
Time Series



Constituent: Silver Analysis Run 9/26/2024 12:29 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

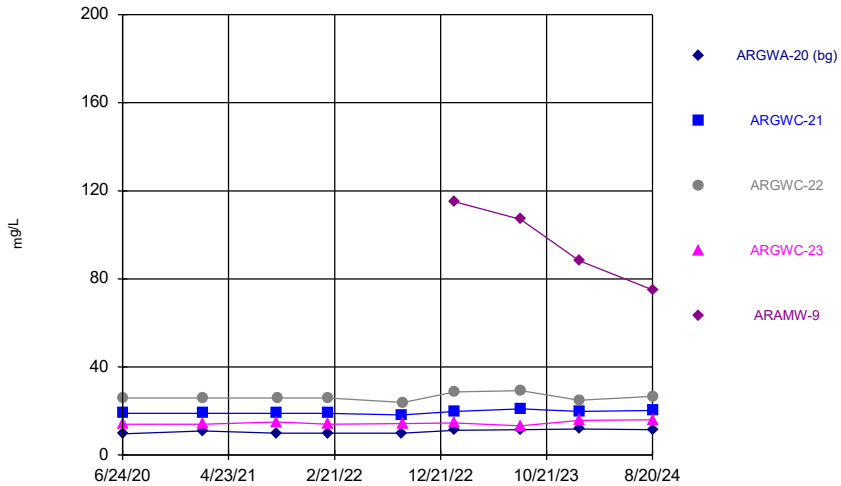
Time Series



Constituent: Sodium Analysis Run 9/26/2024 12:29 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

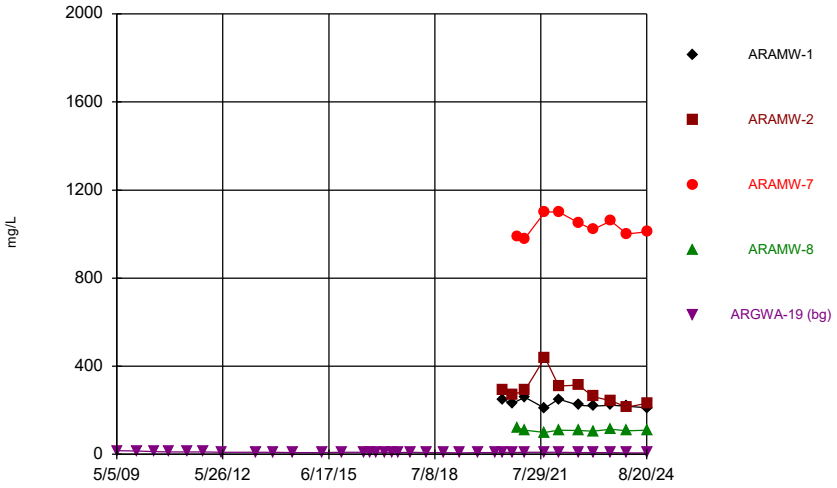
Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Time Series



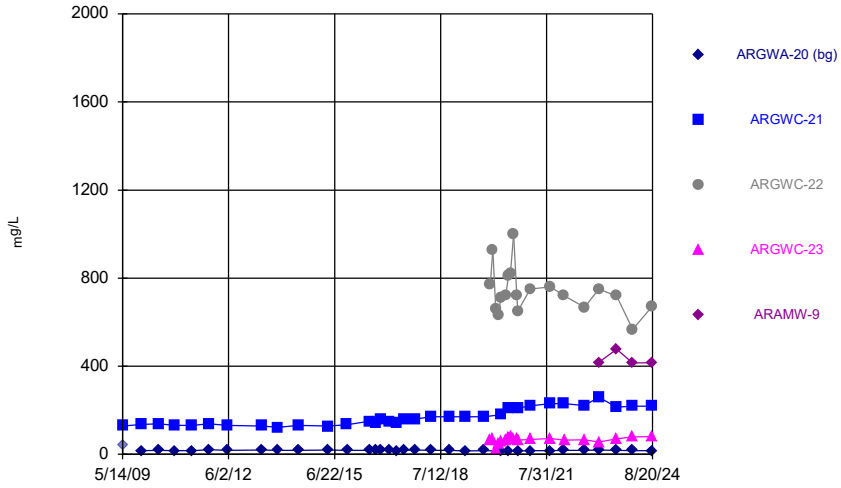
Constituent: Sodium Analysis Run 9/26/2024 12:29 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Time Series



Constituent: Sulfate Analysis Run 9/26/2024 12:29 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Time Series



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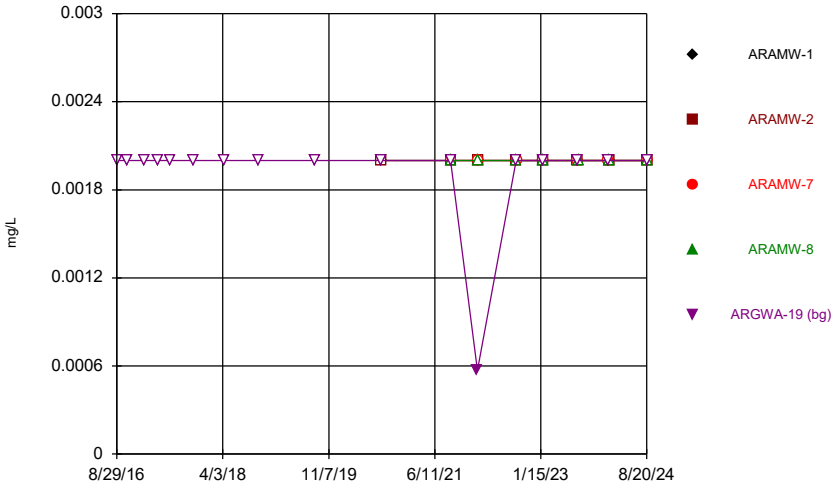
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

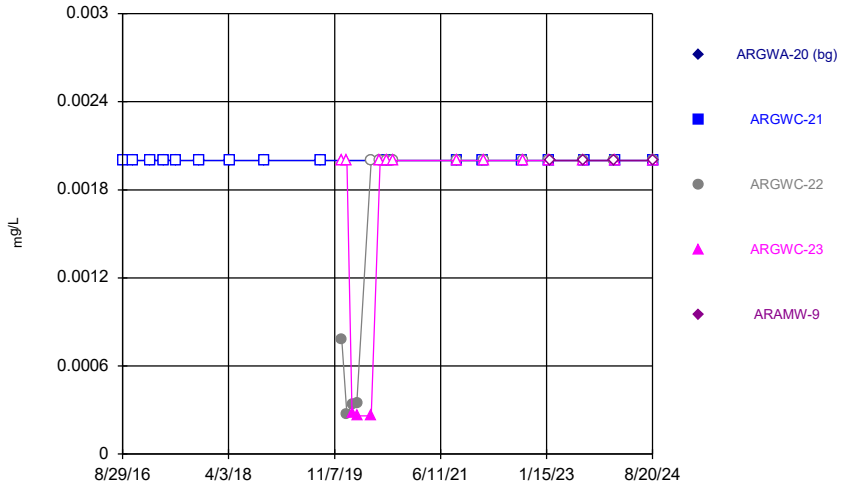
Time Series



Constituent: Thallium Analysis Run 9/26/2024 12:29 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

Time Series



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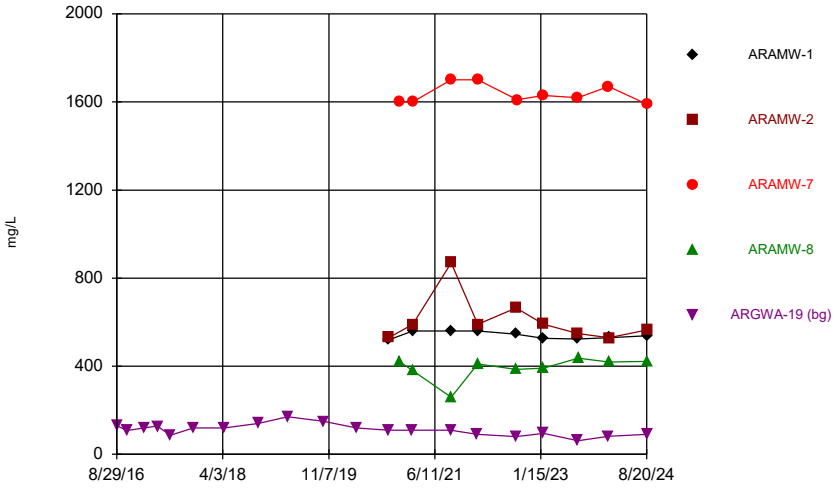
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Time Series



Constituent: Total Dissolved Solids Analysis Run 9/26/2024 12:29 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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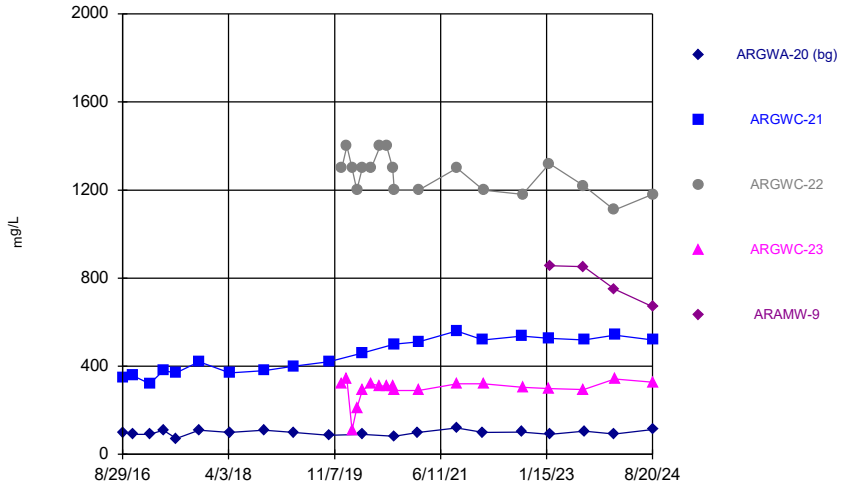
Time Series



Constituent: Total Dissolved Solids Analysis Run 9/26/2024 12:29 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Time Series

Constituent: Antimony (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
8/29/2016					<0.003
10/24/2016					<0.003
1/25/2017					<0.003
4/10/2017					<0.003
6/19/2017					<0.003
10/24/2017					<0.003
4/10/2018					<0.003
10/16/2018					<0.003
8/20/2019					<0.003
8/19/2020					<0.003
8/20/2020	<0.003	<0.003			
9/7/2021					<0.003
9/9/2021	<0.003			<0.003	
9/10/2021		<0.003	<0.003		
2/1/2022					<0.003
2/2/2022			<0.003		
2/3/2022	<0.003	<0.003		<0.003	
9/1/2022					<0.003
9/2/2022	<0.003	<0.003		<0.003	
9/7/2022			<0.003		
1/31/2023	<0.003	<0.003	<0.003	<0.003	<0.003
8/8/2023	<0.003	<0.003	<0.003		<0.003
8/9/2023				0.00134 (J)	
1/23/2024			<0.003		<0.003
1/24/2024	<0.003	<0.003		<0.003	
8/20/2024	<0.003	<0.003	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
8/29/2016	<0.003				
8/30/2016		<0.003			
10/24/2016	<0.003				
10/26/2016		<0.003			
1/25/2017	<0.003	<0.003			
4/10/2017	<0.003	<0.003			
6/19/2017		<0.003			
6/20/2017	<0.003				
10/24/2017	<0.003	<0.003			
4/9/2018	<0.003				
4/10/2018		<0.003			
10/16/2018	<0.003	<0.003			
8/20/2019	<0.003	<0.003			
12/16/2019			<0.003	<0.003	
1/14/2020			<0.003	<0.003	
2/11/2020			<0.003	<0.003	
3/9/2020			<0.003	<0.003	
5/27/2020			<0.003	<0.003	
7/15/2020			<0.003	<0.003	
8/19/2020	<0.003		<0.003		
8/20/2020				<0.003	
8/21/2020		<0.003			
9/22/2020			<0.003	<0.003	
9/8/2021	<0.003	<0.003			
9/9/2021				<0.003	
9/10/2021			<0.003		
2/1/2022	<0.003	<0.003			
2/2/2022			<0.003		
2/3/2022				<0.003	
9/1/2022		<0.003			
9/2/2022	<0.003				
9/6/2022			<0.003	<0.003	
1/31/2023		<0.003	<0.003	<0.003	
2/1/2023	<0.003				<0.003
8/8/2023			<0.003	<0.003	0.00158 (J)
8/9/2023		<0.003			
8/10/2023	<0.003				
1/23/2024	<0.003		<0.003		0.00107 (J)
1/24/2024		<0.003		<0.003	
8/20/2024	<0.003	<0.003	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
5/5/2009					<0.005
12/5/2009					<0.005
6/1/2010					<0.005
11/11/2010					<0.005
5/17/2011					<0.005
11/8/2011					<0.005
5/16/2012					<0.005
5/14/2013					<0.005
11/5/2013					<0.005
6/9/2014					<0.005
11/19/2014					<0.005
4/14/2015					<0.005
11/4/2015					<0.005
6/22/2016					<0.005
8/29/2016					<0.005
10/24/2016					<0.005
1/25/2017					<0.005
4/10/2017					<0.005
6/19/2017					<0.005
10/24/2017					<0.005
4/10/2018					<0.005
10/16/2018					<0.005
3/26/2019					<0.005
8/20/2019					0.00036 (J)
10/7/2019					<0.005
4/7/2020					0.0006 (J)
8/19/2020					<0.005
8/20/2020	<0.005	0.084			
9/29/2020					<0.005
9/30/2020	<0.005				
10/1/2020		0.0085			
2/9/2021					<0.005
2/10/2021	<0.005				
2/11/2021		0.015	0.00075 (J)	0.00046 (J)	
9/7/2021					<0.005
9/9/2021	<0.005			<0.005	
9/10/2021		0.044	<0.005		
2/1/2022					<0.005
2/2/2022			0.00035 (J)		
2/3/2022	<0.005	0.0092		0.00031 (J)	
9/1/2022					<0.005
9/2/2022	0.00233 (J)	0.0158		0.00206 (J)	
9/7/2022			<0.005		
1/31/2023	<0.005	0.00363 (J)	0.00286 (J)	<0.005	<0.005
8/8/2023	<0.005	0.012	<0.005		<0.005
8/9/2023				<0.005	
1/23/2024			0.00219 (J)		<0.005
1/24/2024	<0.005	0.0047 (J)		<0.005	
8/20/2024	<0.005	0.00392 (J)	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
5/14/2009		0.0022			
5/15/2009	0.0015				
12/5/2009	<0.005	<0.005			
6/1/2010	<0.005				
6/2/2010		<0.005			
11/11/2010	<0.005	<0.005			
5/17/2011	<0.005	<0.005			
11/8/2011	<0.005	<0.005			
5/16/2012	<0.005	0.002 (J)			
5/14/2013	<0.005	<0.005			
11/5/2013	<0.005	<0.005			
6/9/2014	<0.005	<0.005			
11/18/2014	<0.005	<0.005			
4/14/2015	<0.005	<0.005			
10/29/2015		<0.005			
11/4/2015	<0.005				
6/22/2016	0.00084 (J)				
6/23/2016		0.0011 (J)			
8/29/2016	0.00049 (J)				
8/30/2016		0.002			
10/24/2016	<0.005				
10/26/2016		0.0019 (J)			
1/25/2017	<0.005	0.0017			
4/10/2017	0.00056 (J)	0.002			
6/19/2017		0.0026			
6/20/2017	0.00068 (J)				
10/24/2017	<0.005	0.0021			
4/9/2018	<0.005				
4/10/2018		0.0022			
10/16/2018	<0.005	0.0021			
3/27/2019	<0.005	0.0011 (J)			
8/20/2019	0.00047 (J)	0.002			
10/7/2019	<0.005				
10/8/2019		0.0012 (J)			
12/16/2019			0.00066 (J)	0.00075 (J)	
1/14/2020			0.00038 (J)	0.00042 (J)	
2/11/2020			0.0004 (J)	<0.005	
3/9/2020			<0.005	<0.005	
4/6/2020	0.00042 (J)				
4/7/2020		0.00054 (J)	<0.005	<0.005	
5/27/2020			<0.005	<0.005	
7/15/2020			<0.005	<0.005	
8/19/2020	<0.005		<0.005		
8/20/2020				<0.005	
8/21/2020		<0.005			
9/22/2020			<0.005	<0.005	
9/30/2020	<0.005		<0.005		
10/1/2020		<0.005		<0.005	
2/9/2021	<0.005				
2/10/2021		<0.005	<0.005	<0.005	
9/8/2021	<0.005	<0.005			
9/9/2021				<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
9/10/2021			<0.005		
2/1/2022	<0.005	<0.005			
2/2/2022			<0.005		
2/3/2022				0.0003 (J)	
9/1/2022		0.00207 (J)			
9/2/2022	<0.005				
9/6/2022			<0.005	<0.005	
1/31/2023		<0.005	0.00221 (J)	<0.005	
2/1/2023	<0.005				<0.005
8/8/2023			<0.005	<0.005	<0.005
8/9/2023		<0.005			
8/10/2023	<0.005				
1/23/2024	<0.005		<0.005		<0.005
1/24/2024		<0.005		<0.005	
8/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
5/5/2009					0.057
12/5/2009					0.05
6/1/2010					0.037
11/11/2010					0.039
5/17/2011					0.037
11/8/2011					0.045
5/16/2012					0.0518
5/14/2013					0.067
11/5/2013					0.066
6/9/2014					0.062
11/19/2014					0.054
4/14/2015					0.046
11/4/2015					0.046
6/22/2016					0.039
8/29/2016					0.04
10/24/2016					0.0444
1/25/2017					0.045
4/10/2017					0.039
6/19/2017					0.041
10/24/2017					0.041
4/10/2018					0.044
10/16/2018					0.047
3/26/2019					0.056
8/20/2019					0.052
10/7/2019					0.049
4/7/2020					0.047
8/19/2020					0.044
8/20/2020	0.055	0.14			
9/29/2020					0.04
9/30/2020	0.052				
10/1/2020		0.075			
2/9/2021					0.032
2/10/2021	0.046				
2/11/2021		0.09	0.037	0.092	
9/7/2021					0.03
9/9/2021	0.051			0.094	
9/10/2021		0.13	0.029		
2/1/2022					0.031
2/2/2022			0.029		
2/3/2022	0.046	0.078		0.096	
9/1/2022					0.0303
9/2/2022	0.0445	0.0792		0.116	
9/7/2022			0.0263		
1/31/2023	0.0427	0.067	0.0243	0.11	0.031
8/8/2023	0.051	0.0753	0.0244		0.0337
8/9/2023				0.122	
1/23/2024			0.0277		0.0348
1/24/2024	0.043	0.0562		0.103	
8/20/2024	0.0389	0.056	0.0277	0.112	0.0293

Time Series

Constituent: Barium (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
5/14/2009		0.034			
5/15/2009	0.1				
12/5/2009	0.079	0.037			
6/1/2010	0.077				
6/2/2010		0.037			
11/11/2010	0.072	0.036			
5/17/2011	0.064	0.032			
11/8/2011	0.07	0.042			
5/16/2012	0.0741	0.0451			
5/14/2013	0.074	0.043			
11/5/2013	0.075	0.051			
6/9/2014	0.08	0.045			
11/18/2014	0.078	0.052			
4/14/2015	0.073	0.047			
10/29/2015		0.053			
11/4/2015	0.077				
6/22/2016	0.078				
6/23/2016		0.13			
8/29/2016	0.07				
8/30/2016		0.11			
10/24/2016	0.0738				
10/26/2016		0.122			
1/25/2017	0.084	0.12			
4/10/2017	0.073	0.11			
6/19/2017		0.13			
6/20/2017	0.078				
10/24/2017	0.081	0.12			
4/9/2018	0.081				
4/10/2018		0.12			
10/16/2018	0.08	0.1			
3/27/2019	0.082	0.091			
8/20/2019	0.079	0.1			
10/7/2019	0.076				
10/8/2019		0.096			
12/16/2019			0.076	0.096	
1/14/2020			0.071	0.075	
2/11/2020			0.046	0.046	
3/9/2020			0.039	0.14	
4/6/2020	0.075				
4/7/2020		0.05	0.04	0.16	
5/27/2020			0.054	0.18	
7/15/2020			0.043	0.16	
8/19/2020	0.085		0.046		
8/20/2020				0.16	
8/21/2020		0.054			
9/22/2020			0.038	0.16	
9/30/2020	0.08		0.033		
10/1/2020		0.051		0.17	
2/9/2021	0.078				
2/10/2021		0.044	0.032	0.13	
9/8/2021	0.085	0.045			
9/9/2021				0.12	

Time Series

Constituent: Barium (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
9/10/2021			0.026		
2/1/2022	0.079	0.045			
2/2/2022			0.025		
2/3/2022				0.1	
9/1/2022		0.0425			
9/2/2022	0.0806				
9/6/2022			0.0226	0.0939	
1/31/2023		0.0414	0.0237	0.0872	
2/1/2023	0.0919				0.0158
8/8/2023			0.0255	0.0936	0.0207
8/9/2023		0.0474			
8/10/2023	0.107				
1/23/2024	0.0978		0.0227		0.0128
1/24/2024		0.0427		0.0922	
8/20/2024	0.0863	0.0431	0.0223	0.105	0.0105

Time Series

Constituent: Beryllium (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
8/29/2016					<0.0005
10/24/2016					<0.0005
1/25/2017					<0.0005
4/10/2017					<0.0005
6/19/2017					<0.0005
10/24/2017					<0.0005
4/10/2018					<0.0005
10/16/2018					<0.0005
8/20/2019					<0.0005
8/19/2020					<0.0005
8/20/2020	<0.0005	<0.0005			
9/29/2020					<0.0005
9/30/2020	<0.0005				
10/1/2020		<0.0005			
2/9/2021					<0.0005
2/10/2021	<0.0005				
2/11/2021		<0.0005	<0.0025	<0.0005	
9/7/2021					<0.0005
9/9/2021	<0.0005			<0.0005	
9/10/2021		<0.0005	<0.0025		
2/1/2022					<0.0005
2/2/2022			<0.0025		
2/3/2022	<0.0005	<0.0005		<0.0005	
9/1/2022					<0.0005
9/2/2022	<0.0005	<0.0005		<0.0005	
9/7/2022			0.000236 (J)		
1/31/2023	<0.0005	<0.0005	0.000296 (J)	<0.0005	<0.0005
8/8/2023	<0.0005	<0.0005	0.000272 (J)		<0.0005
8/9/2023				<0.0005	
1/23/2024			0.000378 (J)		<0.0005
1/24/2024	<0.0005	<0.0005		<0.0005	
8/20/2024	<0.0005	<0.0005	0.000318 (J)	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
8/29/2016	<0.0005				
8/30/2016		<0.0005			
10/24/2016	<0.0005				
10/26/2016		<0.0005			
1/25/2017	<0.0005	<0.0005			
4/10/2017	<0.0005	<0.0005			
6/19/2017		<0.0005			
6/20/2017	<0.0005				
10/24/2017	<0.0005	<0.0005			
4/9/2018	<0.0005				
4/10/2018		<0.0005			
10/16/2018	<0.0005	<0.0005			
8/20/2019	<0.0005	<0.0005			
12/16/2019			0.0005 (J)	0.00033 (J)	
1/14/2020			0.00036 (J)	<0.0005	
2/11/2020			0.00023	<0.0005	
3/9/2020			0.00019	<0.0005	
5/27/2020			0.00018 (J)	<0.0005	
7/15/2020			<0.0005	<0.0005	
8/19/2020	0.00022 (J)		<0.0005		
8/20/2020				<0.0005	
8/21/2020		<0.0005			
9/22/2020			<0.0005	<0.0005	
9/30/2020	0.00019 (J)		<0.0005		
10/1/2020		<0.0005		<0.0005	
2/9/2021	<0.0005				
2/10/2021		<0.0005	<0.0005	<0.0005	
9/8/2021	<0.0005	<0.0005			
9/9/2021				<0.0005	
9/10/2021			<0.0005		
2/1/2022	<0.0005	<0.0005			
2/2/2022			<0.0005		
2/3/2022				<0.0005	
9/1/2022		<0.0005			
9/2/2022	<0.0005				
9/6/2022			<0.0005	<0.0005	
1/31/2023		<0.0005	<0.0005	<0.0005	
2/1/2023	<0.0005				<0.0005
8/8/2023			<0.0005	<0.0005	<0.0005
8/9/2023		<0.0005			
8/10/2023	0.000275 (J)				
1/23/2024	<0.0005		<0.0005		<0.0005
1/24/2024		<0.0005		<0.0005	
8/20/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
8/29/2016					0.024 (J)
10/24/2016					0.0339 (J)
1/25/2017					0.048 (J)
4/10/2017					0.022 (J)
6/19/2017					<0.08
10/24/2017					0.021 (J)
4/10/2018					0.022 (J)
10/16/2018					<0.08
3/26/2019					<0.08
10/7/2019					<0.08
1/14/2020	1.1	1.8			
4/7/2020					0.072 (J)
6/24/2020	0.84	0.89			
6/25/2020					0.091
9/29/2020					<0.08
9/30/2020	0.98				
10/1/2020		0.95			
11/30/2020			2.1		
12/1/2020				0.4	
2/9/2021					<0.08
2/10/2021	0.94				
2/11/2021		0.98	2.4	0.53	
9/7/2021					<0.08
9/9/2021	1			0.53	
9/10/2021		0.85	2.6		
2/1/2022					0.092
2/2/2022			2.3		
2/3/2022	1.1	1		0.6	
9/1/2022					0.0238
9/2/2022	1.18	1.08		0.558	
9/7/2022			2.33		
1/31/2023	1.2	1.16	2.56	0.637	0.0234
8/8/2023	1.13	1.07	2.25		0.0199
8/9/2023				0.77	
1/23/2024			4.12		0.0214
1/24/2024	1.37	1.16		0.666	
8/20/2024	1.49	1.28	2.44	0.675	0.0236

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
8/29/2016	<0.08				
8/30/2016		0.57			
10/24/2016	0.0194 (J)				
10/26/2016		0.502			
1/25/2017	0.026 (J)	0.56			
4/10/2017	<0.08	0.54			
6/19/2017		0.54			
6/20/2017	0.032 (J)				
10/24/2017	0.054	0.57			
4/9/2018	0.06				
4/10/2018		0.61			
10/16/2018	0.036 (J)	0.59			
3/27/2019	0.046 (J)	0.65			
10/7/2019	<0.08				
10/8/2019		0.58			
12/16/2019			2.7	0.42	
1/14/2020			2.7	0.43	
2/11/2020			3	0.079 (J)	
3/9/2020			2.7	0.25	
4/6/2020	0.063 (J)				
4/7/2020		0.74	2.6	0.44	
5/27/2020			2.5	0.45	
6/24/2020			2.5		
6/25/2020	0.081	0.82		0.42	
7/15/2020			2.6	0.49	
8/19/2020			1.3		
8/20/2020				0.44	
9/22/2020			2.8	0.5	
9/30/2020	0.083		2.9		
10/1/2020		0.9		0.49	
2/9/2021	0.059 (J)				
2/10/2021		0.81	2.5	0.42	
9/8/2021	0.064 (J)	0.79			
9/9/2021				0.41	
9/10/2021			2.7		
2/1/2022	<0.08	0.85			
2/2/2022			2.4		
2/3/2022				0.49	
9/1/2022		0.921			
9/2/2022	0.0597				
9/6/2022			2.78	0.458	
1/31/2023		1.06	2.77	0.459	
2/1/2023	0.0816				0.055
8/8/2023			3.06	0.379	0.0666
8/9/2023		1.12			
8/10/2023	0.0714				
1/23/2024	0.0685		4.52		0.0549
1/24/2024		1.13		0.456	
8/20/2024	0.0537	1.13	3.09	0.434	0.049

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
5/5/2009					<0.001
12/5/2009					<0.001
6/1/2010					<0.001
11/11/2010					<0.001
5/17/2011					<0.001
11/8/2011					<0.001
5/16/2012					<0.001
5/14/2013					<0.001
11/5/2013					<0.001
6/9/2014					<0.001
11/19/2014					<0.001
4/14/2015					<0.001
11/4/2015					<0.001
6/22/2016					<0.001
8/29/2016					<0.001
10/24/2016					<0.001
1/25/2017					<0.001
4/10/2017					<0.001
6/19/2017					<0.001
10/24/2017					<0.001
4/10/2018					<0.001
10/16/2018					<0.001
3/26/2019					<0.001
8/20/2019					<0.001
10/7/2019					<0.001
4/7/2020					0.00034 (J)
8/19/2020					<0.001
8/20/2020	<0.001	<0.001			
2/9/2021					<0.001
2/10/2021	<0.001				
2/11/2021		<0.001	<0.001	<0.001	
9/7/2021					<0.001
9/9/2021	<0.001			<0.001	
9/10/2021		<0.001	<0.001		
2/1/2022					<0.001
2/2/2022			<0.001		
2/3/2022	<0.001	<0.001		<0.001	
9/1/2022					<0.001
9/2/2022	<0.001	<0.001		<0.001	
9/7/2022			<0.001		
1/31/2023	<0.001	<0.001	<0.001	<0.001	<0.001
8/8/2023	<0.001	<0.001	<0.001		<0.001
8/9/2023				<0.001	
1/23/2024			<0.001		<0.001
1/24/2024	<0.001	<0.001		<0.001	
8/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
5/14/2009		<0.001			
5/15/2009	<0.001				
12/5/2009	<0.001	<0.001			
6/1/2010	<0.001				
6/2/2010		<0.001			
11/11/2010	<0.001	<0.001			
5/17/2011	<0.001	<0.001			
11/8/2011	<0.001	<0.001			
5/16/2012	<0.001	<0.001			
5/14/2013	<0.001	<0.001			
11/5/2013	<0.001	<0.001			
6/9/2014	<0.001	<0.001			
11/18/2014	<0.001	<0.001			
4/14/2015	<0.001	<0.001			
10/29/2015		<0.001			
11/4/2015	<0.001				
6/22/2016	<0.001				
6/23/2016		<0.001			
8/29/2016	<0.001				
8/30/2016		<0.001			
10/24/2016	<0.001				
10/26/2016		<0.001			
1/25/2017	<0.001	<0.001			
4/10/2017	<0.001	<0.001			
6/19/2017		<0.001			
6/20/2017	<0.001				
10/24/2017	<0.001	<0.001			
4/9/2018	<0.001				
4/10/2018		<0.001			
10/16/2018	<0.001	<0.001			
3/27/2019	<0.001	<0.001			
8/20/2019	<0.001	<0.001			
10/7/2019	<0.001				
10/8/2019		<0.001			
12/16/2019			<0.001	<0.001	
1/14/2020			<0.001	<0.001	
2/11/2020			<0.001	<0.001	
3/9/2020			<0.001	<0.001	
4/6/2020	<0.001				
4/7/2020		<0.001	<0.001	<0.001	
5/27/2020			<0.001	<0.001	
7/15/2020			<0.001	<0.001	
8/19/2020	<0.001		<0.001		
8/20/2020				<0.001	
8/21/2020		<0.001			
9/22/2020			<0.001	<0.001	
2/9/2021	<0.001				
2/10/2021		<0.001	<0.001	<0.001	
9/8/2021	<0.001	<0.001			
9/9/2021				<0.001	
9/10/2021			<0.001		
2/1/2022	<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
2/2/2022			<0.001		
2/3/2022				<0.001	
9/1/2022		<0.001			
9/2/2022	<0.001				
9/6/2022			<0.001	<0.001	
1/31/2023		<0.001	<0.001	<0.001	
2/1/2023	<0.001				<0.001
8/8/2023			<0.001	<0.001	<0.001
8/9/2023		<0.001			
8/10/2023	<0.001				
1/23/2024	<0.001		<0.001		<0.001
1/24/2024		<0.001		<0.001	
8/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
8/29/2016					11
10/24/2016					11.5
1/25/2017					13
4/10/2017					11
6/19/2017					12
10/24/2017					12
4/10/2018					12
10/16/2018					14
3/26/2019					15
10/7/2019					14
4/7/2020					14
6/24/2020	81	89			
6/25/2020					14
9/29/2020					12
9/30/2020	100				
10/1/2020		91			
11/30/2020			260		
12/1/2020				81	
2/9/2021					9.7
2/10/2021	93				
2/11/2021		100	290	75	
9/7/2021					9.2
9/9/2021	93			71	
9/10/2021		130	290		
2/1/2022					8
2/2/2022			300		
2/3/2022	93	99		71	
9/1/2022					8.52
9/2/2022	80.5	89.2		61.4	
9/7/2022			264		
1/31/2023	87.7	92.5	299	69.8	8.5
8/8/2023	83.4	87.1	279		8.51
8/9/2023				78.6	
1/23/2024			357		9.34
1/24/2024	86.9	83.7		75.8	
8/20/2024	85.4	85.2	284	79.2	8.29

Time Series

Constituent: Calcium (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
8/29/2016	8.3				
8/30/2016		46			
10/24/2016	7.66				
10/26/2016		44.3			
1/25/2017	9.4	50			
4/10/2017	8.6	52			
6/19/2017		55			
6/20/2017	9.4				
10/24/2017	9.9	56			
4/9/2018	9.9				
4/10/2018		51			
10/16/2018	9.8	57			
3/27/2019	9.2	58			
10/7/2019	8.9				
10/8/2019		60			
12/16/2019			200	69	
1/14/2020			210	65	
2/11/2020			180	10	
3/9/2020			180	46	
4/6/2020	9.5				
4/7/2020		69	190	65	
5/27/2020			200	69	
6/24/2020			180		
6/25/2020	9.6	80		72	
7/15/2020			190	68	
8/19/2020			220		
8/20/2020				69	
9/22/2020			190	66	
9/30/2020	9.9		200		
10/1/2020		79		73	
2/9/2021	9.2				
2/10/2021		76	200	67	
9/8/2021	11	81			
9/9/2021				70	
9/10/2021			200		
2/1/2022	8.3	75			
2/2/2022			190		
2/3/2022				71	
9/1/2022		71.5			
9/2/2022	9.48				
9/6/2022			162	65.2	
1/31/2023		79.1	207	69.9	
2/1/2023	10.8				145
8/8/2023			196	66.6	146
8/9/2023		82.9			
8/10/2023	11				
1/23/2024	11.4		183		167
1/24/2024		82.6		75.6	
8/20/2024	10.6	78	194	79.6	160

Time Series

Constituent: Chloride (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
5/5/2009					11.1
12/5/2009					9.46
6/1/2010					6.32
11/11/2010					7.16
5/17/2011					6.84
11/8/2011					9.13
5/16/2012					10.8
5/14/2013					16.2
11/5/2013					14.8
6/9/2014					13.6
4/14/2015					10.4
11/4/2015					9.19
6/22/2016					8.4
8/29/2016					8.4
10/24/2016					9.6
1/25/2017					8.7
4/10/2017					8
6/19/2017					7.6
10/24/2017					7.2
4/10/2018					7.2
10/16/2018					10
3/26/2019					12
10/7/2019					11
4/7/2020					11
6/24/2020	5.3	4.3			
6/25/2020					11
9/29/2020					10
9/30/2020	5.2				
10/1/2020		4.2			
11/30/2020			6.3		
12/1/2020				12	
2/9/2021					8.6
2/10/2021	5.3				
2/11/2021		4.4	5.9	12	
9/7/2021					7.4
9/9/2021	4.5			7.4	
9/10/2021		4.2	6.5		
2/1/2022					6.8
2/2/2022			5.7		
2/3/2022	5.3	4.1		8.1	
9/1/2022					6.27
9/2/2022	3.5	3.54		5.31	
9/7/2022			5.78		
1/31/2023	4.36	3.4	5.82	5.3	6.04
8/8/2023	3.61	3.35	5.5		6.37
8/9/2023				5.13	
1/23/2024			5.11		5.63
1/24/2024	3.43	3.31		4.96	
8/20/2024	3.27	3.24	5.13	4.54	4.89

Time Series

Constituent: Chloride (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
5/14/2009		6.38			
5/15/2009	6.86				
12/5/2009	5.06	6.28			
6/1/2010	5.47				
6/2/2010		6.1			
11/11/2010	5.26	6.1461			
5/17/2011	4.8	6.17			
11/8/2011	5.62	6.6			
5/16/2012	5.1	6.18			
5/14/2013	5.25	6.32			
11/5/2013	5.19	5.65			
6/9/2014	5.55	6.08			
4/14/2015	5.39	5.43			
10/29/2015		5.62			
11/4/2015	5.38				
6/22/2016	5.7				
6/23/2016		5.9			
8/29/2016	5.3				
8/30/2016		5.5			
10/24/2016	5.4				
10/26/2016		6			
1/25/2017	5.1	5.4			
4/10/2017	4.9	5.1			
6/19/2017		5.2			
6/20/2017	5				
10/24/2017	4.6	4.9			
4/9/2018	4.7				
4/10/2018		4.8			
10/16/2018	5.3	5.1			
3/27/2019	4.6	4.4			
10/7/2019	5.2				
10/8/2019		4.5			
12/16/2019			5.8	3.9	
1/14/2020			5.5	4	
2/11/2020			9	4.7	
3/9/2020			11	3.7	
4/6/2020	5.2				
4/7/2020		4.2	8.1	3.8	
5/27/2020			7.3	4	
6/24/2020			5.7		
6/25/2020	5.1	3.7		3.4	
7/15/2020			6	3.9	
8/19/2020			5.7		
8/20/2020				3.9	
9/22/2020			7.1	3.6	
9/30/2020	5.6		8		
10/1/2020		4.3		3.8	
2/9/2021	6				
2/10/2021		4.3	7.4	4.6	
9/8/2021	5.9	4			
9/9/2021				4.7	
9/10/2021			6.7		

Time Series

Constituent: Chloride (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
2/1/2022	5.7	3.4			
2/2/2022			6.3		
2/3/2022				4.4	
9/1/2022		3.34			
9/2/2022	5.44				
9/6/2022			8.34	3.73	
1/31/2023		3.3	5.88	3.84	
2/1/2023	6				37.2
8/8/2023			6.79	3.6	36.1
8/9/2023		3.35			
8/10/2023	6.5				
1/23/2024	6.68		7.31		32.9
1/24/2024		3.35		3.74	
8/20/2024	7.63	3.18	7.25	3.68	35.2

Time Series

Constituent: Chromium (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
8/29/2016					0.0011 (J)
10/24/2016					0.001 (J)
1/25/2017					0.0013 (J)
4/10/2017					<0.01
6/19/2017					0.0013 (J)
10/24/2017					0.0012 (J)
4/10/2018					0.0015 (J)
10/16/2018					0.0014 (J)
8/20/2019					0.0024
10/7/2019					<0.01
4/7/2020					<0.01
8/19/2020					<0.01
8/20/2020	<0.01	<0.01			
9/29/2020					<0.01
9/30/2020	<0.01				
10/1/2020		<0.01			
2/9/2021					0.0015 (J)
2/10/2021	<0.01				
2/11/2021		<0.01	<0.01	<0.01	
9/7/2021					<0.01
9/9/2021	<0.01			<0.01	
9/10/2021		<0.01	<0.01		
2/1/2022					0.0029
2/2/2022			<0.01		
2/3/2022	<0.01	<0.01		<0.01	
9/1/2022					<0.01
9/2/2022	<0.01	<0.01		<0.01	
9/7/2022			<0.01		
1/31/2023	<0.01	<0.01	<0.01	<0.01	<0.01
8/8/2023	<0.01	<0.01	<0.01		<0.01
8/9/2023				<0.01	
1/23/2024			<0.01		<0.01
1/24/2024	<0.01	<0.01		<0.01	
8/20/2024	<0.01	<0.01	<0.01	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
8/29/2016	0.0052				
8/30/2016		<0.01			
10/24/2016	0.0053 (J)				
10/26/2016		<0.01			
1/25/2017	0.0056	<0.01			
4/10/2017	0.0047	<0.01			
6/19/2017		<0.01			
6/20/2017	0.0051				
10/24/2017	0.0056	<0.01			
4/9/2018	0.0071				
4/10/2018		<0.01			
10/16/2018	0.0071	<0.01			
8/20/2019	0.0078	0.0017 (J)			
10/7/2019	0.0059				
10/8/2019		<0.01			
12/16/2019			<0.01	<0.01	
1/14/2020			<0.01	<0.01	
2/11/2020			0.0048	<0.01	
3/9/2020			<0.01	<0.01	
4/6/2020	0.0057				
4/7/2020		<0.01	<0.01	<0.01	
5/27/2020			<0.01	<0.01	
7/15/2020			<0.01	<0.01	
8/19/2020	0.0063		<0.01		
8/20/2020				<0.01	
8/21/2020		<0.01			
9/22/2020			<0.01	<0.01	
9/30/2020	0.0057		<0.01		
10/1/2020		<0.01		<0.01	
2/9/2021	0.0059				
2/10/2021		<0.01	<0.01	<0.01	
9/8/2021	0.0059	<0.01			
9/9/2021				<0.01	
9/10/2021			<0.01		
2/1/2022	0.0054	<0.01			
2/2/2022			<0.01		
2/3/2022				<0.01	
9/1/2022		<0.01			
9/2/2022	0.00578 (J)				
9/6/2022			<0.01	<0.01	
1/31/2023		<0.01	<0.01	<0.01	
2/1/2023	0.00682 (J)				<0.01
8/8/2023			<0.01	<0.01	<0.01
8/9/2023		<0.01			
8/10/2023	0.00684 (J)				
1/23/2024	0.00682 (J)		<0.01		<0.01
1/24/2024		<0.01		<0.01	
8/20/2024	0.00598 (J)	<0.01	<0.01	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
8/29/2016					<0.001
10/24/2016					<0.001
1/25/2017					<0.001
4/10/2017					<0.001
6/19/2017					<0.001
10/24/2017					<0.001
4/10/2018					<0.001
10/16/2018					<0.001
8/20/2019					0.00011 (J)
10/7/2019					0.00011 (J)
4/7/2020					0.00038 (J)
6/24/2020	0.00097 (J)	0.0027			
6/25/2020					<0.001
8/19/2020					<0.001
8/20/2020	0.001 (J)	0.0022 (J)			
9/29/2020					<0.001
9/30/2020	0.001 (J)				
10/1/2020		0.0036			
11/30/2020			0.028		
12/1/2020				0.0054	
2/9/2021					0.00016 (J)
2/10/2021	0.00082 (J)				
2/11/2021		0.0028	0.017	0.0061	
9/7/2021					<0.001
9/9/2021	0.00072 (J)			0.0046	
9/10/2021		0.0022 (J)	0.075		
2/1/2022					<0.001
2/2/2022			0.077		
2/3/2022	0.00045 (J)	0.0028		0.0028	
9/1/2022					<0.001
9/2/2022	0.000449 (J)	0.002		0.00292	
9/7/2022			0.0737		
1/31/2023	0.000399 (J)	0.00282	0.0687	0.00321	<0.001
8/8/2023	0.00035 (J)	0.00223	0.0605		<0.001
8/9/2023				0.00364	
1/23/2024			0.0597		<0.001
1/24/2024	0.000331 (J)	0.00249		0.00203	
8/20/2024	<0.001	0.00166	0.0702	0.00277	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
8/29/2016	<0.001				
8/30/2016		0.0018 (J)			
10/24/2016	<0.001				
10/26/2016		0.0018 (J)			
1/25/2017	0.00076 (J)	0.0017 (J)			
4/10/2017	<0.001	0.0016 (J)			
6/19/2017		0.0021 (J)			
6/20/2017	<0.001				
10/24/2017	<0.001	0.0019 (J)			
4/9/2018	<0.001				
4/10/2018		0.0019 (J)			
10/16/2018	<0.001	0.0019 (J)			
8/20/2019	0.00015 (J)	0.0023			
10/7/2019	<0.001				
10/8/2019		0.0018			
12/16/2019			0.018	0.0023	
1/14/2020			0.0072	0.0031	
2/11/2020			0.013	0.00056	
3/9/2020			0.015	0.00061 (J)	
4/6/2020	0.00039 (J)				
4/7/2020		0.00087	0.009	0.0016	
5/27/2020			0.0059	0.0017 (J)	
6/24/2020			0.0047		
6/25/2020	0.00015 (J)	0.00097 (J)		0.0014 (J)	
7/15/2020			0.0027	0.0017 (J)	
8/19/2020	0.00064 (J)		0.0032		
8/20/2020				0.0023 (J)	
8/21/2020		0.00066 (J)			
9/22/2020			0.0085	0.0036	
9/30/2020	0.00031 (J)		0.0055		
10/1/2020		0.00082 (J)		0.0052	
2/9/2021	0.00038 (J)				
2/10/2021		0.00063 (J)	0.0015 (J)	0.00072 (J)	
9/8/2021	0.0005 (J)	0.0007 (J)			
9/9/2021				0.0009 (J)	
9/10/2021			0.0015 (J)		
2/1/2022	<0.001	0.0007 (J)			
2/2/2022			0.001 (J)		
2/3/2022				0.00063 (J)	
9/1/2022		0.00069 (J)			
9/2/2022	<0.001				
9/6/2022			0.00198	0.000588 (J)	
1/31/2023		0.000659 (J)	0.00154	0.000742 (J)	
2/1/2023	0.000458 (J)				<0.001
8/8/2023			0.00184	0.00044 (J)	<0.001
8/9/2023		0.000813 (J)			
8/10/2023	0.000814 (J)				
1/23/2024	<0.001		0.00408		<0.001
1/24/2024		0.00106		<0.001	
8/20/2024	<0.001	0.000769 (J)	0.00279	0.000484 (J)	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
8/29/2016					0.324 (U)
10/24/2016					1.17 (U)
1/25/2017					0.443 (U)
4/10/2017					0.483
6/19/2017					0.478
10/24/2017					0.764
4/10/2018					0.3 (U)
10/16/2018					0.991
8/20/2019					0.498
10/7/2019					0.476 (U)
4/7/2020					0.651
8/19/2020					0.294 (U)
8/20/2020	0.527	4.13			
9/29/2020					0.372 (U)
9/30/2020	0.249 (U)				
10/1/2020		2.86			
2/9/2021					0.466 (U)
2/10/2021	0.949				
2/11/2021		2.09	5.1	0.285 (U)	
9/7/2021					0.31 (U)
9/9/2021	0.972			0.16 (U)	
9/10/2021		3.4	4.23		
2/1/2022					0.319 (U)
2/2/2022			4.48		
2/3/2022	1.04	2.69		0.51	
9/1/2022					0.913
9/2/2022	3.41	4.18		1.89	
9/7/2022			4.29		
1/31/2023	4.1	4.3	5.21	3.2	2.33
8/8/2023	1.16 (U)	1.86	4.83		1.8
8/9/2023				0.193 (U)	
1/23/2024			4.65		1.73
1/24/2024	9.3	10.3		2.87	
8/20/2024	2.47	2.98	3.47	<2.19 (D)	2.65

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
8/29/2016	0.508 (U)				
8/30/2016		0.832			
10/24/2016	1.46				
10/26/2016		1.27			
1/25/2017	0.377 (U)	0.549			
4/10/2017	0.132 (U)	0.556			
6/19/2017		0.976			
6/20/2017	1.17				
10/24/2017	0.704	0.504			
4/9/2018	0.539				
4/10/2018		0.621			
10/16/2018	0.354 (U)	0.796			
8/20/2019	0.53	0.978			
10/7/2019	0.621 (U)				
10/8/2019		0.588			
12/16/2019			0.229 (U)	0.166 (U)	
1/14/2020			0.783	0.869	
2/11/2020			0.229 (U)	0.0291 (U)	
3/9/2020			0.365	0.626	
4/6/2020	0.072 (U)				
4/7/2020		0.433 (U)	0.567	0.296 (U)	
5/27/2020			0.143 (U)	0.192 (U)	
7/15/2020			0.97	0.279 (U)	
8/19/2020	0.94		0.587 (U)		
8/20/2020				0.242 (U)	
8/21/2020		0.472			
9/22/2020			0.884	0.0177 (U)	
9/30/2020	0.679		0.602		
10/1/2020		0.496 (U)		0.749	
2/9/2021	-0.0396 (U)				
2/10/2021		0.625	0.233 (U)	0.0408 (U)	
9/8/2021	0.44 (U)	1.12			
9/9/2021				0.498	
9/10/2021			0.713		
2/1/2022	-0.00713 (U)	0.331 (U)			
2/2/2022			0.195 (U)		
2/3/2022				0.248 (U)	
9/1/2022		1.57			
9/2/2022	0.783				
9/6/2022			2.58	2.36	
1/31/2023		3.25	2.2	0.859 (U)	
2/1/2023	2.18				0.413 (U)
8/8/2023			1.22 (U)	0.363 (U)	3.92
8/9/2023		2.69			
8/10/2023	1.8				
1/23/2024	2.5		2.1		2.96
1/24/2024		5.34		2.73	
8/20/2024	<1.5	<3.22	<1.92	2.1	2.8

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
8/29/2016					<0.1
10/24/2016					0.07 (J)
1/25/2017					<0.1
4/10/2017					<0.1
6/19/2017					<0.1
10/24/2017					<0.1
4/10/2018					<0.1
10/16/2018					0.083 (J)
3/26/2019					0.041 (J)
8/20/2019					0.045 (J)
10/7/2019					0.049 (J)
4/7/2020					0.14
6/24/2020	0.21	0.11			
6/25/2020					0.03 (J)
8/19/2020					<0.1
8/20/2020	0.23	<0.1			
9/29/2020					0.051 (J)
9/30/2020	0.2				
10/1/2020		0.098 (J)			
11/30/2020			0.044 (J)		
12/1/2020				0.14	
2/9/2021					0.059 (J)
2/10/2021	0.21				
2/11/2021		0.12	0.054 (J)	0.24	
9/7/2021					0.1
9/9/2021	0.21			0.19	
9/10/2021		0.13	0.032 (J)		
2/1/2022					0.076 (J)
2/2/2022			<0.1		
2/3/2022	0.16	0.095 (J)		0.17	
9/1/2022					0.148
9/2/2022	0.18	0.146		0.206	
9/7/2022			<0.1		
1/31/2023	0.22 (J)	0.13 (J)	0.11 (J)	0.263 (J)	0.108 (J)
8/8/2023	0.118	0.0571 (J)	<0.1		<0.1
8/9/2023				0.261	
1/23/2024			0.126		0.121
1/24/2024	0.199	0.171		0.222	
8/20/2024	0.169	0.123	0.118 (J)	0.199	0.0679 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
8/29/2016	<0.1				
8/30/2016		0.099 (J)			
10/24/2016	0.04 (J)				
10/26/2016		0.57			
1/25/2017	<0.1	0.12 (J)			
4/10/2017	<0.1	0.11 (J)			
6/19/2017		0.11 (J)			
6/20/2017	<0.1				
10/24/2017	<0.1	0.1 (J)			
4/9/2018	<0.1				
4/10/2018		0.094 (J)			
10/16/2018	<0.1	0.17 (J)			
3/27/2019	<0.1	0.05 (J)			
8/20/2019	0.042 (J)	0.098 (J)			
10/7/2019	0.036 (J)				
10/8/2019		0.065 (J)			
12/16/2019			0.026 (J)	0.18 (J)	
1/14/2020			<0.2	0.21	
2/11/2020			0.056	0.13	
3/9/2020			0.064 (J)	0.089 (J)	
4/6/2020	0.059 (J)				
4/7/2020		0.12	0.068 (J)	0.18	
5/27/2020			0.06 (J)	0.25	
6/24/2020			0.048 (J)		
6/25/2020	<0.1	0.041 (J)		0.25	
7/15/2020			0.04 (J)	0.28	
8/19/2020	<0.1		<0.2		
8/20/2020				0.19	
8/21/2020		0.084 (J)			
9/22/2020			0.049 (J)	0.33	
9/30/2020	0.032 (J)		0.045 (J)		
10/1/2020		0.098 (J)		0.32	
2/9/2021	0.048 (J)				
2/10/2021		0.14	0.055 (J)	0.41	
9/8/2021	0.067 (J)	0.16			
9/9/2021				0.48	
9/10/2021			0.035 (J)		
2/1/2022	0.028 (J)	0.11			
2/2/2022			0.04 (J)		
2/3/2022				0.4	
9/1/2022		0.161			
9/2/2022	0.122				
9/6/2022			0.056 (J)	0.362	
1/31/2023		0.175 (J)	0.0979 (J)	0.551 (J)	
2/1/2023	0.121				0.938
8/8/2023			<0.2	0.283	0.837
8/9/2023		0.203			
8/10/2023	<0.1				
1/23/2024	0.113		0.134		0.971
1/24/2024		0.173		0.391	
8/20/2024	0.0488 (J)	0.124	0.066 (J)	0.365	0.889

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/1/2024 9:21 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
5/5/2009					<0.002
12/5/2009					<0.002
6/1/2010					<0.002
11/11/2010					<0.002
5/17/2011					<0.002
11/8/2011					<0.002
5/16/2012					<0.002
5/14/2013					<0.002
11/5/2013					<0.002
6/9/2014					<0.002
11/19/2014					<0.002
4/14/2015					<0.002
11/4/2015					<0.002
6/22/2016					<0.002
8/29/2016					<0.002
10/24/2016					<0.002
1/25/2017					<0.002
4/10/2017					<0.002
6/19/2017					<0.002
10/24/2017					<0.002
4/10/2018					<0.002
10/16/2018					<0.002
3/26/2019					<0.002
8/20/2019					<0.002
10/7/2019					0.00018 (J)
4/7/2020					0.00037 (J)
8/19/2020					<0.002
8/20/2020	<0.002	<0.002			
9/29/2020					<0.002
9/30/2020	<0.002				
10/1/2020		<0.002			
2/9/2021					<0.002
2/10/2021	<0.002				
2/11/2021		<0.002	0.00013 (J)	<0.002	
9/7/2021					<0.002
9/9/2021	<0.002			<0.002	
9/10/2021		<0.002	<0.002		
2/1/2022					<0.002
2/2/2022			<0.002		
2/3/2022	<0.002	<0.002		<0.002	
9/1/2022					<0.002
9/2/2022	<0.002	<0.002		<0.002	
9/7/2022			<0.002		
1/31/2023	<0.002	<0.002	<0.002	<0.002	<0.002
8/8/2023	<0.002	<0.002	<0.002		<0.002
8/9/2023				<0.002	
1/23/2024			<0.002		<0.002
1/24/2024	<0.002	<0.002		<0.002	
8/20/2024	<0.002	<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/1/2024 9:21 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
5/14/2009		<0.002			
5/15/2009	<0.002				
12/5/2009	<0.002	<0.002			
6/1/2010	<0.002				
6/2/2010		<0.002			
11/11/2010	<0.002	<0.002			
5/17/2011	<0.002	<0.002			
11/8/2011	<0.002	<0.002			
5/16/2012	<0.002	<0.002			
5/14/2013	<0.002	<0.002			
11/5/2013	<0.002	<0.002			
6/9/2014	<0.002	<0.002			
11/18/2014	<0.002	<0.002			
4/14/2015	<0.002	<0.002			
10/29/2015		<0.002			
11/4/2015	<0.002				
6/22/2016	<0.002				
6/23/2016		<0.002			
8/29/2016	<0.002				
8/30/2016		<0.002			
10/24/2016	<0.002				
10/26/2016		<0.002			
1/25/2017	0.00037 (J)	<0.002			
4/10/2017	<0.002	<0.002			
6/19/2017		<0.002			
6/20/2017	<0.002				
10/24/2017	<0.002	<0.002			
4/9/2018	<0.002				
4/10/2018		<0.002			
10/16/2018	<0.002	<0.002			
3/27/2019	<0.002	<0.002			
8/20/2019	<0.002	<0.002			
10/7/2019	0.00014 (J)				
10/8/2019		0.00015 (J)			
12/16/2019			<0.002	<0.002	
1/14/2020			0.00022 (J)	0.00018 (J)	
2/11/2020			<0.002	0.00026 (J)	
3/9/2020			<0.002	<0.002	
4/6/2020	0.00033 (J)				
4/7/2020		0.00026 (J)	0.00014 (J)	<0.002	
5/27/2020			<0.002	<0.002	
7/15/2020			<0.002	<0.002	
8/19/2020	0.00039 (J)		<0.002		
8/20/2020				<0.002	
8/21/2020		<0.002			
9/22/2020			<0.002	<0.002	
9/30/2020	0.00022 (J)		<0.002		
10/1/2020		<0.002		<0.002	
2/9/2021	0.00033 (J)				
2/10/2021		<0.002	<0.002	<0.002	
9/8/2021	0.00024 (J)	<0.002			
9/9/2021				<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/1/2024 9:21 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
9/10/2021			<0.002		
2/1/2022	<0.002	<0.002			
2/2/2022			<0.002		
2/3/2022				<0.002	
9/1/2022		<0.002			
9/2/2022	<0.002				
9/6/2022			<0.002	<0.002	
1/31/2023		<0.002	<0.002	<0.002	
2/1/2023	<0.002				<0.002
8/8/2023			<0.002	<0.002	<0.002
8/9/2023		<0.002			
8/10/2023	<0.002				
1/23/2024	<0.002		<0.002		<0.002
1/24/2024		<0.002		<0.002	
8/20/2024	<0.002	<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/1/2024 9:21 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
8/29/2016					0.0048 (J)
10/24/2016					<0.05
1/25/2017					0.0052
4/10/2017					0.0034 (J)
6/19/2017					0.0036 (J)
10/24/2017					0.0051
4/10/2018					0.0057
10/16/2018					0.0048 (J)
8/20/2019					0.0044 (J)
10/7/2019					0.013
1/14/2020	0.009	0.086			
4/7/2020					0.0053
6/24/2020	0.0084	0.018			
6/25/2020					0.0053
8/19/2020					0.0038 (J)
8/20/2020	0.0066	0.036			
9/29/2020					0.0041 (J)
9/30/2020	0.0091				
10/1/2020		0.019			
11/30/2020			0.061		
12/1/2020				0.0044 (J)	
2/9/2021					0.0038 (J)
2/10/2021	0.0097				
2/11/2021		0.021	0.061	0.0055	
9/7/2021					0.0034 (J)
9/9/2021	0.0095			0.0062	
9/10/2021		0.025	0.06		
2/1/2022					0.0039 (J)
2/2/2022			0.06		
2/3/2022	0.0099	0.021		0.0063	
9/1/2022					0.00359 (J)
9/2/2022	0.0097 (J)	0.0232		0.00654 (J)	
9/7/2022			0.0634		
1/31/2023	0.0099 (J)	0.0202	0.068	0.00659 (J)	0.00424 (J)
8/8/2023	0.00909 (J)	0.0193	0.0577		0.00382 (J)
8/9/2023				0.00637 (J)	
1/23/2024			0.0779		0.0044 (J)
1/24/2024	0.0106	0.0172		0.00669 (J)	
8/20/2024	0.00934 (J)	0.0145	0.0585	0.00586 (J)	0.00376 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/1/2024 9:21 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
8/29/2016	<0.01				
8/30/2016		0.0092			
10/24/2016	<0.01				
10/26/2016		0.0071 (J)			
1/25/2017	<0.01	0.0087			
4/10/2017	<0.01	0.0074			
6/19/2017		0.0079			
6/20/2017	<0.01				
10/24/2017	<0.01	0.0097			
4/9/2018	0.0021 (J)				
4/10/2018		0.012			
10/16/2018	0.0018 (J)	0.01			
8/20/2019	<0.01	0.0098			
10/7/2019	0.0066				
10/8/2019		0.015			
12/16/2019			0.027	0.02	
1/14/2020			0.034	0.022	
2/11/2020			0.01	0.0078	
3/9/2020			0.0071	0.013	
4/6/2020	<0.01				
4/7/2020		0.011	0.012	0.032	
5/27/2020			0.017	0.037	
6/24/2020			0.023		
6/25/2020	<0.01	0.013		0.043	
7/15/2020			0.021	0.042	
8/19/2020	<0.01		0.026		
8/20/2020				0.036	
8/21/2020		0.013			
9/22/2020			0.014	0.039	
9/30/2020	<0.01		0.014		
10/1/2020		0.012		0.04	
2/9/2021	<0.01				
2/10/2021		0.012	0.022	0.044	
9/8/2021	<0.01	0.012			
9/9/2021				0.045	
9/10/2021			0.021		
2/1/2022	0.0015 (J)	0.012			
2/2/2022			0.02		
2/3/2022				0.052	
9/1/2022		0.0116			
9/2/2022	<0.01				
9/6/2022			0.0136	0.0578	
1/31/2023		0.0124	0.0284	0.0499	
2/1/2023	<0.01				0.00463 (J)
8/8/2023			0.028	0.0517	0.00907 (J)
8/9/2023		0.0131			
8/10/2023	<0.01				
1/23/2024	<0.01		0.0125		0.00862 (J)
1/24/2024		0.0131		0.0547	
8/20/2024	<0.01	0.0119	0.02	0.0469	0.00958 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
8/29/2016					<0.0002
10/24/2016					<0.0002
1/25/2017					7.7E-05 (J)
4/10/2017					<0.0002
6/19/2017					<0.0002
10/24/2017					<0.0002
4/10/2018					<0.0002
10/16/2018					<0.0002
8/20/2019					<0.0002
8/19/2020					<0.0002
8/20/2020	<0.0002	<0.0002			
9/7/2021					<0.0002
9/9/2021	<0.0002			<0.0002	
9/10/2021		<0.0002	<0.0002		
2/1/2022					<0.0002
2/2/2022			<0.0002		
2/3/2022	<0.0002	<0.0002		<0.0002	
9/1/2022					<0.0002
9/2/2022	<0.0002	<0.0002		<0.0002	
9/7/2022			<0.0002		
1/31/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/8/2023	<0.0002	<0.0002	<0.0002		<0.0002
8/9/2023				<0.0002	
1/23/2024			<0.0002		<0.0002
1/24/2024	<0.0002	<0.0002		<0.0002	
8/20/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
8/29/2016	<0.0002				
8/30/2016		<0.0002			
10/24/2016	<0.0002				
10/26/2016		<0.0002			
1/25/2017	7.2E-05 (J)	7.3E-05 (J)			
4/10/2017	<0.0002	<0.0002			
6/19/2017		<0.0002			
6/20/2017	<0.0002				
10/24/2017	<0.0002	<0.0002			
4/9/2018	<0.0002				
4/10/2018		<0.0002			
10/16/2018	<0.0002	<0.0002			
8/20/2019	<0.0002	<0.0002			
12/16/2019			<0.0002	<0.0002	
1/14/2020			<0.0002	<0.0002	
2/11/2020			<0.0002	<0.0002	
3/9/2020			<0.0002	<0.0002	
5/27/2020			<0.0002	<0.0002	
7/15/2020			<0.0002	<0.0002	
8/19/2020	<0.0002		<0.0002		
8/20/2020				<0.0002	
8/21/2020		<0.0002			
9/22/2020			<0.0002	<0.0002	
10/1/2020				<0.0002	
9/8/2021	<0.0002	<0.0002			
9/9/2021				<0.0002	
9/10/2021			<0.0002		
2/1/2022	<0.0002	<0.0002			
2/2/2022			<0.0002		
2/3/2022				<0.0002	
9/1/2022		<0.0002			
9/2/2022	<0.0002				
9/6/2022			<0.0002	<0.0002	
1/31/2023		<0.0002	<0.0002	<0.0002	
2/1/2023	<0.0002				<0.0002
8/8/2023			<0.0002	<0.0002	<0.0002
8/9/2023		<0.0002			
8/10/2023	<0.0002				
1/23/2024	<0.0002		0.000372		<0.0002
1/24/2024		<0.0002		<0.0002	
8/20/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
8/29/2016					<0.015
10/24/2016					<0.015
1/25/2017					<0.015
4/10/2017					<0.015
6/19/2017					<0.015
10/24/2017					<0.015
4/10/2018					0.00096 (J)
10/16/2018					<0.015
8/20/2019					<0.015
6/24/2020	0.0051 (J)	<0.015			
6/25/2020					<0.015
8/19/2020					<0.015
8/20/2020	0.0076 (J)	0.0013 (J)			
9/29/2020					<0.015
9/30/2020	0.0054 (J)				
10/1/2020		<0.015			
11/30/2020			0.0012 (J)		
12/1/2020				0.056	
2/9/2021					<0.015
2/10/2021	0.0043 (J)				
2/11/2021		<0.015	<0.001	0.038	
9/7/2021					<0.015
9/9/2021	0.0059 (J)			0.12	
9/10/2021		<0.015	<0.001		
2/1/2022					0.00067 (J)
2/2/2022			<0.001		
2/3/2022	0.0049 (J)	<0.015		0.16	
9/1/2022					0.000501 (J)
9/2/2022	0.00785	0.000603 (J)		0.175	
9/7/2022			0.000379 (J)		
1/31/2023	0.00974	0.000491 (J)	<0.001	0.188	0.000395 (J)
8/8/2023	0.00667	0.0011	<0.001		0.000421 (J)
8/9/2023				0.203	
1/23/2024			<0.001		0.00048 (J)
1/24/2024	0.00937	0.00101		0.196	
8/20/2024	0.00873	0.000585 (J)	0.000257 (J)	0.195	0.000375 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
8/29/2016	<0.001				
8/30/2016		<0.001			
10/24/2016	<0.001				
10/26/2016		<0.001			
1/25/2017	<0.001	<0.001			
4/10/2017	<0.001	<0.001			
6/19/2017		<0.001			
6/20/2017	<0.001				
10/24/2017	<0.001	<0.001			
4/9/2018	<0.001				
4/10/2018		<0.001			
10/16/2018	<0.001	<0.001			
8/20/2019	<0.001	<0.001			
12/16/2019			0.0018 (J)	0.025	
1/14/2020			0.0012 (J)	0.032	
2/11/2020			0.00093	0.021	
3/9/2020			0.00067	0.013 (J)	
5/27/2020			<0.015	0.048	
6/24/2020			<0.015		
6/25/2020	<0.001	<0.001		0.055	
7/15/2020			<0.015	0.055	
8/19/2020	<0.001		<0.015		
8/20/2020				0.061	
8/21/2020		<0.001			
9/22/2020			<0.015	0.053	
9/30/2020	<0.001		<0.015		
10/1/2020		<0.001		0.064	
2/9/2021	<0.001				
2/10/2021		<0.001	<0.015	0.063	
9/8/2021	<0.001	<0.001			
9/9/2021				0.071	
9/10/2021			<0.015		
2/1/2022	<0.001	<0.001			
2/2/2022			<0.015		
2/3/2022				0.065	
9/1/2022		<0.001			
9/2/2022	<0.001				
9/6/2022			0.000203 (J)	0.067	
1/31/2023		<0.001	0.000496 (J)	0.0671	
2/1/2023	<0.001				0.014
8/8/2023			0.000514 (J)	0.0618	0.0109
8/9/2023		<0.001			
8/10/2023	<0.001				
1/23/2024	<0.001		0.00025 (J)		0.00683
1/24/2024		<0.001		0.0651	
8/20/2024	<0.001	<0.001	0.000406 (J)	0.074	0.00237

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH (SU) Analysis Run 9/26/2024 12:30 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
8/29/2016					6.75 (o)
10/24/2016					5.81
1/25/2017					5.91
4/10/2017					5.74
6/19/2017					5.54
10/24/2017					5.82
4/10/2018					5.92
10/16/2018					5.94
3/26/2019					5.85
8/20/2019					5.9
10/7/2019					5.89
1/14/2020	6.07	6.12			
4/7/2020					5.72
6/24/2020	6.31	6.19			
6/25/2020					5.8
8/19/2020					6.25
8/20/2020	6.09	5.99			
9/29/2020					5.83
9/30/2020	6.16				
10/1/2020		5.96			
11/30/2020			6		
12/1/2020				7.05	
2/9/2021					5.97
2/10/2021	6.16				
2/11/2021		6	5.67	6.95	
9/7/2021					5.85
9/9/2021	6.1			6.56	
9/10/2021		6.01	5.7		
2/1/2022					5.52
2/2/2022			5.58		
2/3/2022	6.11	6.01		6.59	
9/1/2022					5.88
9/2/2022	6.04	6		6.44	
9/7/2022			5.57		
1/31/2023	6.36	6.18	5.54	6.44	5.86
8/8/2023	6.38	6.01	5.47		5.81
8/9/2023				8.71	
1/23/2024			5.57		5.93
1/24/2024	6.12	6.1		6.47	
8/20/2024	6.13	6.08	5.62	6.47	5.93

Time Series

Constituent: pH (SU) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
8/29/2016	5.64				
8/30/2016		6.38			
10/24/2016	5.6				
10/26/2016		6.23			
1/25/2017	5.65	6.15			
4/10/2017	5.42	5.99			
6/19/2017		5.95			
6/20/2017	5.59				
10/24/2017	5.58	6.02			
4/9/2018	5.78				
4/10/2018		6.12			
10/16/2018	5.69	6.12			
3/27/2019	5.96	6.2			
8/20/2019	5.57	6.08			
10/7/2019	5.65				
10/8/2019		6.11			
12/16/2019			5.74	6.41	
1/14/2020			5.91	6.62	
2/11/2020			5.9	6.71	
3/9/2020			5.97	6.32	
4/6/2020	5.53				
4/7/2020		5.96	5.84	6.4	
5/27/2020			5.69	6.3	
6/24/2020			5.82		
6/25/2020	5.61	5.98		6.37	
7/15/2020			5.58	6.36	
8/19/2020	6.16		6.21		
8/20/2020				6.33	
8/21/2020		5.89			
9/22/2020			5.77	6.29	
9/30/2020	5.65		5.81		
10/1/2020		5.99		6.38	
2/9/2021	5.66				
2/10/2021		6.01	5.68	6.37	
9/8/2021	5.59	5.94			
9/9/2021				6.35	
9/10/2021			5.62		
2/1/2022	5.14	5.65			
2/2/2022			5.7		
2/3/2022				6.44	
9/1/2022		5.97			
9/2/2022	5.68				
9/6/2022			5.88	6.41	
1/31/2023		6.04	5.61	6.46	
2/1/2023	5.7				7.95
8/8/2023			5.61	6.33	8.13
8/9/2023		6.6			
8/10/2023	5.55				
1/23/2024	5.77		5.88		7.92
1/24/2024		6.03		6.43	
8/20/2024	5.83	6.2	5.76	6.34	7.95

Time Series

Constituent: Selenium (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
5/5/2009					0.0043
12/5/2009					<0.005
6/1/2010					<0.005
11/11/2010					<0.005
5/17/2011					<0.005
11/8/2011					<0.005
5/16/2012					<0.005
5/14/2013					<0.005
11/5/2013					<0.005
6/9/2014					<0.005
11/19/2014					<0.005
4/14/2015					<0.005
11/4/2015					<0.005
6/22/2016					0.00025 (J)
8/29/2016					0.0004 (J)
10/24/2016					<0.005
1/25/2017					<0.005
4/10/2017					<0.005
6/19/2017					0.00025 (J)
10/24/2017					<0.005
4/10/2018					0.00074 (J)
10/16/2018					<0.005
3/26/2019					<0.005
8/20/2019					<0.005
10/7/2019					<0.005
4/7/2020					<0.005
8/19/2020					<0.005
8/20/2020	<0.005	<0.005			
9/29/2020					<0.005
9/30/2020	<0.005				
10/1/2020		<0.005			
2/9/2021					<0.005
2/10/2021	<0.005				
2/11/2021		<0.005	<0.005	<0.005	
9/7/2021					<0.005
9/9/2021	<0.005			<0.005	
9/10/2021		<0.005	<0.005		
2/1/2022					<0.005
2/2/2022			<0.005		
2/3/2022	<0.005	<0.005		<0.005	
9/1/2022					<0.005
9/2/2022	<0.005	<0.005		<0.005	
9/7/2022			<0.005		
1/31/2023	<0.005	<0.005	<0.005	<0.005	<0.005
8/8/2023	<0.005	<0.005	<0.005		<0.005
8/9/2023				<0.005	
1/23/2024			<0.005		<0.005
1/24/2024	<0.005	<0.005		<0.005	
8/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
5/14/2009		0.0058 (o)			
5/15/2009	0.007 (o)				
12/5/2009	<0.005	<0.005			
6/1/2010	<0.005				
6/2/2010		<0.005			
11/11/2010	<0.005	<0.005			
5/17/2011	<0.005	<0.005			
11/8/2011	<0.005	<0.005			
5/16/2012	0.0024 (J)	<0.005			
5/14/2013	<0.005	<0.005			
11/5/2013	<0.005	<0.005			
6/9/2014	<0.005	<0.005			
11/18/2014	<0.005	<0.005			
4/14/2015	<0.005	<0.005			
10/29/2015		<0.005			
11/4/2015	<0.005				
6/22/2016	0.0019				
6/23/2016		<0.005			
8/29/2016	0.0019				
8/30/2016		<0.005			
10/24/2016	0.0023 (J)				
10/26/2016		<0.005			
1/25/2017	0.0015	<0.005			
4/10/2017	0.0011 (J)	<0.005			
6/19/2017		<0.005			
6/20/2017	0.0016				
10/24/2017	0.0012 (J)	<0.005			
4/9/2018	0.0012 (J)				
4/10/2018		<0.005			
10/16/2018	0.0015	<0.005			
3/27/2019	0.0015	<0.005			
8/20/2019	0.0015 (J)	<0.005			
10/7/2019	0.0016 (J)				
10/8/2019		<0.005			
12/16/2019			<0.005	<0.005	
1/14/2020			<0.005	<0.005	
2/11/2020			<0.005	<0.005	
3/9/2020			<0.005	<0.005	
4/6/2020	0.0017 (J)				
4/7/2020		<0.005	<0.005	<0.005	
5/27/2020			<0.005	<0.005	
7/15/2020			<0.005	<0.005	
8/19/2020	0.0015 (J)		<0.005		
8/20/2020				<0.005	
8/21/2020		<0.005			
9/22/2020			<0.005	<0.005	
9/30/2020	0.0016 (J)		<0.005		
10/1/2020		<0.005		<0.005	
2/9/2021	0.0016 (J)				
2/10/2021		<0.005	<0.005	<0.005	
9/8/2021	<0.005	<0.005			
9/9/2021				<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
9/10/2021			0.002 (J)		
2/1/2022	0.0015 (J)	<0.005			
2/2/2022			<0.005		
2/3/2022				<0.005	
9/1/2022		<0.005			
9/2/2022	<0.005				
9/6/2022			<0.005	<0.005	
1/31/2023		<0.005	<0.005	<0.005	
2/1/2023	<0.005				<0.005
8/8/2023			<0.005	<0.005	<0.005
8/9/2023		<0.005			
8/10/2023	<0.005				
1/23/2024	<0.005		<0.005		<0.005
1/24/2024		<0.005		<0.005	
8/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Silver (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
5/5/2009					<0.001
12/5/2009					0.00075
6/1/2010					<0.001
11/11/2010					<0.001
5/17/2011					<0.001
11/8/2011					<0.001
5/16/2012					<0.001
5/14/2013					<0.001
11/5/2013					<0.001
6/9/2014					<0.001
11/19/2014					<0.001
4/14/2015					<0.001
11/4/2015					<0.001
6/22/2016					<0.001
10/24/2016					<0.001
4/10/2017					<0.001
10/24/2017					<0.001
4/10/2018					<0.001
10/16/2018					<0.001
3/26/2019					<0.001
10/7/2019					0.00056 (J)
4/7/2020					0.00018 (J)
9/29/2020					<0.001
9/30/2020	<0.001				
10/1/2020		<0.001			
2/9/2021					<0.001
2/10/2021	<0.001				
2/11/2021		<0.001	<0.001	<0.001	
9/7/2021					<0.001
9/9/2021	<0.001			<0.001	
9/10/2021		<0.001	<0.001		
2/1/2022					<0.001
2/2/2022			<0.001		
2/3/2022	<0.001	<0.001		<0.001	
9/1/2022					<0.001
9/2/2022	<0.001	<0.001		<0.001	
9/7/2022			<0.001		
1/31/2023	<0.001	<0.001	<0.001	<0.001	<0.001
8/8/2023	<0.001	<0.001	<0.001		<0.001
8/9/2023				<0.001	
1/23/2024			<0.001		<0.001
1/24/2024	<0.001	<0.001		<0.001	
8/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Silver (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
5/14/2009		<0.001			
5/15/2009	<0.001				
12/5/2009	0.00043	0.001			
6/1/2010	<0.001				
6/2/2010		<0.001			
11/11/2010	<0.001	<0.001			
5/17/2011	<0.001	<0.001			
11/8/2011	<0.001	<0.001			
5/16/2012	<0.001	<0.001			
5/14/2013	<0.001	<0.001			
11/5/2013	<0.001	<0.001			
6/9/2014	<0.001	<0.001			
11/18/2014	<0.001	<0.001			
4/14/2015	<0.001	<0.001			
10/29/2015		<0.001			
11/4/2015	<0.001				
6/22/2016	<0.001				
6/23/2016		<0.001			
10/24/2016	<0.001				
10/26/2016		<0.001			
4/10/2017	<0.001	<0.001			
10/24/2017	<0.001	<0.001			
4/9/2018	<0.001				
4/10/2018		<0.001			
10/16/2018	<0.001	<0.001			
3/27/2019	<0.001	<0.001			
10/7/2019	0.00031 (J)				
10/8/2019		0.00043 (J)			
4/6/2020	<0.001				
4/7/2020		<0.001	<0.001	<0.001	
9/30/2020	<0.001		<0.001		
10/1/2020		<0.001		<0.001	
2/9/2021	<0.001				
2/10/2021		<0.001	<0.001	<0.001	
9/8/2021	<0.001	<0.001			
9/9/2021				<0.001	
9/10/2021			<0.001		
2/1/2022	<0.001	<0.001			
2/2/2022			<0.001		
2/3/2022				<0.001	
9/1/2022		<0.001			
9/2/2022	<0.001				
9/6/2022			<0.001	<0.001	
1/31/2023		<0.001	<0.001	<0.001	
2/1/2023	<0.001				<0.001
8/8/2023			<0.001	<0.001	<0.001
8/9/2023		<0.001			
8/10/2023	<0.001				
1/23/2024	<0.001		<0.001		<0.001
1/24/2024		<0.001		<0.001	
8/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sodium (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
6/24/2020	21	20			
6/25/2020					13
11/30/2020			27		
12/1/2020				22	
2/9/2021					11
2/10/2021	22				
2/11/2021		20	30	22	
9/7/2021					10
9/9/2021	21			19	
9/10/2021		20	30		
2/1/2022					10
2/2/2022			29		
2/3/2022	21	20		17	
9/1/2022					9.76
9/2/2022	19.5	18.9		15.5	
9/7/2022			28.1		
1/31/2023	21.9	20.5	29.8	17.4	10
8/8/2023	19.3	18.8	26.1		9.51
8/9/2023				18.1	
1/23/2024			33.2		11.1
1/24/2024	21	19.8		17.7	
8/20/2024	20	19	27.6	17.7	9.61

Time Series

Constituent: Sodium (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
6/24/2020			26		
6/25/2020	9.7	19		14	
2/9/2021	11				
2/10/2021		19	26	14	
9/8/2021	10	19			
9/9/2021				15	
9/10/2021			26		
2/1/2022	10	19			
2/2/2022			26		
2/3/2022				14	
9/1/2022		18.2			
9/2/2022	10				
9/6/2022			23.9	14.3	
1/31/2023		19.8	28.7	14.6	
2/1/2023	11.3				115
8/8/2023			29.2	13.3	107
8/9/2023		21			
8/10/2023	11.5				
1/23/2024	11.8		24.9		88.3
1/24/2024		19.8		15.7	
8/20/2024	11.5	20.2	26.6	16.1	75

Time Series

Constituent: Sulfate (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
5/5/2009					15.9
12/5/2009					15.1
6/1/2010					12.7
11/11/2010					11.5
5/17/2011					11.2
11/8/2011					11.3
5/16/2012					9.38
5/14/2013					8.74
11/5/2013					9.12
6/9/2014					8.61
4/14/2015					8.45
11/4/2015					9.01
6/22/2016					9.3
8/29/2016					8.7
10/24/2016					9.3
1/25/2017					8.8
4/10/2017					7.8
6/19/2017					8.6
10/24/2017					9.1
4/10/2018					7.9
10/16/2018					8.2
3/26/2019					6.1
10/7/2019					7.4
4/7/2020					8.4
6/24/2020	250	290			
6/25/2020					9.8
9/29/2020					8.4
9/30/2020	230				
10/1/2020		270			
11/30/2020			990		
12/1/2020				120	
2/9/2021					10
2/10/2021	260				
2/11/2021		290	980	110	
9/7/2021					9.9
9/9/2021	210			100	
9/10/2021		440	1100		
2/1/2022					10
2/2/2022			1100		
2/3/2022	250	310		110	
9/1/2022					8.38
9/2/2022	223	315		108	
9/7/2022			1050		
1/31/2023	218	262	1020	105	7.55
8/8/2023	223	243	1060		8.29
8/9/2023				114	
1/23/2024			1000		6.98
1/24/2024	219	214		106	
8/20/2024	211	232	1010	109	7.07

Time Series

Constituent: Sulfate (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
5/14/2009		129			
5/15/2009	41.3 (o)				
12/5/2009	16.2	136			
6/1/2010	18.2				
6/2/2010		138			
11/11/2010	16.5	131.49			
5/17/2011	16	132			
11/8/2011	21	138			
5/16/2012	17.7	132			
5/14/2013	19.5	129			
11/5/2013	18.3	122			
6/9/2014	18.6	131			
4/14/2015	18.8	128			
10/29/2015		134			
11/4/2015	17.4				
6/22/2016	18				
6/23/2016		150			
8/29/2016	18				
8/30/2016		140			
10/24/2016	18				
10/26/2016		160			
1/25/2017	19	150			
4/10/2017	16	140			
6/19/2017		160			
6/20/2017	18				
10/24/2017	19	160			
4/9/2018	18				
4/10/2018		170			
10/16/2018	18	170			
3/27/2019	15	170			
10/7/2019	17				
10/8/2019		170			
12/16/2019			770	66	
1/14/2020			930	68	
2/11/2020			660	18	
3/9/2020			630	49	
4/6/2020	15				
4/7/2020		180	710	58	
5/27/2020			720	65	
6/24/2020			810		
6/25/2020	16	210		77	
7/15/2020			820	78	
8/19/2020			1000		
8/20/2020				69	
9/22/2020			720	68	
9/30/2020	15		650		
10/1/2020		210		64	
2/9/2021	16				
2/10/2021		220	750	67	
9/8/2021	16	230			
9/9/2021				72	
9/10/2021			760		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
2/1/2022	18	230			
2/2/2022			720		
2/3/2022				64	
9/1/2022		221			
9/2/2022	18.5				
9/6/2022			667	65.3	
1/31/2023		260	751	55.5	
2/1/2023	19.3				417
8/8/2023			719	69.8	477
8/9/2023		214			
8/10/2023	18.5				
1/23/2024	17.1		567		415
1/24/2024		219		78.4	
8/20/2024	16.4	219	674	80.1	416

Time Series

Constituent: Thallium (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
8/29/2016					<0.002
10/24/2016					<0.002
1/25/2017					<0.002
4/10/2017					<0.002
6/19/2017					<0.002
10/24/2017					<0.002
4/10/2018					<0.002
10/16/2018					<0.002
8/20/2019					<0.002
8/19/2020					<0.002
8/20/2020	<0.002	<0.002			
9/7/2021					<0.002
9/9/2021	<0.002			<0.002	
9/10/2021		<0.002	<0.002		
2/1/2022					0.00057 (J)
2/2/2022			<0.002		
2/3/2022	<0.002	<0.002		<0.002	
9/1/2022					<0.002
9/2/2022	<0.002	<0.002		<0.002	
9/7/2022			<0.002		
1/31/2023	<0.002	<0.002	<0.002	<0.002	<0.002
8/8/2023	<0.002	<0.002	<0.002		<0.002
8/9/2023				<0.002	
1/23/2024			<0.002		<0.002
1/24/2024	<0.002	<0.002		<0.002	
8/20/2024	<0.002	<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
8/29/2016	<0.002				
8/30/2016		<0.002			
10/24/2016	<0.002				
10/26/2016		<0.002			
1/25/2017	<0.002	<0.002			
4/10/2017	<0.002	<0.002			
6/19/2017		<0.002			
6/20/2017	<0.002				
10/24/2017	<0.002	<0.002			
4/9/2018	<0.002				
4/10/2018		<0.002			
10/16/2018	<0.002	<0.002			
8/20/2019	<0.002	<0.002			
12/16/2019			0.00078 (J)	<0.002	
1/14/2020			0.00027 (J)	<0.002	
2/11/2020			0.00034	0.00028 (J)	
3/9/2020			0.00035 (J)	0.00026 (J)	
5/27/2020			<0.002	0.00026 (J)	
7/15/2020			<0.002	<0.002	
8/19/2020	<0.002		<0.002		
8/20/2020				<0.002	
8/21/2020		<0.002			
9/22/2020			<0.002	<0.002	
9/8/2021	<0.002	<0.002			
9/9/2021				<0.002	
9/10/2021			<0.002		
2/1/2022	<0.002	<0.002			
2/2/2022			<0.002		
2/3/2022				<0.002	
9/1/2022		<0.002			
9/2/2022	<0.002				
9/6/2022			<0.002	<0.002	
1/31/2023		<0.002	<0.002	<0.002	
2/1/2023	<0.002				<0.002
8/8/2023			<0.002	<0.002	<0.002
8/9/2023		<0.002			
8/10/2023	<0.002				
1/23/2024	<0.002		<0.002		<0.002
1/24/2024		<0.002		<0.002	
8/20/2024	<0.002	<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWA-19 (bg)
8/29/2016					130
10/24/2016					108
1/25/2017					120
4/10/2017					128 (D)
6/19/2017					86
10/24/2017					120
4/10/2018					120
10/16/2018					140
3/26/2019					170
10/7/2019					150
4/7/2020					120
9/29/2020					110
9/30/2020	520				
10/1/2020		530			
11/30/2020			1600		
12/1/2020				420	
2/9/2021					110
2/10/2021	560				
2/11/2021		590	1600	380	
9/7/2021					110
9/9/2021	560			260	
9/10/2021		870	1700		
2/1/2022					91
2/2/2022			1700		
2/3/2022	560	590		410	
9/1/2022					81
9/2/2022	546	664		385	
9/7/2022			1610		
1/31/2023	527	591	1630	392	95
8/8/2023	524	548	1620		62
8/9/2023				436	
1/23/2024			1670		82
1/24/2024	530	529		419	
8/20/2024	538	564	1590	422	91

Time Series

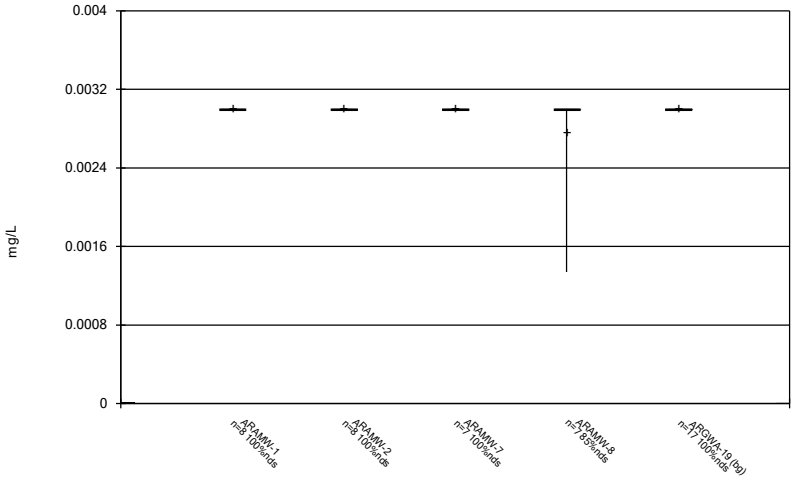
Constituent: Total Dissolved Solids (mg/L) Analysis Run 9/26/2024 12:30 PM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
8/29/2016	100				
8/30/2016		350			
10/24/2016	91				
10/26/2016		357			
1/25/2017	90	320			
4/10/2017	110	380			
6/19/2017		370			
6/20/2017	72				
10/24/2017	110	420			
4/9/2018	100				
4/10/2018		370			
10/16/2018	110	380			
3/27/2019	100	400			
10/7/2019	87				
10/8/2019		420			
12/16/2019			1300	320	
1/14/2020			1400	340	
2/11/2020			1300	110	
3/9/2020			1200	210	
4/6/2020	90				
4/7/2020		460	1300	290	
5/27/2020			1300	320	
7/15/2020			1400	310	
8/19/2020			1400		
8/20/2020				310	
9/22/2020			1300	310	
9/30/2020	82		1200		
10/1/2020		500		290	
2/9/2021	100				
2/10/2021		510	1200	290	
9/8/2021	120	560			
9/9/2021				320	
9/10/2021			1300		
2/1/2022	100	520			
2/2/2022			1200		
2/3/2022				320	
9/1/2022		537			
9/2/2022	101				
9/6/2022			1180	305	
1/31/2023		526	1320	299	
2/1/2023	90				857
8/8/2023			1220	294	852
8/9/2023		520			
8/10/2023	105				
1/23/2024	92		1110		750
1/24/2024		541		342	
8/20/2024	113	520	1180	328	670

FIGURE B.

Box & Whiskers Plot



Constituent: Antimony Analysis Run 9/26/2024 12:30 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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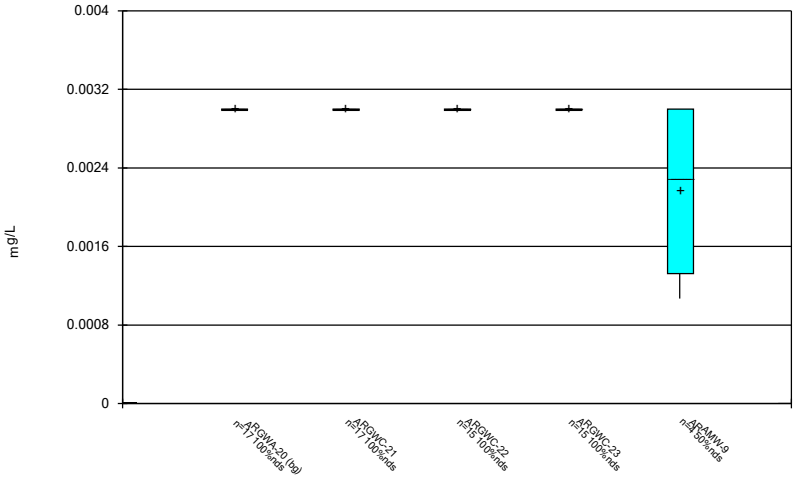
Box & Whiskers Plot



Constituent: Antimony Analysis Run 9/26/2024 12:30 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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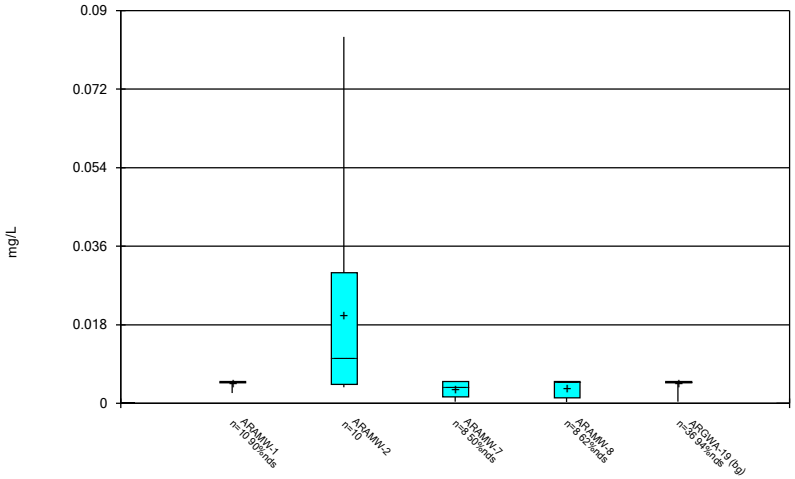
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 9/26/2024 12:30 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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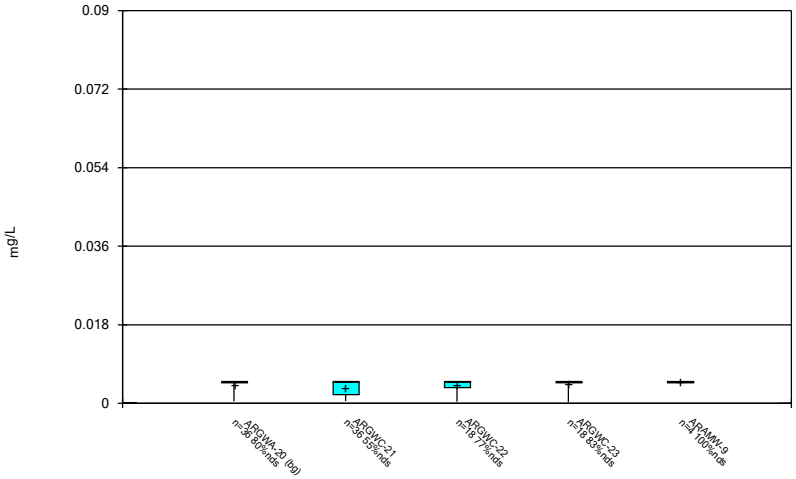
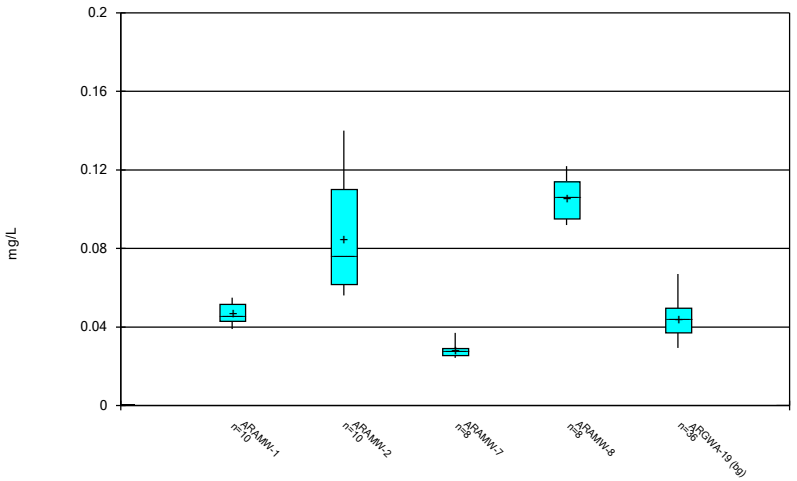
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 9/26/2024 12:30 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



Constituent: Barium Analysis Run 9/26/2024 12:30 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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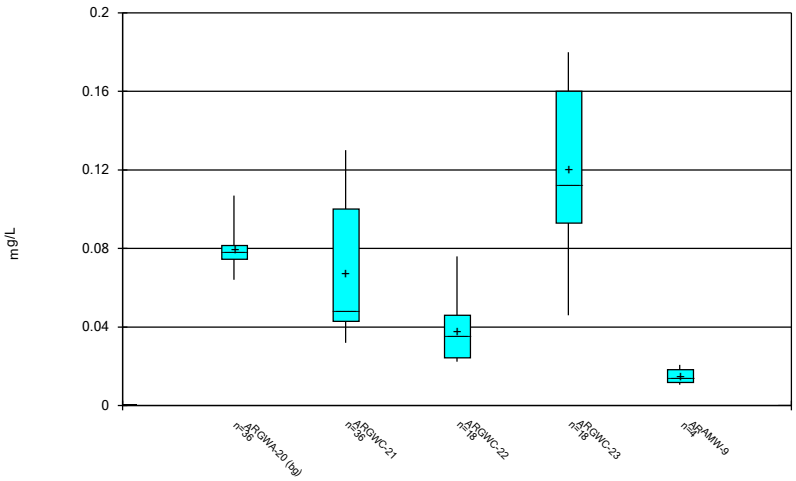
Box & Whiskers Plot



Constituent: Barium Analysis Run 9/26/2024 12:30 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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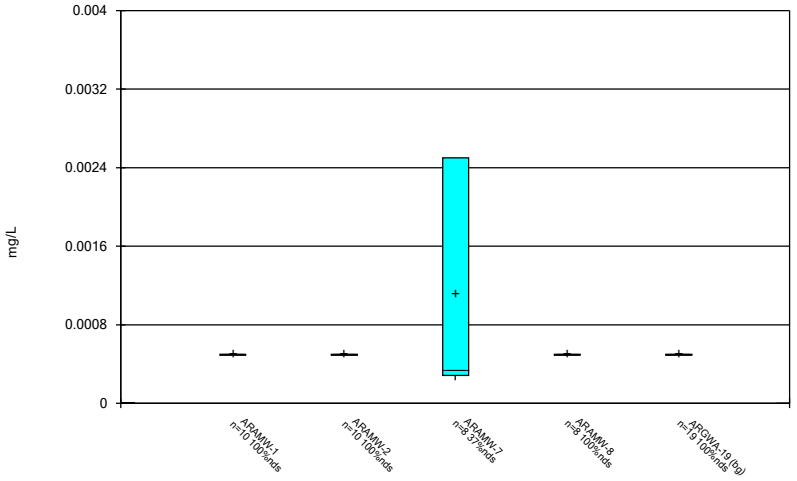
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 9/26/2024 12:30 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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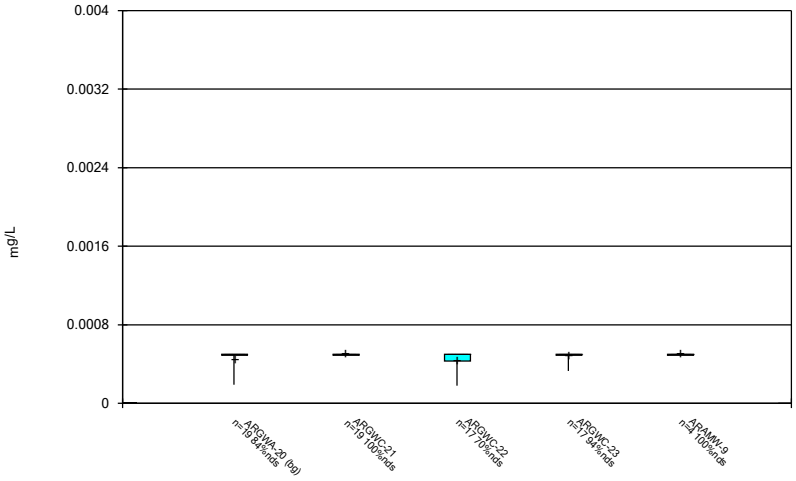
Box & Whiskers Plot



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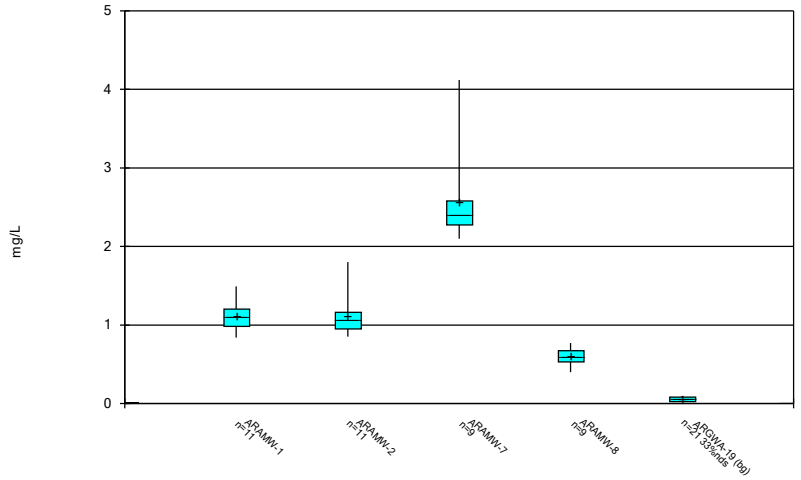
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



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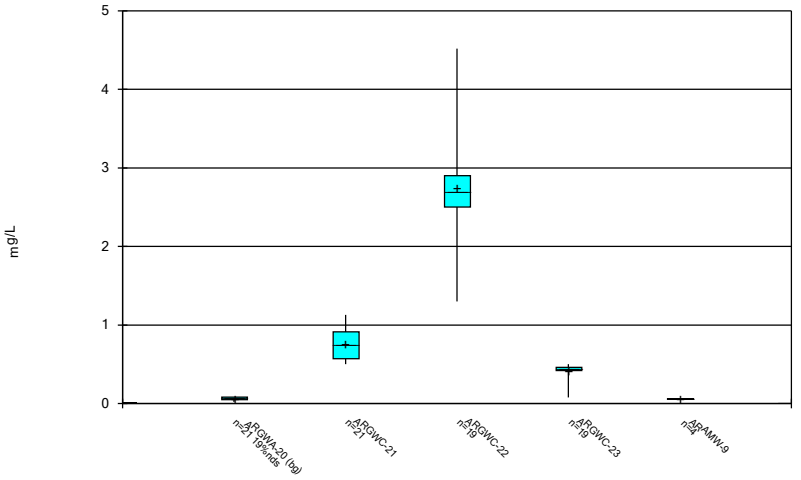
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



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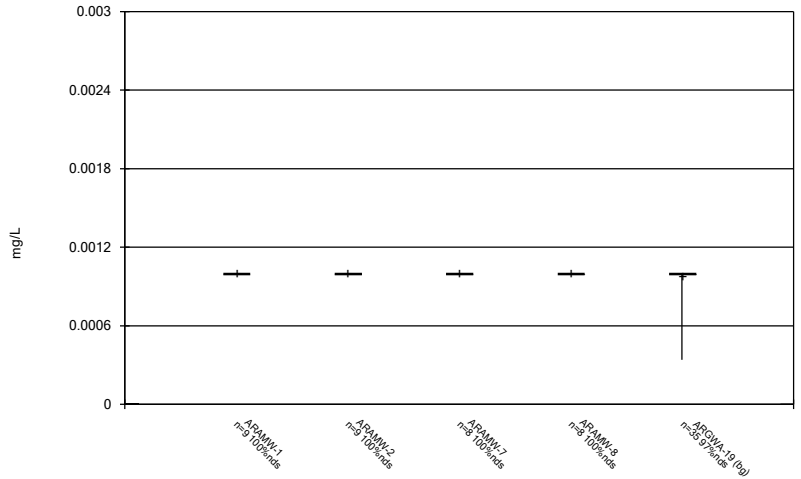
Box & Whiskers Plot



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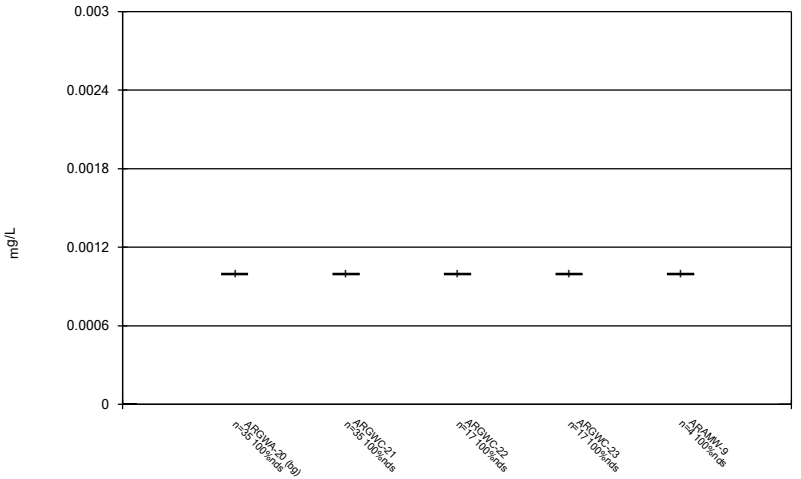
Box & Whiskers Plot



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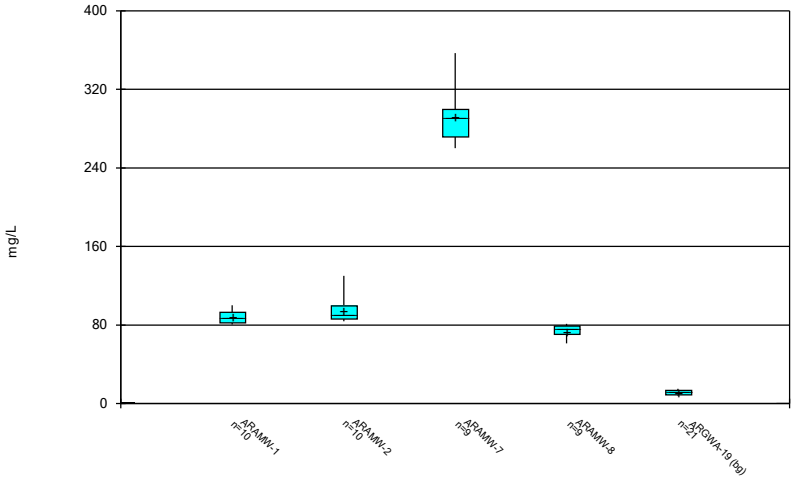
Box & Whiskers Plot



Constituent: Calcium Analysis Run 9/26/2024 12:30 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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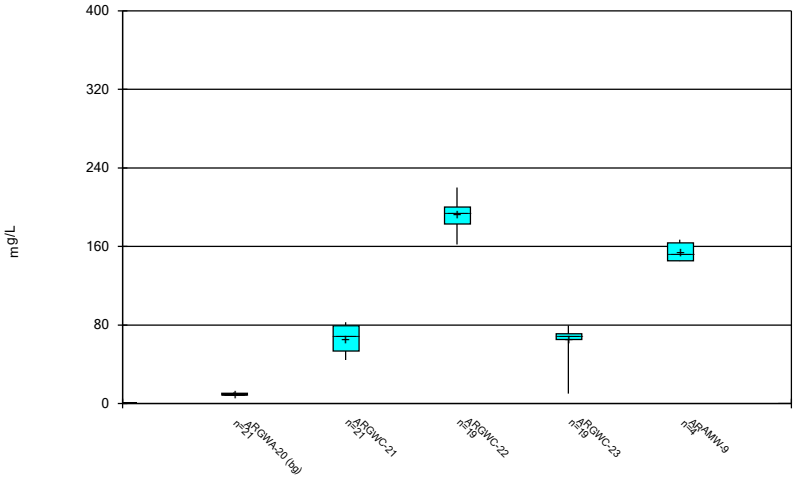
Box & Whiskers Plot



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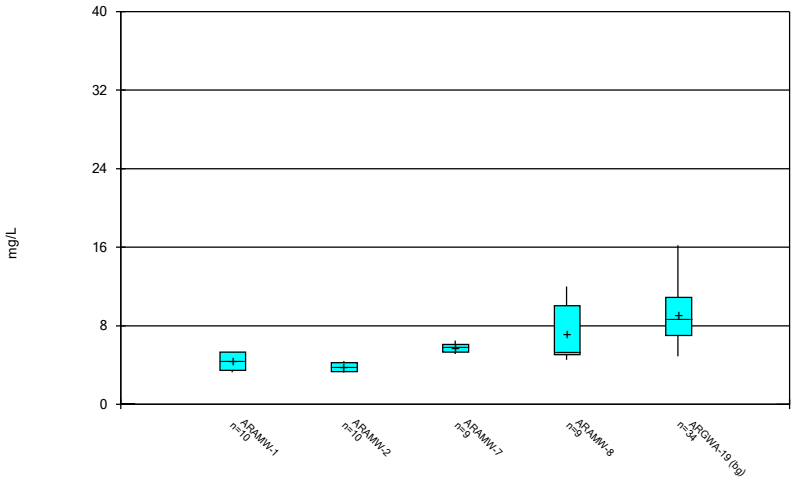
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 2

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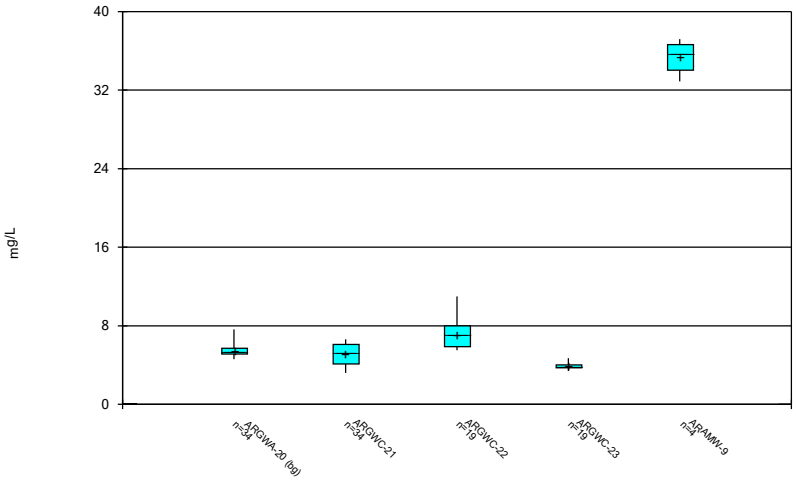
Box & Whiskers Plot



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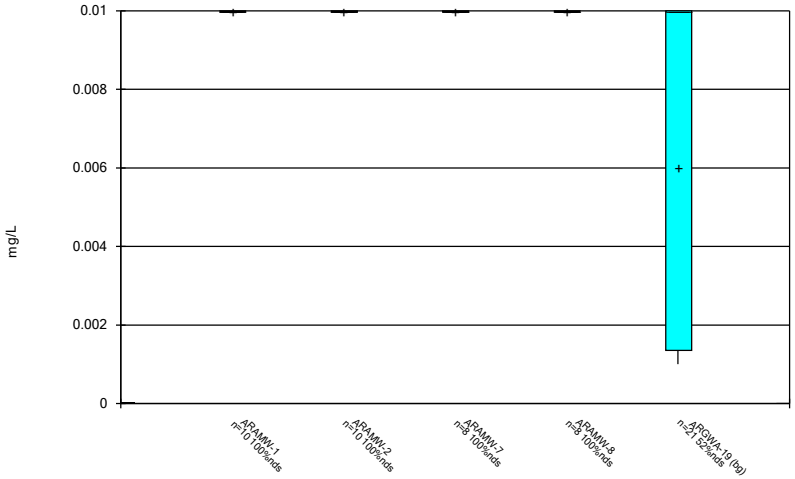

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Plant Arkwright Client: Southern Company Data: Arkwright No 2

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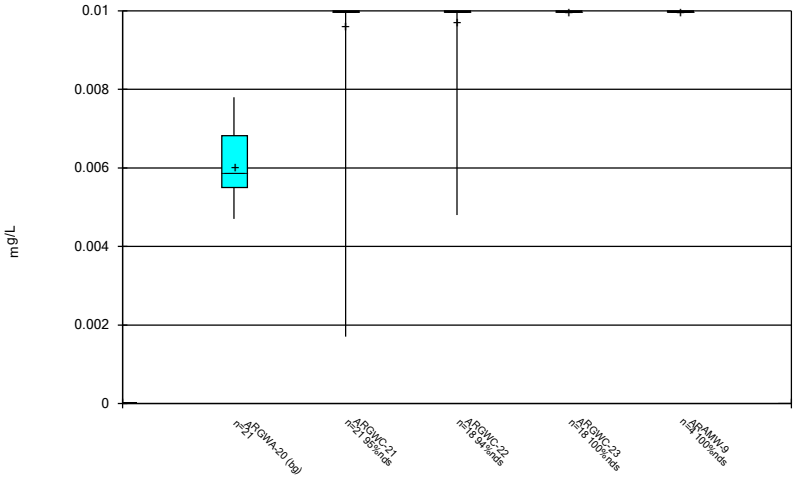
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 2

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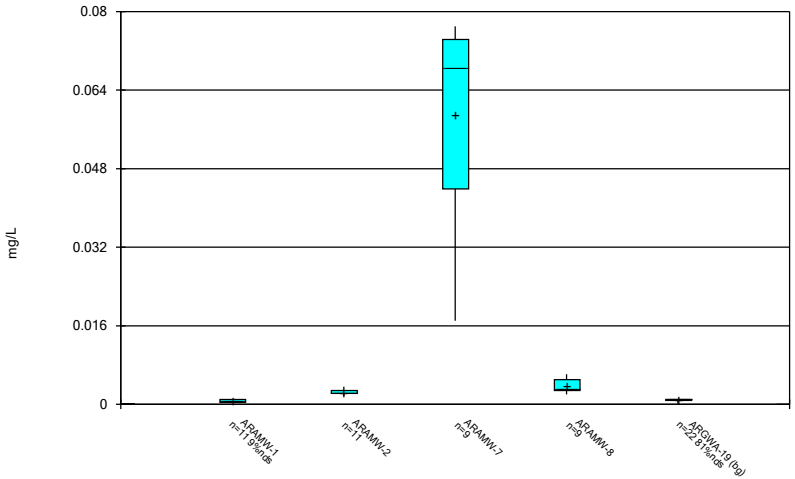
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 9/26/2024 12:30 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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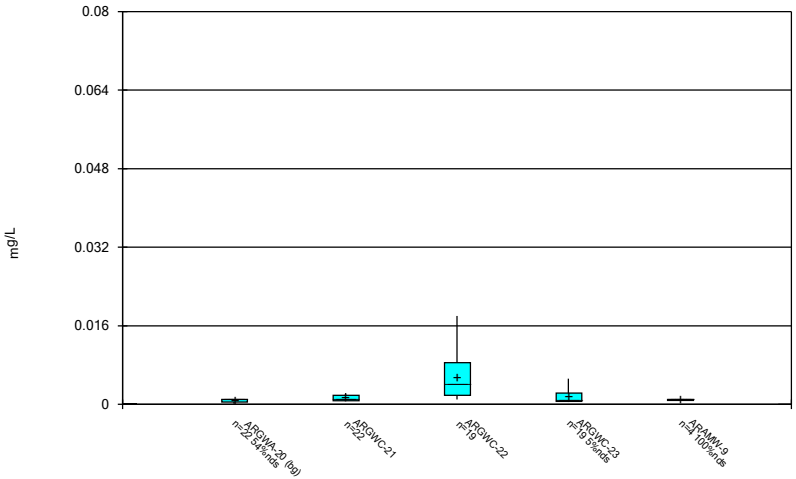
Box & Whiskers Plot



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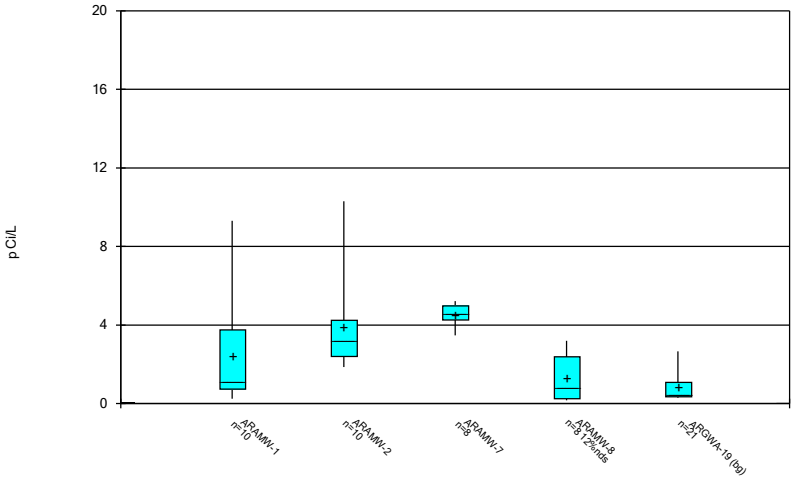
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 9/26/2024 12:30 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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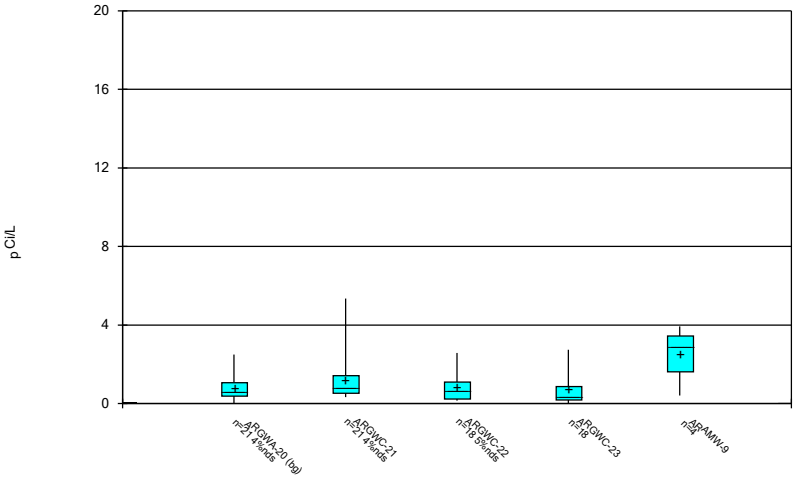
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 9/26/2024 12:30 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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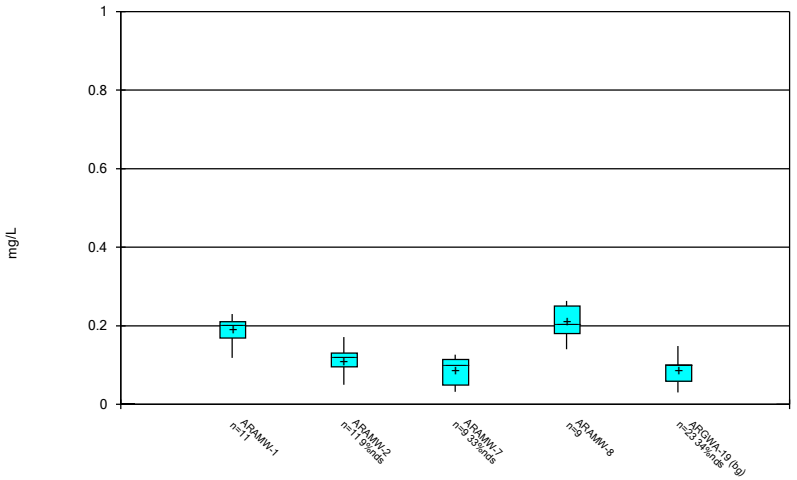
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 9/26/2024 12:30 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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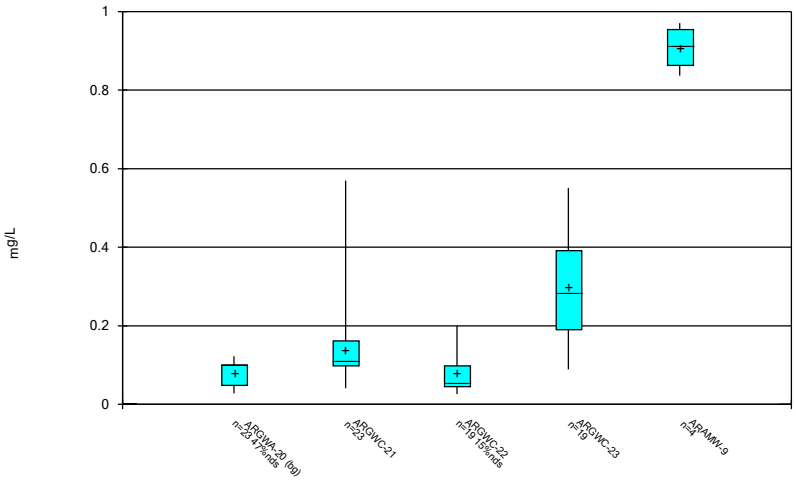
Box & Whiskers Plot



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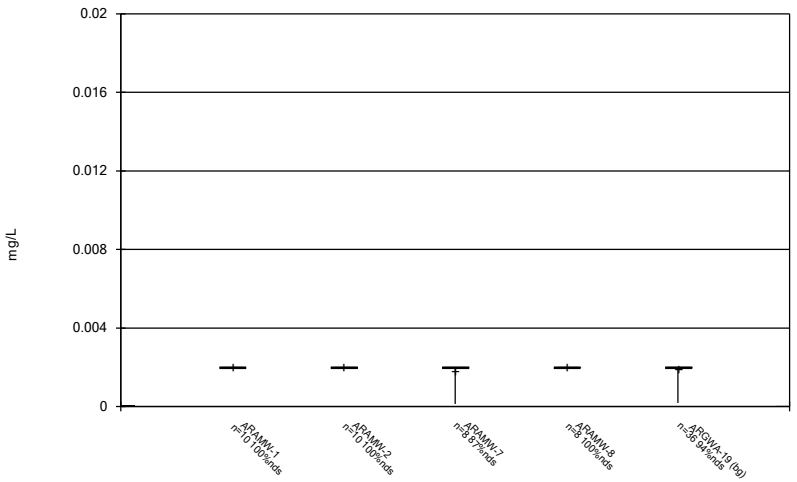
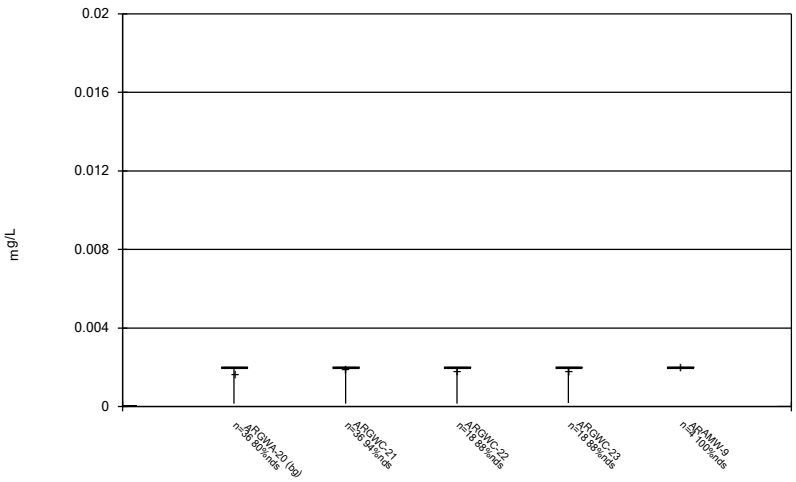
Box & Whiskers Plot



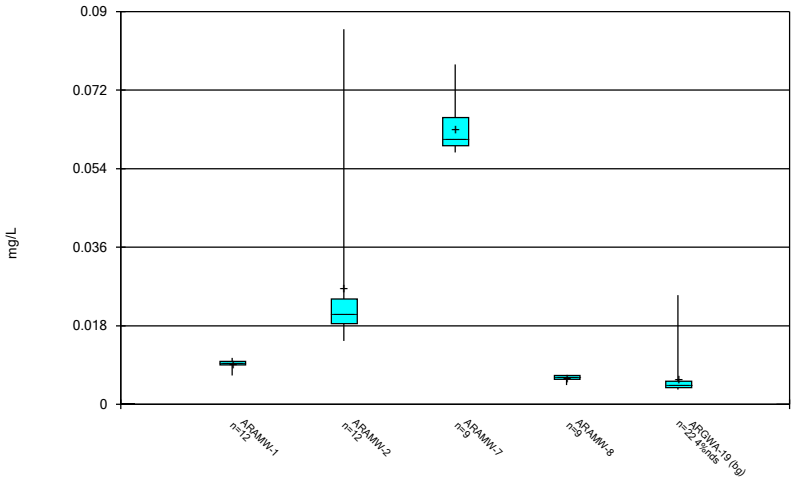
Constituent: Lead Analysis Run 10/1/2024 9:33 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



Constituent: Lead Analysis Run 10/1/2024 9:33 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



Constituent: Lithium Analysis Run 10/1/2024 9:33 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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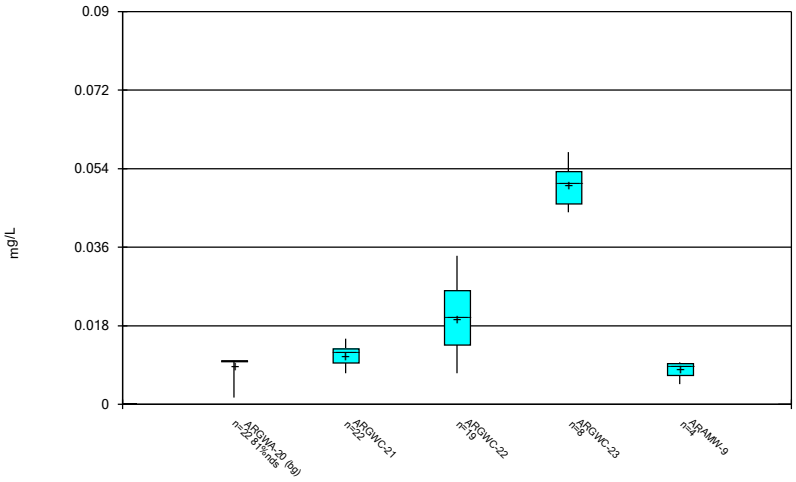

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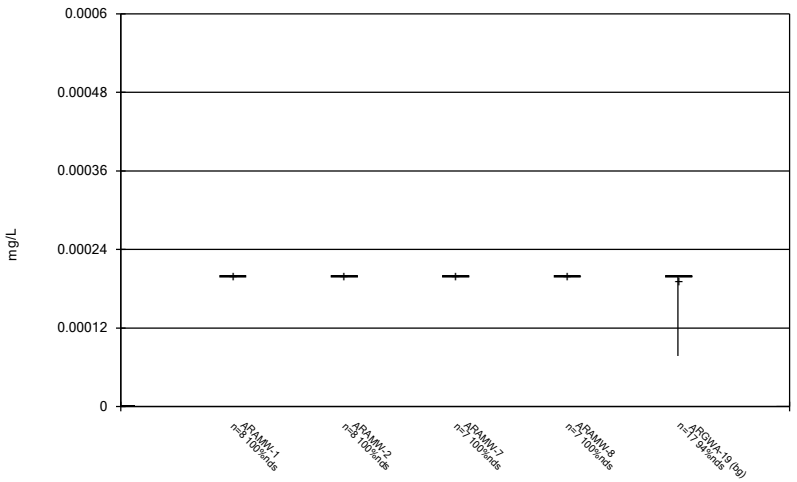
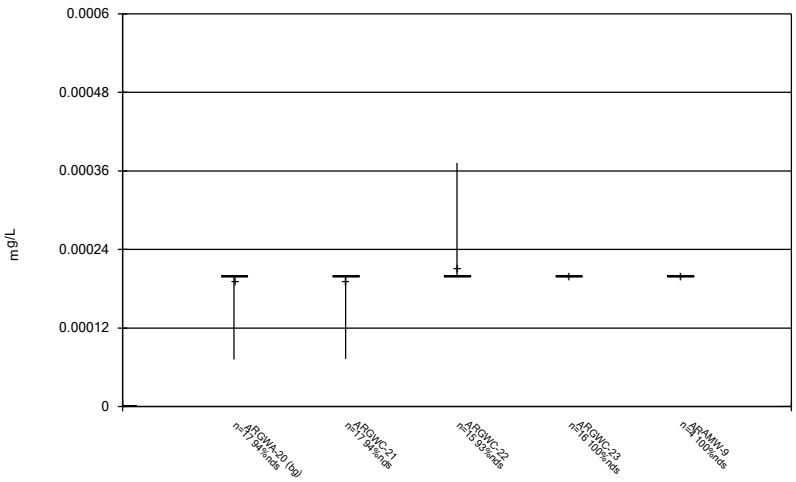
Box & Whiskers Plot



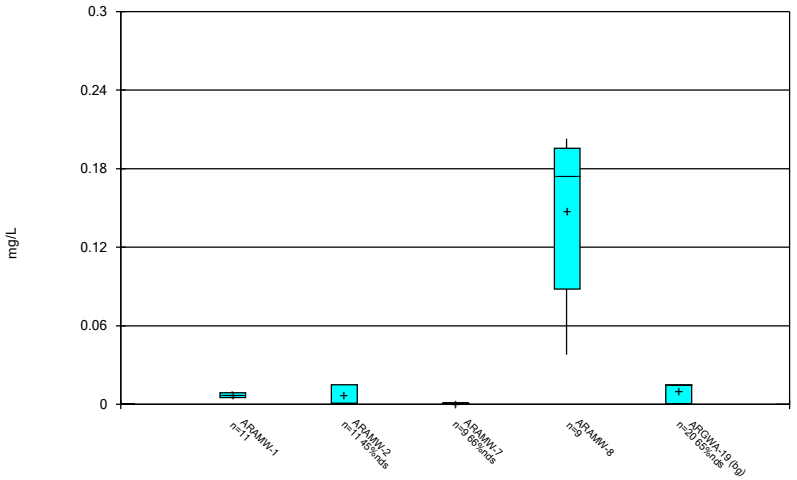
Constituent: Mercury Analysis Run 9/26/2024 12:30 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



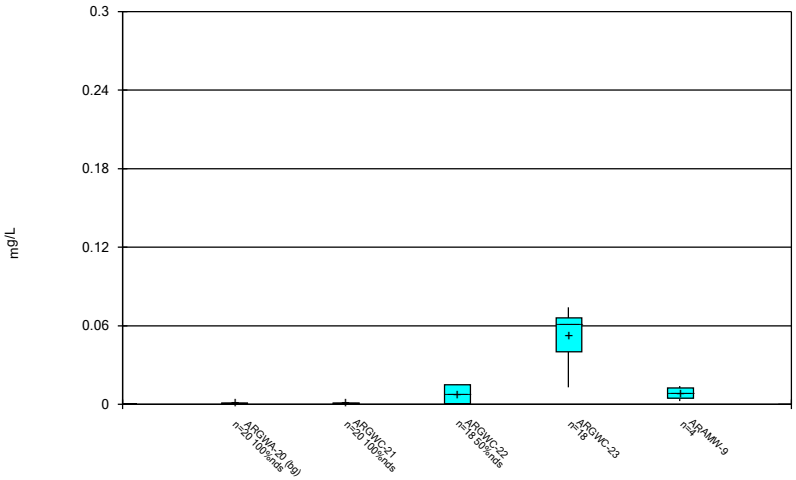
Constituent: Mercury Analysis Run 9/26/2024 12:31 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 9/26/2024 12:31 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



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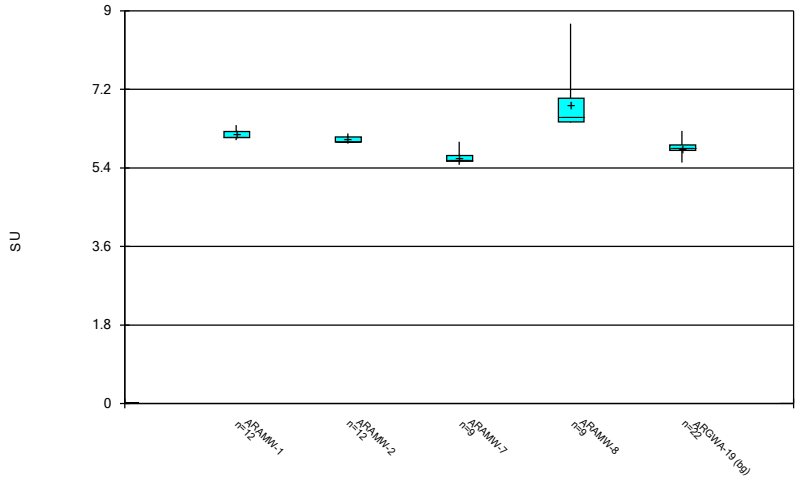
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



Constituent: pH Analysis Run 9/26/2024 12:31 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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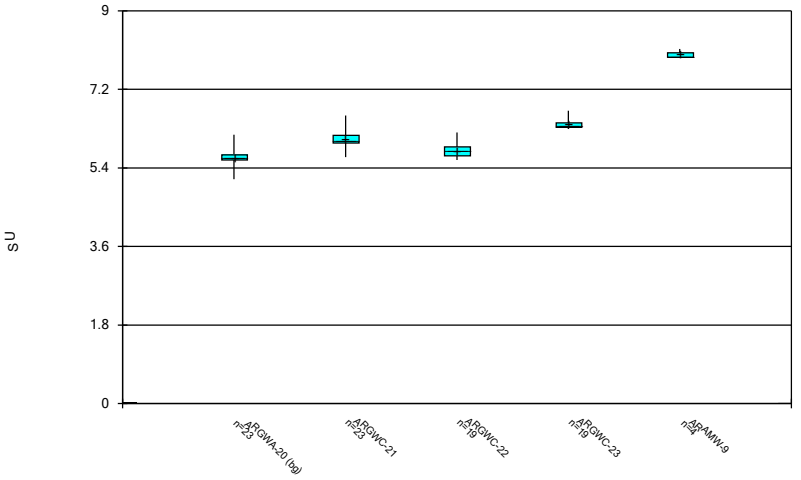
Box & Whiskers Plot



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Plant Arkwright Client: Southern Company Data: Arkwright No 2

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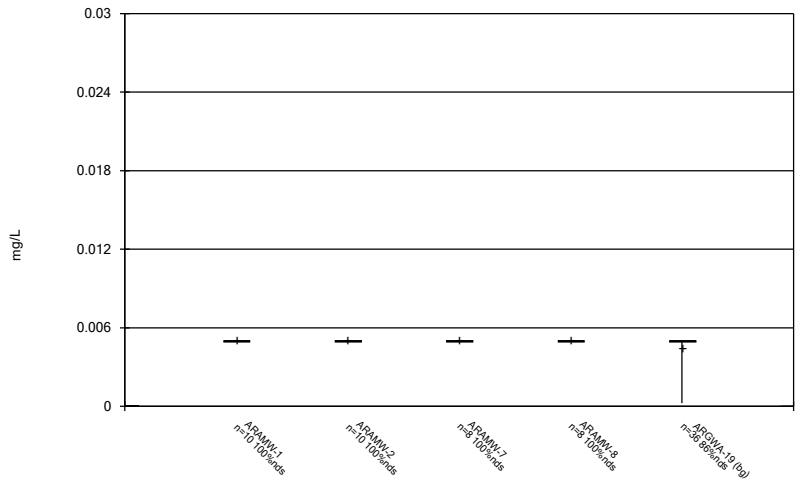
Box & Whiskers Plot



Constituent: Selenium Analysis Run 9/26/2024 12:31 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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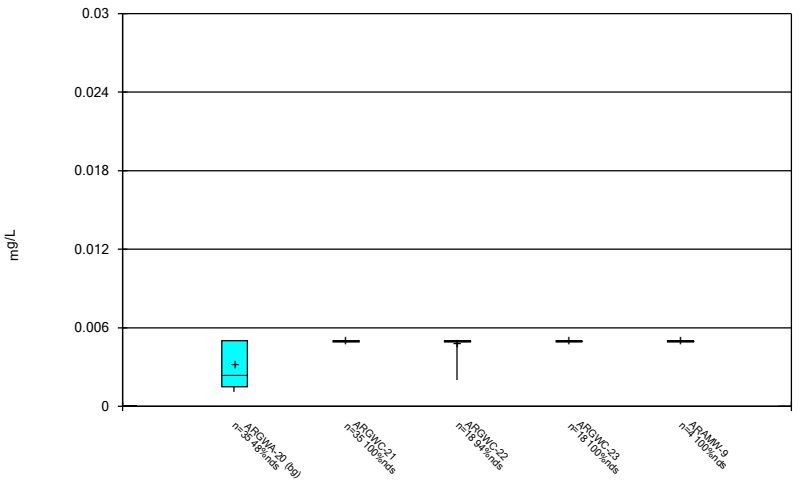
Box & Whiskers Plot



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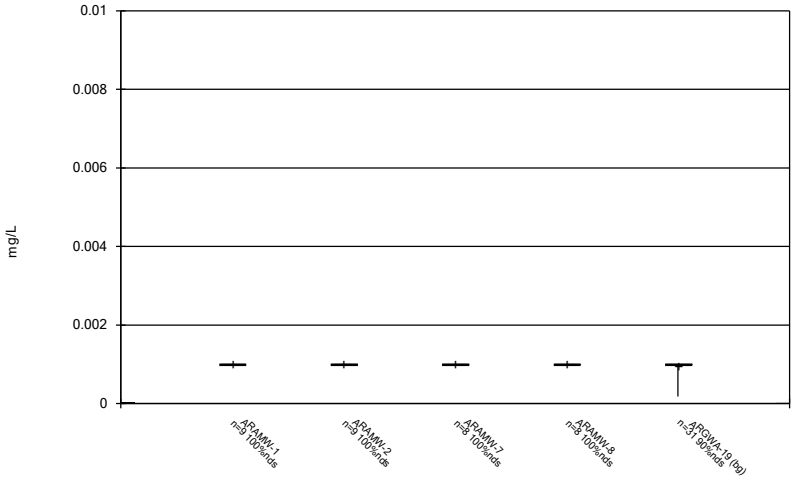
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



Constituent: Silver Analysis Run 9/26/2024 12:31 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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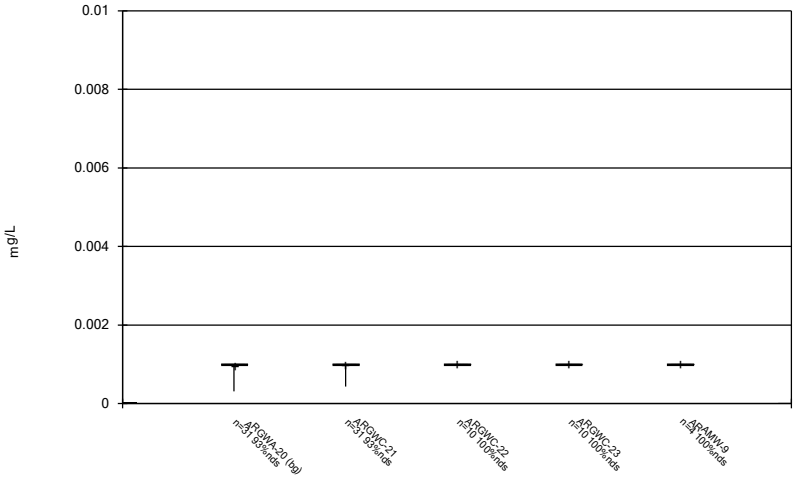
Box & Whiskers Plot



Constituent: Silver Analysis Run 9/26/2024 12:31 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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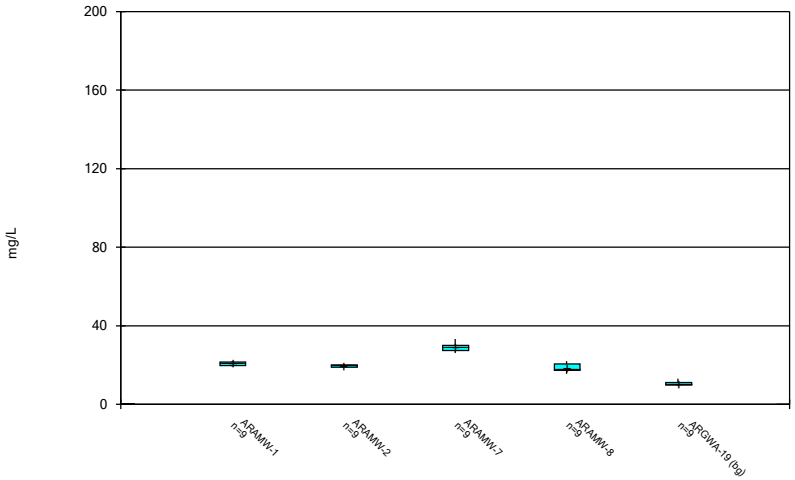
Box & Whiskers Plot



Constituent: Sodium Analysis Run 9/26/2024 12:31 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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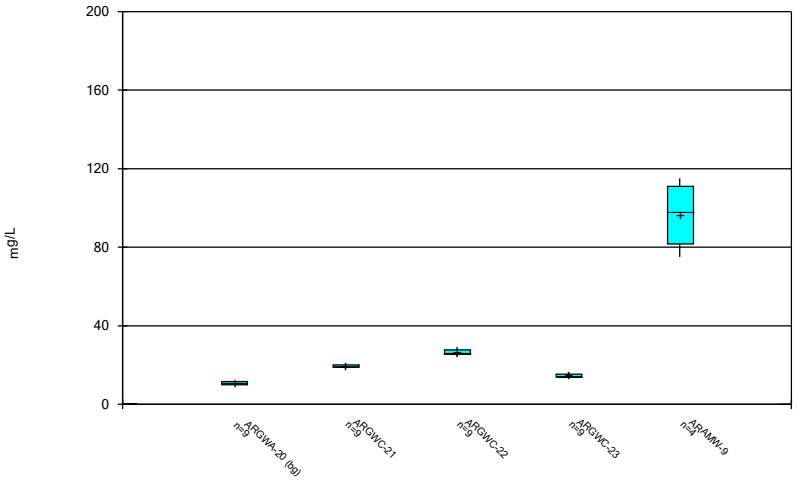
Box & Whiskers Plot



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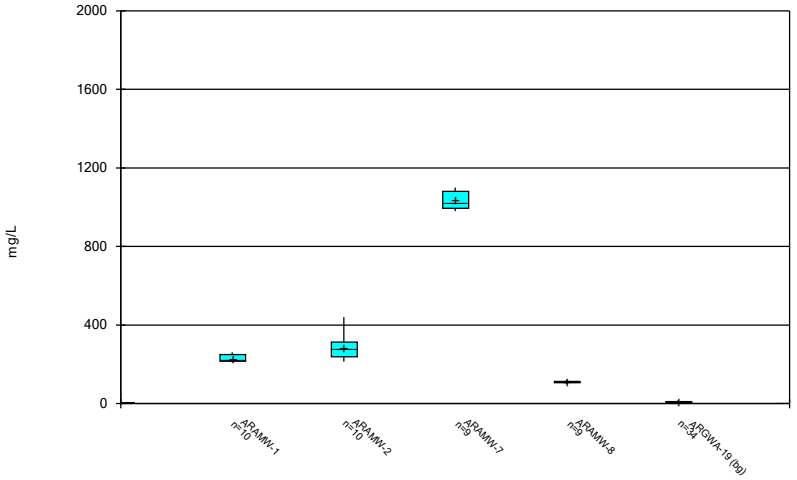
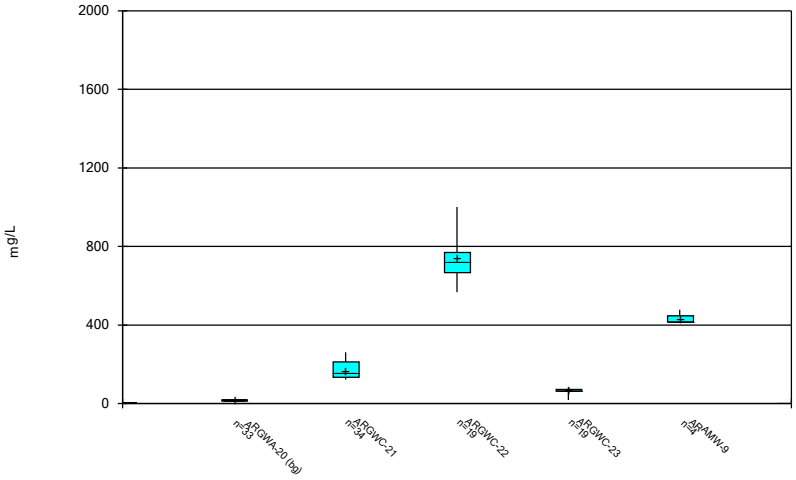
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



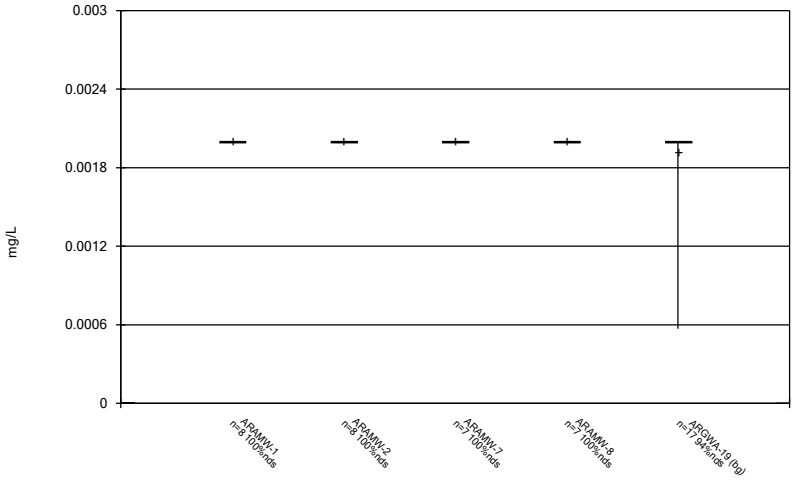
Constituent: Sulfate Analysis Run 9/26/2024 12:31 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



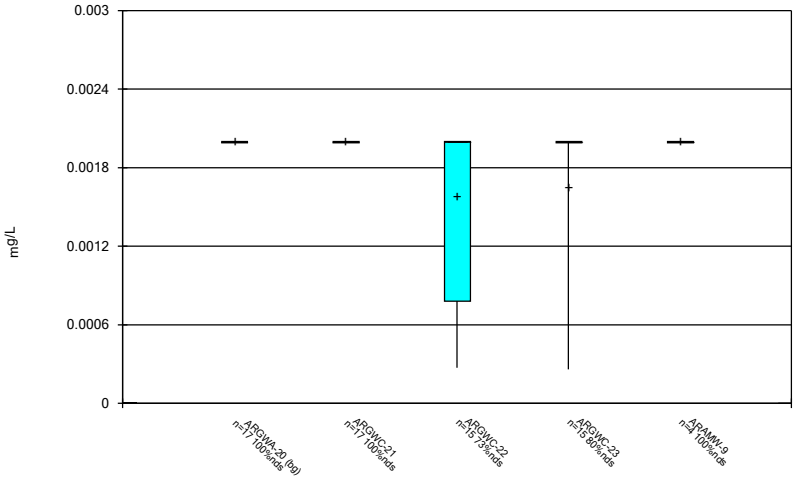
Constituent: Sulfate Analysis Run 9/26/2024 12:31 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



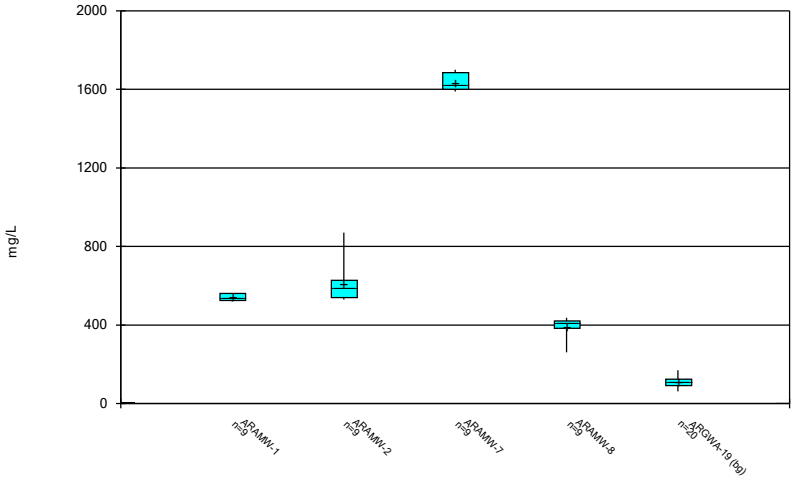
Constituent: Thallium Analysis Run 9/26/2024 12:31 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



Constituent: Thallium Analysis Run 9/26/2024 12:31 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 9/26/2024 12:31 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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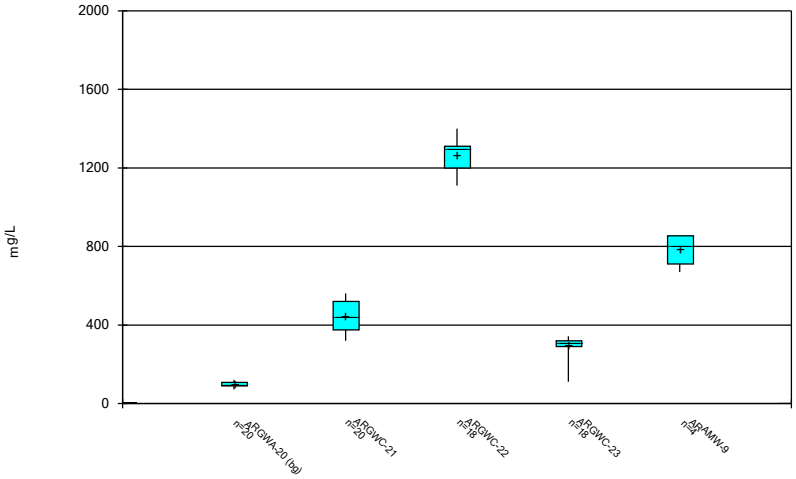
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 9/26/2024 12:31 PM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

FIGURE C.

Outlier Summary

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/26/2024, 12:33 PM

	ARGWA-19 pH (SU)	ARGWA-20 Selenium (mg/L)	ARGWC-21 Selenium (mg/L)	ARGWA-20 Sulfate (mg/L)
5/14/2009			0.0058 (o)	
5/15/2009		0.007 (o)		41.3 (o)
8/29/2016	6.75 (o)			

FIGURE D.

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

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/26/2024, 11:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	ARGWC-21	0.005	n/a	8/20/2024	0.005ND	No	72	n/a	n/a	87.5	n/a	n/a	0.0003715	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-22	0.005	n/a	8/20/2024	0.005ND	No	72	n/a	n/a	87.5	n/a	n/a	0.0003715	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-23	0.005	n/a	8/20/2024	0.005ND	No	72	n/a	n/a	87.5	n/a	n/a	0.0003715	NP Inter (NDs) 1 of 2
Barium (mg/L)	ARGWC-21	0.107	n/a	8/20/2024	0.0431	No	72	n/a	n/a	0	n/a	n/a	0.0003715	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-22	0.107	n/a	8/20/2024	0.0223	No	72	n/a	n/a	0	n/a	n/a	0.0003715	NP Inter (normality) 1 of 2
Barium (mg/L)	ARGWC-23	0.107	n/a	8/20/2024	0.105	No	72	n/a	n/a	0	n/a	n/a	0.0003715	NP Inter (normality) 1 of 2
Lead (mg/L)	ARGWC-21	0.002	n/a	8/20/2024	0.002ND	No	72	n/a	n/a	87.5	n/a	n/a	0.0003715	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-22	0.002	n/a	8/20/2024	0.002ND	No	72	n/a	n/a	87.5	n/a	n/a	0.0003715	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-23	0.002	n/a	8/20/2024	0.002ND	No	72	n/a	n/a	87.5	n/a	n/a	0.0003715	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-22	0.005	n/a	8/20/2024	0.005ND	No	71	n/a	n/a	67.61	n/a	n/a	0.0003804	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-21	0.001	n/a	8/20/2024	0.001ND	No	62	n/a	n/a	91.94	n/a	n/a	0.0004981	NP Inter (NDs) 1 of 2

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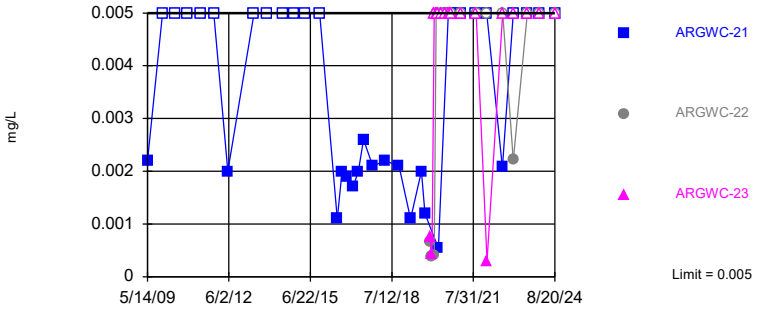
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 72 background values. 87.5% NDs. Annual per-constituent alpha = 0.002227. Individual comparison alpha = 0.0003715 (1 of 2). Comparing 3 points to limit.

Constituent: Arsenic Analysis Run 9/26/2024 11:43 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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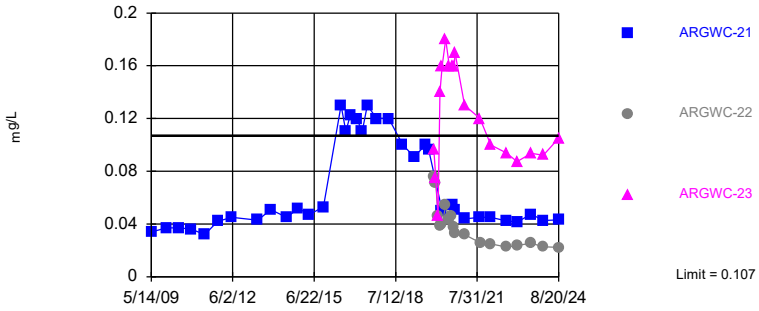
Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 72 background values. Annual per-constituent alpha = 0.002227. Individual comparison alpha = 0.0003715 (1 of 2). Comparing 3 points to limit.

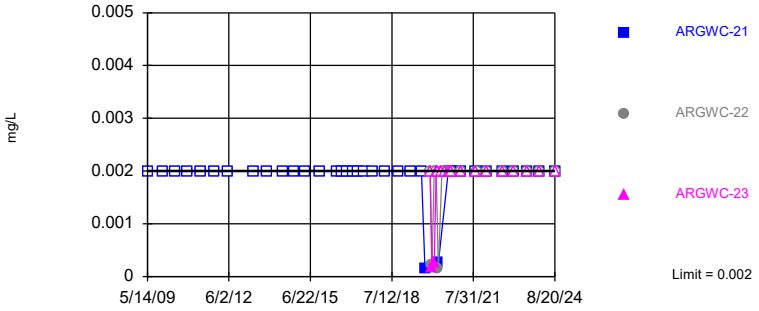
Constituent: Barium Analysis Run 9/26/2024 11:43 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 72 background values. 87.5% NDs. Annual per-constituent alpha = 0.002227. Individual comparison alpha = 0.0003715 (1 of 2). Comparing 3 points to limit.

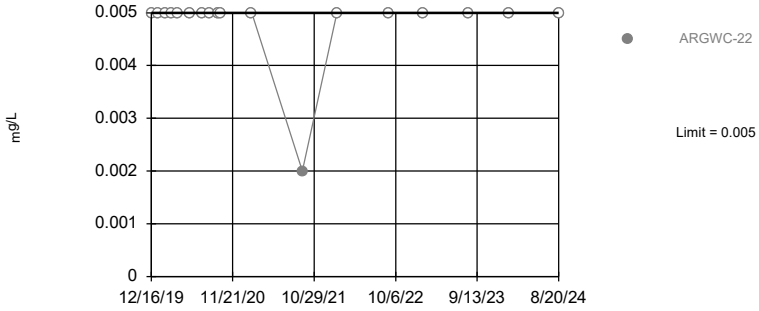
Constituent: Lead Analysis Run 9/26/2024 11:43 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 71 background values. 67.61% NDs. Annual per-constituent alpha = 0.00228. Individual comparison alpha = 0.0003804 (1 of 2). Assumes 2 future values.

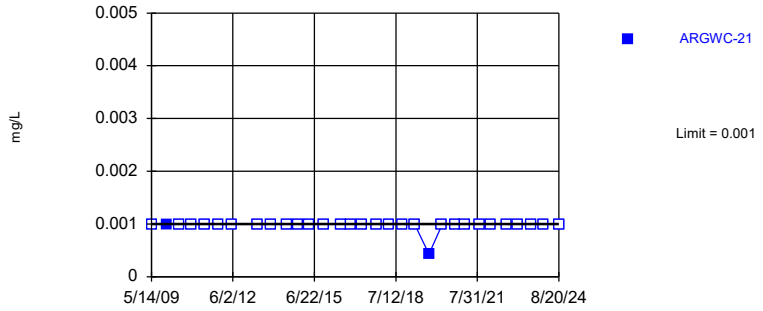
Constituent: Selenium Analysis Run 9/26/2024 11:43 AM View: Appendix I
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 62 background values. 91.94% NDs. Annual per-constituent alpha = 0.002985. Individual comparison alpha = 0.0004981 (1 of 2). Assumes 2 future values.

Constituent: Silver Analysis Run 9/26/2024 11:43 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 9/26/2024 11:45 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
5/5/2009	<0.005				
5/14/2009		0.0022			
5/15/2009			0.0015		
12/5/2009	<0.005	<0.005	<0.005		
6/1/2010	<0.005		<0.005		
6/2/2010		<0.005			
11/11/2010	<0.005	<0.005	<0.005		
5/17/2011	<0.005	<0.005	<0.005		
11/8/2011	<0.005	<0.005	<0.005		
5/16/2012	<0.005	0.002 (J)	<0.005		
5/14/2013	<0.005	<0.005	<0.005		
11/5/2013	<0.005	<0.005	<0.005		
6/9/2014	<0.005	<0.005	<0.005		
11/18/2014		<0.005	<0.005		
11/19/2014	<0.005				
4/14/2015	<0.005	<0.005	<0.005		
10/29/2015		<0.005			
11/4/2015	<0.005		<0.005		
6/22/2016	<0.005		0.00084 (J)		
6/23/2016		0.0011 (J)			
8/29/2016	<0.005		0.00049 (J)		
8/30/2016		0.002			
10/24/2016	<0.005		<0.005		
10/26/2016		0.0019 (J)			
1/25/2017	<0.005	0.0017	<0.005		
4/10/2017	<0.005	0.002	0.00056 (J)		
6/19/2017	<0.005	0.0026			
6/20/2017			0.00068 (J)		
10/24/2017	<0.005	0.0021	<0.005		
4/9/2018			<0.005		
4/10/2018	<0.005	0.0022			
10/16/2018	<0.005	0.0021	<0.005		
3/26/2019	<0.005				
3/27/2019		0.0011 (J)	<0.005		
8/20/2019	0.00036 (J)	0.002	0.00047 (J)		
10/7/2019	<0.005		<0.005		
10/8/2019		0.0012 (J)			
12/16/2019				0.00075 (J)	0.00066 (J)
1/14/2020				0.00042 (J)	0.00038 (J)
2/11/2020				<0.005	0.0004 (J)
3/9/2020				<0.005	<0.005
4/6/2020			0.00042 (J)		
4/7/2020	0.0006 (J)	0.00054 (J)		<0.005	<0.005
5/27/2020				<0.005	<0.005
7/15/2020				<0.005	<0.005
8/19/2020	<0.005		<0.005		<0.005
8/20/2020				<0.005	
8/21/2020		<0.005			
9/22/2020				<0.005	<0.005
9/29/2020	<0.005				
9/30/2020			<0.005		<0.005
10/1/2020		<0.005		<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 9/26/2024 11:45 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
2/9/2021	<0.005		<0.005		
2/10/2021		<0.005		<0.005	<0.005
9/7/2021	<0.005				
9/8/2021		<0.005	<0.005		
9/9/2021				<0.005	
9/10/2021					<0.005
2/1/2022	<0.005	<0.005	<0.005		
2/2/2022					<0.005
2/3/2022				0.0003 (J)	
9/1/2022	<0.005	0.00207 (J)			
9/2/2022			<0.005		
9/6/2022				<0.005	<0.005
1/31/2023	<0.005	<0.005		<0.005	0.00221 (J)
2/1/2023			<0.005		
8/8/2023	<0.005			<0.005	<0.005
8/9/2023		<0.005			
8/10/2023			<0.005		
1/23/2024	<0.005		<0.005		<0.005
1/24/2024		<0.005		<0.005	
8/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 9/26/2024 11:45 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
5/5/2009	0.057				
5/14/2009		0.034			
5/15/2009			0.1		
12/5/2009	0.05	0.037	0.079		
6/1/2010	0.037		0.077		
6/2/2010		0.037			
11/11/2010	0.039	0.036	0.072		
5/17/2011	0.037	0.032	0.064		
11/8/2011	0.045	0.042	0.07		
5/16/2012	0.0518	0.0451	0.0741		
5/14/2013	0.067	0.043	0.074		
11/5/2013	0.066	0.051	0.075		
6/9/2014	0.062	0.045	0.08		
11/18/2014		0.052	0.078		
11/19/2014	0.054				
4/14/2015	0.046	0.047	0.073		
10/29/2015		0.053			
11/4/2015	0.046		0.077		
6/22/2016	0.039		0.078		
6/23/2016		0.13			
8/29/2016	0.04		0.07		
8/30/2016		0.11			
10/24/2016	0.0444		0.0738		
10/26/2016		0.122			
1/25/2017	0.045	0.12	0.084		
4/10/2017	0.039	0.11	0.073		
6/19/2017	0.041	0.13			
6/20/2017			0.078		
10/24/2017	0.041	0.12	0.081		
4/9/2018			0.081		
4/10/2018	0.044	0.12			
10/16/2018	0.047	0.1	0.08		
3/26/2019	0.056				
3/27/2019		0.091	0.082		
8/20/2019	0.052	0.1	0.079		
10/7/2019	0.049		0.076		
10/8/2019		0.096			
12/16/2019				0.096	0.076
1/14/2020				0.075	0.071
2/11/2020				0.046	0.046
3/9/2020				0.14	0.039
4/6/2020			0.075		
4/7/2020	0.047	0.05		0.16	0.04
5/27/2020				0.18	0.054
7/15/2020				0.16	0.043
8/19/2020	0.044		0.085		0.046
8/20/2020				0.16	
8/21/2020		0.054			
9/22/2020				0.16	0.038
9/29/2020	0.04				
9/30/2020			0.08		0.033
10/1/2020		0.051		0.17	

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 9/26/2024 11:45 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
2/9/2021	0.032		0.078		
2/10/2021		0.044		0.13	0.032
9/7/2021	0.03				
9/8/2021		0.045	0.085		
9/9/2021				0.12	
9/10/2021					0.026
2/1/2022	0.031	0.045	0.079		
2/2/2022					0.025
2/3/2022				0.1	
9/1/2022	0.0303	0.0425			
9/2/2022			0.0806		
9/6/2022				0.0939	0.0226
1/31/2023	0.031	0.0414		0.0872	0.0237
2/1/2023			0.0919		
8/8/2023	0.0337			0.0936	0.0255
8/9/2023		0.0474			
8/10/2023			0.107		
1/23/2024	0.0348		0.0978		0.0227
1/24/2024		0.0427		0.0922	
8/20/2024	0.0293	0.0431	0.0863	0.105	0.0223

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 9/26/2024 11:45 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
5/5/2009	<0.002				
5/14/2009		<0.002			
5/15/2009			<0.002		
12/5/2009	<0.002	<0.002	<0.002		
6/1/2010	<0.002		<0.002		
6/2/2010		<0.002			
11/11/2010	<0.002	<0.002	<0.002		
5/17/2011	<0.002	<0.002	<0.002		
11/8/2011	<0.002	<0.002	<0.002		
5/16/2012	<0.002	<0.002	<0.002		
5/14/2013	<0.002	<0.002	<0.002		
11/5/2013	<0.002	<0.002	<0.002		
6/9/2014	<0.002	<0.002	<0.002		
11/18/2014		<0.002	<0.002		
11/19/2014	<0.002				
4/14/2015	<0.002	<0.002	<0.002		
10/29/2015		<0.002			
11/4/2015	<0.002		<0.002		
6/22/2016	<0.002		<0.002		
6/23/2016		<0.002			
8/29/2016	<0.002		<0.002		
8/30/2016		<0.002			
10/24/2016	<0.002		<0.002		
10/26/2016		<0.002			
1/25/2017	<0.002	<0.002	0.00037 (J)		
4/10/2017	<0.002	<0.002	<0.002		
6/19/2017	<0.002	<0.002			
6/20/2017			<0.002		
10/24/2017	<0.002	<0.002	<0.002		
4/9/2018			<0.002		
4/10/2018	<0.002	<0.002			
10/16/2018	<0.002	<0.002	<0.002		
3/26/2019	<0.002				
3/27/2019		<0.002	<0.002		
8/20/2019	<0.002	<0.002	<0.002		
10/7/2019	0.00018 (J)		0.00014 (J)		
10/8/2019		0.00015 (J)			
12/16/2019				<0.002	<0.002
1/14/2020				0.00018 (J)	0.00022 (J)
2/11/2020				0.00026 (J)	<0.002
3/9/2020				<0.002	<0.002
4/6/2020			0.00033 (J)		
4/7/2020	0.00037 (J)	0.00026 (J)		<0.002	0.00014 (J)
5/27/2020				<0.002	<0.002
7/15/2020				<0.002	<0.002
8/19/2020	<0.002		0.00039 (J)		<0.002
8/20/2020				<0.002	
8/21/2020		<0.002			
9/22/2020				<0.002	<0.002
9/29/2020	<0.002				
9/30/2020			0.00022 (J)		<0.002
10/1/2020		<0.002		<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 9/26/2024 11:45 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
2/9/2021	<0.002		0.00033 (J)		
2/10/2021		<0.002		<0.002	<0.002
9/7/2021	<0.002				
9/8/2021		<0.002	0.00024 (J)		
9/9/2021				<0.002	
9/10/2021					<0.002
2/1/2022	<0.002	<0.002	<0.002		
2/2/2022					<0.002
2/3/2022				<0.002	
9/1/2022	<0.002	<0.002			
9/2/2022			<0.002		
9/6/2022				<0.002	<0.002
1/31/2023	<0.002	<0.002		<0.002	<0.002
2/1/2023			<0.002		
8/8/2023	<0.002			<0.002	<0.002
8/9/2023		<0.002			
8/10/2023			<0.002		
1/23/2024	<0.002		<0.002		<0.002
1/24/2024		<0.002		<0.002	
8/20/2024	<0.002	<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 9/26/2024 11:45 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-22
5/5/2009	0.0043		
5/15/2009		0.007 (o)	
12/5/2009	<0.005	<0.005	
6/1/2010	<0.005	<0.005	
11/11/2010	<0.005	<0.005	
5/17/2011	<0.005	<0.005	
11/8/2011	<0.005	<0.005	
5/16/2012	<0.005	0.0024 (J)	
5/14/2013	<0.005	<0.005	
11/5/2013	<0.005	<0.005	
6/9/2014	<0.005	<0.005	
11/18/2014		<0.005	
11/19/2014	<0.005		
4/14/2015	<0.005	<0.005	
11/4/2015	<0.005	<0.005	
6/22/2016	0.00025 (J)	0.0019	
8/29/2016	0.0004 (J)	0.0019	
10/24/2016	<0.005	0.0023 (J)	
1/25/2017	<0.005	0.0015	
4/10/2017	<0.005	0.0011 (J)	
6/19/2017	0.00025 (J)		
6/20/2017		0.0016	
10/24/2017	<0.005	0.0012 (J)	
4/9/2018		0.0012 (J)	
4/10/2018	0.00074 (J)		
10/16/2018	<0.005	0.0015	
3/26/2019	<0.005		
3/27/2019		0.0015	
8/20/2019	<0.005	0.0015 (J)	
10/7/2019	<0.005	0.0016 (J)	
12/16/2019			<0.005
1/14/2020			<0.005
2/11/2020			<0.005
3/9/2020			<0.005
4/6/2020		0.0017 (J)	
4/7/2020	<0.005		<0.005
5/27/2020			<0.005
7/15/2020			<0.005
8/19/2020	<0.005	0.0015 (J)	<0.005
9/22/2020			<0.005
9/29/2020	<0.005		
9/30/2020		0.0016 (J)	<0.005
2/9/2021	<0.005	0.0016 (J)	
2/10/2021			<0.005
9/7/2021	<0.005		
9/8/2021		<0.005	
9/10/2021			0.002 (J)
2/1/2022	<0.005	0.0015 (J)	
2/2/2022			<0.005
9/1/2022	<0.005		
9/2/2022		<0.005	
9/6/2022			<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 9/26/2024 11:45 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-22
1/31/2023	<0.005		<0.005
2/1/2023		<0.005	
8/8/2023	<0.005		<0.005
8/10/2023		<0.005	
1/23/2024	<0.005	<0.005	<0.005
8/20/2024	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 9/26/2024 11:45 AM View: Appendix I

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)
5/5/2009	<0.001		
5/14/2009		<0.001	
5/15/2009			<0.001
12/5/2009	0.00075	0.001	0.00043
6/1/2010	<0.001		<0.001
6/2/2010		<0.001	
11/11/2010	<0.001	<0.001	<0.001
5/17/2011	<0.001	<0.001	<0.001
11/8/2011	<0.001	<0.001	<0.001
5/16/2012	<0.001	<0.001	<0.001
5/14/2013	<0.001	<0.001	<0.001
11/5/2013	<0.001	<0.001	<0.001
6/9/2014	<0.001	<0.001	<0.001
11/18/2014		<0.001	<0.001
11/19/2014	<0.001		
4/14/2015	<0.001	<0.001	<0.001
10/29/2015		<0.001	
11/4/2015	<0.001		<0.001
6/22/2016	<0.001		<0.001
6/23/2016		<0.001	
10/24/2016	<0.001		<0.001
10/26/2016		<0.001	
4/10/2017	<0.001	<0.001	<0.001
10/24/2017	<0.001	<0.001	<0.001
4/9/2018			<0.001
4/10/2018	<0.001	<0.001	
10/16/2018	<0.001	<0.001	<0.001
3/26/2019	<0.001		
3/27/2019		<0.001	<0.001
10/7/2019	0.00056 (J)		0.00031 (J)
10/8/2019		0.00043 (J)	
4/6/2020			<0.001
4/7/2020	0.00018 (J)	<0.001	
9/29/2020	<0.001		
9/30/2020			<0.001
10/1/2020		<0.001	
2/9/2021	<0.001		<0.001
2/10/2021		<0.001	
9/7/2021	<0.001		
9/8/2021		<0.001	<0.001
2/1/2022	<0.001	<0.001	<0.001
9/1/2022	<0.001	<0.001	
9/2/2022			<0.001
1/31/2023	<0.001	<0.001	
2/1/2023			<0.001
8/8/2023	<0.001		
8/9/2023		<0.001	
8/10/2023			<0.001
1/23/2024	<0.001		<0.001
1/24/2024		<0.001	
8/20/2024	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

FIGURE E.

Appendix III Interwell Prediction Limits - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/26/2024, 11:48 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	ARGWC-21	0.092	n/a	8/20/2024	1.13	Yes	42	n/a	n/a	26.19	n/a	n/a	0.001066	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-22	0.092	n/a	8/20/2024	3.09	Yes	42	n/a	n/a	26.19	n/a	n/a	0.001066	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-23	0.092	n/a	8/20/2024	0.434	Yes	42	n/a	n/a	26.19	n/a	n/a	0.001066	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-21	13.81	n/a	8/20/2024	78	Yes	42	3.215	0.2873	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Calcium (mg/L)	ARGWC-22	13.81	n/a	8/20/2024	194	Yes	42	3.215	0.2873	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Calcium (mg/L)	ARGWC-23	13.81	n/a	8/20/2024	79.6	Yes	42	3.215	0.2873	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Fluoride (mg/L)	ARGWC-23	0.148	n/a	8/20/2024	0.365	Yes	46	n/a	n/a	41.3	n/a	n/a	0.0009064	NP Inter (normality) 1 of 2
pH (SU)	ARGWC-21	6.086	5.41	8/20/2024	6.2	Yes	45	5.748	0.1948	0	None	No	0.001253	Param Inter 1 of 2
pH (SU)	ARGWC-23	6.086	5.41	8/20/2024	6.34	Yes	45	5.748	0.1948	0	None	No	0.001253	Param Inter 1 of 2
Sulfate (mg/L)	ARGWC-21	21	n/a	8/20/2024	219	Yes	67	n/a	n/a	0	n/a	n/a	0.0004301	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-22	21	n/a	8/20/2024	674	Yes	67	n/a	n/a	0	n/a	n/a	0.0004301	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-23	21	n/a	8/20/2024	80.1	Yes	67	n/a	n/a	0	n/a	n/a	0.0004301	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-21	141.1	n/a	8/20/2024	520	Yes	40	104.7	20.82	0	None	No	0.002505	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-22	141.1	n/a	8/20/2024	1180	Yes	40	104.7	20.82	0	None	No	0.002505	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	ARGWC-23	141.1	n/a	8/20/2024	328	Yes	40	104.7	20.82	0	None	No	0.002505	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

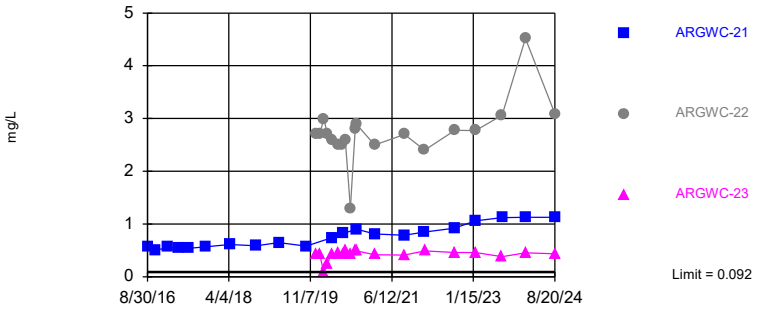
Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/26/2024, 11:48 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**ARGWC-21**	**0.092**	**n/a**	**8/20/2024**	**1.13**	**Yes**	**42**	**n/a**	**n/a**	**26.19**	**n/a**	**n/a**	**0.001066**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**ARGWC-22**	**0.092**	**n/a**	**8/20/2024**	**3.09**	**Yes**	**42**	**n/a**	**n/a**	**26.19**	**n/a**	**n/a**	**0.001066**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**ARGWC-23**	**0.092**	**n/a**	**8/20/2024**	**0.434**	**Yes**	**42**	**n/a**	**n/a**	**26.19**	**n/a**	**n/a**	**0.001066**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**ARGWC-21**	**13.81**	**n/a**	**8/20/2024**	**78**	**Yes**	**42**	**3.215**	**0.2873**	**0**	**None**	**sqrt(x)**	**0.002505**	**Param Inter 1 of 2**
Calcium (mg/L)	**ARGWC-22**	**13.81**	**n/a**	**8/20/2024**	**194**	**Yes**	**42**	**3.215**	**0.2873**	**0**	**None**	**sqrt(x)**	**0.002505**	**Param Inter 1 of 2**
Calcium (mg/L)	**ARGWC-23**	**13.81**	**n/a**	**8/20/2024**	**79.6**	**Yes**	**42**	**3.215**	**0.2873**	**0**	**None**	**sqrt(x)**	**0.002505**	**Param Inter 1 of 2**
Chloride (mg/L)	ARGWC-21	16.2	n/a	8/20/2024	3.18	No	68	n/a	n/a	0	n/a	n/a	0.0004166	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-22	16.2	n/a	8/20/2024	7.25	No	68	n/a	n/a	0	n/a	n/a	0.0004166	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-23	16.2	n/a	8/20/2024	3.68	No	68	n/a	n/a	0	n/a	n/a	0.0004166	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-21	0.148	n/a	8/20/2024	0.124	No	46	n/a	n/a	41.3	n/a	n/a	0.0009064	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-22	0.148	n/a	8/20/2024	0.066J	No	46	n/a	n/a	41.3	n/a	n/a	0.0009064	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**ARGWC-23**	**0.148**	**n/a**	**8/20/2024**	**0.365**	**Yes**	**46**	**n/a**	**n/a**	**41.3**	**n/a**	**n/a**	**0.0009064**	**NP Inter (normality) 1 of 2**
pH (SU)	**ARGWC-21**	**6.086**	**5.41**	**8/20/2024**	**6.2**	**Yes**	**45**	**5.748**	**0.1948**	**0**	**None**	**No**	**0.001253**	**Param Inter 1 of 2**
pH (SU)	ARGWC-22	6.086	5.41	8/20/2024	5.76	No	45	5.748	0.1948	0	None	No	0.001253	Param Inter 1 of 2
pH (SU)	**ARGWC-23**	**6.086**	**5.41**	**8/20/2024**	**6.34**	**Yes**	**45**	**5.748**	**0.1948**	**0**	**None**	**No**	**0.001253**	**Param Inter 1 of 2**
Sulfate (mg/L)	**ARGWC-21**	**21**	**n/a**	**8/20/2024**	**219**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004301**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**ARGWC-22**	**21**	**n/a**	**8/20/2024**	**674**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004301**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**ARGWC-23**	**21**	**n/a**	**8/20/2024**	**80.1**	**Yes**	**67**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0004301**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**ARGWC-21**	**141.1**	**n/a**	**8/20/2024**	**520**	**Yes**	**40**	**104.7**	**20.82**	**0**	**None**	**No**	**0.002505**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**ARGWC-22**	**141.1**	**n/a**	**8/20/2024**	**1180**	**Yes**	**40**	**104.7**	**20.82**	**0**	**None**	**No**	**0.002505**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**ARGWC-23**	**141.1**	**n/a**	**8/20/2024**	**328**	**Yes**	**40**	**104.7**	**20.82**	**0**	**None**	**No**	**0.002505**	**Param Inter 1 of 2**

Exceeds Limit: ARGWC-21, ARGWC-22, ARGWC-23

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 42 background values. 26.19% NDs. Annual per-constituent alpha = 0.006378. Individual comparison alpha = 0.001066 (1 of 2). Comparing 3 points to limit.

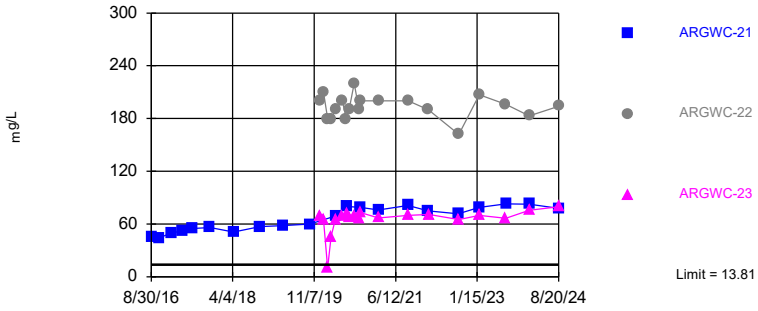
Constituent: Boron Analysis Run 9/26/2024 11:46 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Exceeds Limit: ARGWC-21, ARGWC-22, ARGWC-23

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=3.215, Std. Dev.=0.2873, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9292, critical = 0.922. Kappa = 1.744 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.002505. Comparing 3 points to limit.

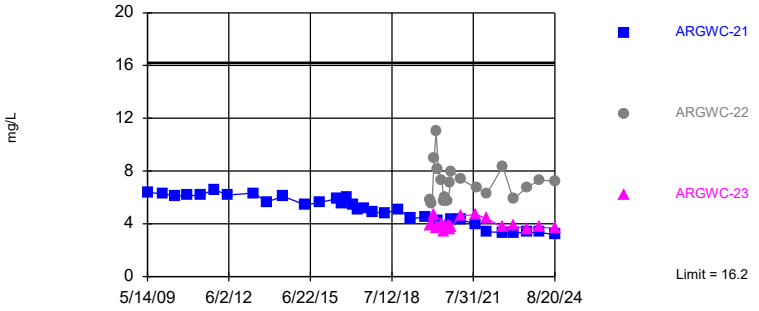
Constituent: Calcium Analysis Run 9/26/2024 11:46 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 68 background values. Annual per-constituent alpha = 0.002497. Individual comparison alpha = 0.0004166 (1 of 2). Comparing 3 points to limit.

Constituent: Chloride Analysis Run 9/26/2024 11:46 AM View: Appendix III - Interwell

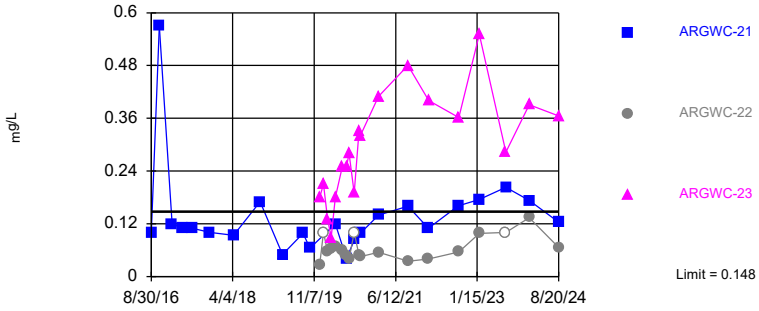
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

Exceeds Limit: ARGWC-23

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 46 background values. 41.3% NDs. Annual per-constituent alpha = 0.005426. Individual comparison alpha = 0.0009064 (1 of 2). Comparing 3 points to limit.

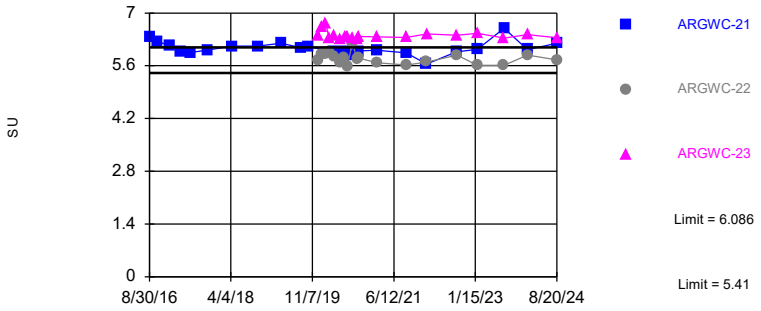
Constituent: Fluoride Analysis Run 9/26/2024 11:46 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Exceeds Limits: ARGWC-21, ARGWC-23

Prediction Limit

Interwell Parametric



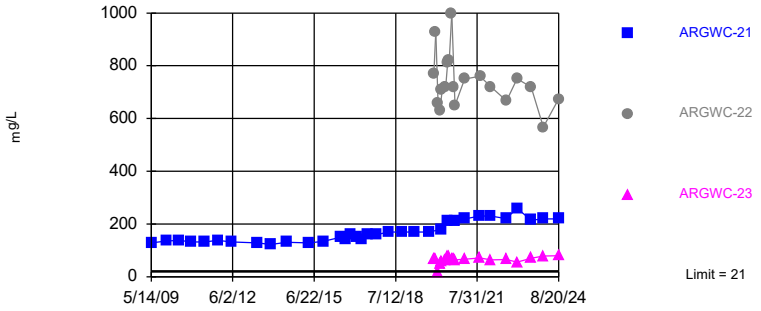
Background Data Summary: Mean=5.748, Std. Dev.=0.1948, n=45. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9722, critical = 0.926. Kappa = 1.736 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001253. Comparing 3 points to limit.

Constituent: pH Analysis Run 9/26/2024 11:46 AM View: Appendix III - Interwell
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Exceeds Limit: ARGWC-21, ARGWC-22, ARGWC-23

Prediction Limit

Interwell Non-parametric



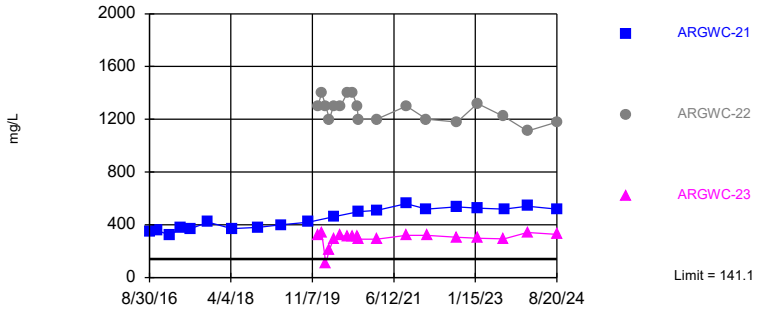
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 67 background values. Annual per-constituent alpha = 0.002578. Individual comparison alpha = 0.0004301 (1 of 2). Comparing 3 points to limit.

Constituent: Sulfate Analysis Run 9/26/2024 11:47 AM View: Appendix III - Interwell
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Exceeds Limit: ARGWC-21, ARGWC-22, ARGWC-23

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=104.7, Std. Dev.=20.82, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9558, critical = 0.919. Kappa = 1.75 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.002505. Comparing 3 points to limit.

Constituent: Total Dissolved Solids Analysis Run 9/26/2024 11:47 AM View: Appendix III - Interwell
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 9/26/2024 11:48 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
8/29/2016	0.024 (J)	<0.08			
8/30/2016			0.57		
10/24/2016	0.0339 (J)	0.0194 (J)			
10/26/2016			0.502		
1/25/2017	0.048 (J)	0.026 (J)	0.56		
4/10/2017	0.022 (J)	<0.08	0.54		
6/19/2017	<0.08		0.54		
6/20/2017		0.032 (J)			
10/24/2017	0.021 (J)	0.054	0.57		
4/9/2018		0.06			
4/10/2018	0.022 (J)		0.61		
10/16/2018	<0.08	0.036 (J)	0.59		
3/26/2019	<0.08				
3/27/2019		0.046 (J)	0.65		
10/7/2019	<0.08	<0.08			
10/8/2019			0.58		
12/16/2019				2.7	0.42
1/14/2020				2.7	0.43
2/11/2020				3	0.079 (J)
3/9/2020				2.7	0.25
4/6/2020		0.063 (J)			
4/7/2020	0.072 (J)		0.74	2.6	0.44
5/27/2020				2.5	0.45
6/24/2020				2.5	
6/25/2020	0.091	0.081	0.82		0.42
7/15/2020				2.6	0.49
8/19/2020				1.3	
8/20/2020					0.44
9/22/2020				2.8	0.5
9/29/2020	<0.08				
9/30/2020		0.083		2.9	
10/1/2020			0.9		0.49
2/9/2021	<0.08	0.059 (J)			
2/10/2021			0.81	2.5	0.42
9/7/2021	<0.08				
9/8/2021		0.064 (J)	0.79		
9/9/2021					0.41
9/10/2021				2.7	
2/1/2022	0.092	<0.08	0.85		
2/2/2022				2.4	
2/3/2022					0.49
9/1/2022	0.0238		0.921		
9/2/2022		0.0597			
9/6/2022				2.78	0.458
1/31/2023	0.0234		1.06	2.77	0.459
2/1/2023		0.0816			
8/8/2023	0.0199			3.06	0.379
8/9/2023			1.12		
8/10/2023		0.0714			
1/23/2024	0.0214	0.0685		4.52	
1/24/2024			1.13		0.456
8/20/2024	0.0236	0.0537	1.13	3.09	0.434

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 9/26/2024 11:48 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
8/29/2016	11	8.3			
8/30/2016			46		
10/24/2016	11.5	7.66			
10/26/2016			44.3		
1/25/2017	13	9.4	50		
4/10/2017	11	8.6	52		
6/19/2017	12		55		
6/20/2017		9.4			
10/24/2017	12	9.9	56		
4/9/2018		9.9			
4/10/2018	12		51		
10/16/2018	14	9.8	57		
3/26/2019	15				
3/27/2019		9.2	58		
10/7/2019	14	8.9			
10/8/2019			60		
12/16/2019				200	69
1/14/2020				210	65
2/11/2020				180	10
3/9/2020				180	46
4/6/2020		9.5			
4/7/2020	14		69	190	65
5/27/2020				200	69
6/24/2020				180	
6/25/2020	14	9.6	80		72
7/15/2020				190	68
8/19/2020				220	
8/20/2020					69
9/22/2020				190	66
9/29/2020	12				
9/30/2020		9.9		200	
10/1/2020			79		73
2/9/2021	9.7	9.2			
2/10/2021			76	200	67
9/7/2021	9.2				
9/8/2021		11	81		
9/9/2021					70
9/10/2021				200	
2/1/2022	8	8.3	75		
2/2/2022				190	
2/3/2022					71
9/1/2022	8.52		71.5		
9/2/2022		9.48			
9/6/2022				162	65.2
1/31/2023	8.5		79.1	207	69.9
2/1/2023		10.8			
8/8/2023	8.51			196	66.6
8/9/2023			82.9		
8/10/2023		11			
1/23/2024	9.34	11.4		183	
1/24/2024			82.6		75.6
8/20/2024	8.29	10.6	78	194	79.6

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 9/26/2024 11:48 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
5/5/2009	11.1				
5/14/2009		6.38			
5/15/2009			6.86		
12/5/2009	9.46	6.28	5.06		
6/1/2010	6.32		5.47		
6/2/2010		6.1			
11/11/2010	7.16	6.1461	5.26		
5/17/2011	6.84	6.17	4.8		
11/8/2011	9.13	6.6	5.62		
5/16/2012	10.8	6.18	5.1		
5/14/2013	16.2	6.32	5.25		
11/5/2013	14.8	5.65	5.19		
6/9/2014	13.6	6.08	5.55		
4/14/2015	10.4	5.43	5.39		
10/29/2015		5.62			
11/4/2015	9.19		5.38		
6/22/2016	8.4		5.7		
6/23/2016		5.9			
8/29/2016	8.4		5.3		
8/30/2016		5.5			
10/24/2016	9.6		5.4		
10/26/2016		6			
1/25/2017	8.7	5.4	5.1		
4/10/2017	8	5.1	4.9		
6/19/2017	7.6	5.2			
6/20/2017			5		
10/24/2017	7.2	4.9	4.6		
4/9/2018			4.7		
4/10/2018	7.2	4.8			
10/16/2018	10	5.1	5.3		
3/26/2019	12				
3/27/2019		4.4	4.6		
10/7/2019	11		5.2		
10/8/2019		4.5			
12/16/2019				3.9	5.8
1/14/2020				4	5.5
2/11/2020				4.7	9
3/9/2020				3.7	11
4/6/2020			5.2		
4/7/2020	11	4.2		3.8	8.1
5/27/2020				4	7.3
6/24/2020					5.7
6/25/2020	11	3.7	5.1	3.4	
7/15/2020				3.9	6
8/19/2020					5.7
8/20/2020				3.9	
9/22/2020				3.6	7.1
9/29/2020	10				
9/30/2020			5.6		8
10/1/2020		4.3		3.8	
2/9/2021	8.6		6		
2/10/2021		4.3		4.6	7.4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 9/26/2024 11:48 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
9/7/2021	7.4				
9/8/2021		4	5.9		
9/9/2021				4.7	
9/10/2021					6.7
2/1/2022	6.8	3.4	5.7		
2/2/2022					6.3
2/3/2022				4.4	
9/1/2022	6.27	3.34			
9/2/2022			5.44		
9/6/2022				3.73	8.34
1/31/2023	6.04	3.3		3.84	5.88
2/1/2023			6		
8/8/2023	6.37			3.6	6.79
8/9/2023		3.35			
8/10/2023			6.5		
1/23/2024	5.63		6.68		7.31
1/24/2024		3.35		3.74	
8/20/2024	4.89	3.18	7.63	3.68	7.25

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 9/26/2024 11:48 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/2016	<0.1	<0.1			
8/30/2016			0.099 (J)		
10/24/2016	0.07 (J)	0.04 (J)			
10/26/2016			0.57		
1/25/2017	<0.1	<0.1	0.12 (J)		
4/10/2017	<0.1	<0.1	0.11 (J)		
6/19/2017	<0.1		0.11 (J)		
6/20/2017		<0.1			
10/24/2017	<0.1	<0.1	0.1 (J)		
4/9/2018		<0.1			
4/10/2018	<0.1		0.094 (J)		
10/16/2018	0.083 (J)	<0.1	0.17 (J)		
3/26/2019	0.041 (J)				
3/27/2019		<0.1	0.05 (J)		
8/20/2019	0.045 (J)	0.042 (J)	0.098 (J)		
10/7/2019	0.049 (J)	0.036 (J)			
10/8/2019			0.065 (J)		
12/16/2019				0.18 (J)	0.026 (J)
1/14/2020				0.21	<0.1
2/11/2020				0.13	0.056
3/9/2020				0.089 (J)	0.064 (J)
4/6/2020		0.059 (J)			
4/7/2020	0.14		0.12	0.18	0.068 (J)
5/27/2020				0.25	0.06 (J)
6/24/2020					0.048 (J)
6/25/2020	0.03 (J)	<0.1	0.041 (J)	0.25	
7/15/2020				0.28	0.04 (J)
8/19/2020	<0.1	<0.1			<0.1
8/20/2020				0.19	
8/21/2020			0.084 (J)		
9/22/2020				0.33	0.049 (J)
9/29/2020	0.051 (J)				
9/30/2020		0.032 (J)			0.045 (J)
10/1/2020			0.098 (J)	0.32	
2/9/2021	0.059 (J)	0.048 (J)			
2/10/2021			0.14	0.41	0.055 (J)
9/7/2021	0.1				
9/8/2021		0.067 (J)	0.16		
9/9/2021				0.48	
9/10/2021					0.035 (J)
2/1/2022	0.076 (J)	0.028 (J)	0.11		
2/2/2022					0.04 (J)
2/3/2022				0.4	
9/1/2022	0.148		0.161		
9/2/2022		0.122			
9/6/2022				0.362	0.056 (J)
1/31/2023	0.108 (J)		0.175 (J)	0.551 (J)	0.0979 (J)
2/1/2023		0.121			
8/8/2023	<0.1			0.283	<0.1
8/9/2023			0.203		
8/10/2023		<0.1			
1/23/2024	0.121	0.113			0.134

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 9/26/2024 11:48 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
1/24/2024			0.173	0.391	
8/20/2024	0.0679 (J)	0.0488 (J)	0.124	0.365	0.066 (J)

Prediction Limit

Constituent: pH (SU) Analysis Run 9/26/2024 11:48 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWA-19 (bg)	ARGWC-23	ARGWC-22
8/29/2016	5.64		6.75 (o)		
8/30/2016		6.38			
10/24/2016	5.6		5.81		
10/26/2016		6.23			
1/25/2017	5.65	6.15	5.91		
4/10/2017	5.42	5.99	5.74		
6/19/2017		5.95	5.54		
6/20/2017	5.59				
10/24/2017	5.58	6.02	5.82		
4/9/2018	5.78				
4/10/2018		6.12	5.92		
10/16/2018	5.69	6.12	5.94		
3/26/2019			5.85		
3/27/2019	5.96	6.2			
8/20/2019	5.57	6.08	5.9		
10/7/2019	5.65		5.89		
10/8/2019		6.11			
12/16/2019				6.41	5.74
1/14/2020				6.62	5.91
2/11/2020				6.71	5.9
3/9/2020				6.32	5.97
4/6/2020	5.53				
4/7/2020		5.96	5.72	6.4	5.84
5/27/2020				6.3	5.69
6/24/2020					5.82
6/25/2020	5.61	5.98	5.8	6.37	
7/15/2020				6.36	5.58
8/19/2020	6.16		6.25		6.21
8/20/2020				6.33	
8/21/2020		5.89			
9/22/2020				6.29	5.77
9/29/2020			5.83		
9/30/2020	5.65				5.81
10/1/2020		5.99		6.38	
2/9/2021	5.66		5.97		
2/10/2021		6.01		6.37	5.68
9/7/2021			5.85		
9/8/2021	5.59	5.94			
9/9/2021				6.35	
9/10/2021					5.62
2/1/2022	5.14	5.65	5.52		
2/2/2022					5.7
2/3/2022				6.44	
9/1/2022		5.97	5.88		
9/2/2022	5.68				
9/6/2022				6.41	5.88
1/31/2023		6.04	5.86	6.46	5.61
2/1/2023	5.7				
8/8/2023			5.81	6.33	5.61
8/9/2023		6.6			
8/10/2023	5.55				
1/23/2024	5.77		5.93		5.88

Prediction Limit

Constituent: pH (SU) Analysis Run 9/26/2024 11:48 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-20 (bg)	ARGWC-21	ARGWA-19 (bg)	ARGWC-23	ARGWC-22
1/24/2024		6.03		6.43	
8/20/2024	5.83	6.2	5.93	6.34	5.76

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 9/26/2024 11:48 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
5/5/2009	15.9				
5/14/2009		129			
5/15/2009			41.3 (o)		
12/5/2009	15.1	136	16.2		
6/1/2010	12.7		18.2		
6/2/2010		138			
11/11/2010	11.5	131.49	16.5		
5/17/2011	11.2	132	16		
11/8/2011	11.3	138	21		
5/16/2012	9.38	132	17.7		
5/14/2013	8.74	129	19.5		
11/5/2013	9.12	122	18.3		
6/9/2014	8.61	131	18.6		
4/14/2015	8.45	128	18.8		
10/29/2015		134			
11/4/2015	9.01		17.4		
6/22/2016	9.3		18		
6/23/2016		150			
8/29/2016	8.7		18		
8/30/2016		140			
10/24/2016	9.3		18		
10/26/2016		160			
1/25/2017	8.8	150	19		
4/10/2017	7.8	140	16		
6/19/2017	8.6	160			
6/20/2017			18		
10/24/2017	9.1	160	19		
4/9/2018			18		
4/10/2018	7.9	170			
10/16/2018	8.2	170	18		
3/26/2019	6.1				
3/27/2019		170	15		
10/7/2019	7.4		17		
10/8/2019		170			
12/16/2019				66	770
1/14/2020				68	930
2/11/2020				18	660
3/9/2020				49	630
4/6/2020			15		
4/7/2020	8.4	180		58	710
5/27/2020				65	720
6/24/2020					810
6/25/2020	9.8	210	16	77	
7/15/2020				78	820
8/19/2020					1000
8/20/2020				69	
9/22/2020				68	720
9/29/2020	8.4				
9/30/2020			15		650
10/1/2020		210		64	
2/9/2021	10		16		
2/10/2021		220		67	750

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 9/26/2024 11:48 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
9/7/2021	9.9				
9/8/2021		230	16		
9/9/2021				72	
9/10/2021					760
2/1/2022	10	230	18		
2/2/2022					720
2/3/2022				64	
9/1/2022	8.38	221			
9/2/2022			18.5		
9/6/2022				65.3	667
1/31/2023	7.55	260		55.5	751
2/1/2023			19.3		
8/8/2023	8.29			69.8	719
8/9/2023		214			
8/10/2023			18.5		
1/23/2024	6.98		17.1		567
1/24/2024		219		78.4	
8/20/2024	7.07	219	16.4	80.1	674

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 9/26/2024 11:48 AM View: Appendix III - Interwell

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/2016	130	100			
8/30/2016			350		
10/24/2016	108	91			
10/26/2016			357		
1/25/2017	120	90	320		
4/10/2017	128 (D)	110	380		
6/19/2017	86		370		
6/20/2017		72			
10/24/2017	120	110	420		
4/9/2018		100			
4/10/2018	120		370		
10/16/2018	140	110	380		
3/26/2019	170				
3/27/2019		100	400		
10/7/2019	150	87			
10/8/2019			420		
12/16/2019				320	1300
1/14/2020				340	1400
2/11/2020				110	1300
3/9/2020				210	1200
4/6/2020		90			
4/7/2020	120		460	290	1300
5/27/2020				320	1300
7/15/2020				310	1400
8/19/2020					1400
8/20/2020				310	
9/22/2020				310	1300
9/29/2020	110				
9/30/2020		82			1200
10/1/2020			500	290	
2/9/2021	110	100			
2/10/2021			510	290	1200
9/7/2021	110				
9/8/2021		120	560		
9/9/2021				320	
9/10/2021					1300
2/1/2022	91	100	520		
2/2/2022					1200
2/3/2022				320	
9/1/2022	81		537		
9/2/2022		101			
9/6/2022				305	1180
1/31/2023	95		526	299	1320
2/1/2023		90			
8/8/2023	62			294	1220
8/9/2023			520		
8/10/2023		105			
1/23/2024	82	92			1110
1/24/2024			541	342	
8/20/2024	91	113	520	328	1180

FIGURE F.

Appendix III Trend Test - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/26/2024, 11:53 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Boron (mg/L)	**ARGWC-21**	**0.07619**	**175**	**87**	**Yes**	**21**	**0**	**0.01**	**NP**
Calcium (mg/L)	**ARGWA-20 (bg)**	**0.2776**	**95**	**87**	**Yes**	**21**	**0**	**0.01**	**NP**
Calcium (mg/L)	**ARGWC-21**	**4.91**	**160**	**87**	**Yes**	**21**	**0**	**0.01**	**NP**
Fluoride (mg/L)	**ARGWC-23**	**0.08957**	**105**	**74**	**Yes**	**19**	**0**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWA-19 (bg)**	**-0.2378**	**-276**	**-176**	**Yes**	**34**	**0**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWC-21**	**8.192**	**422**	**176**	**Yes**	**34**	**0**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**ARGWA-19 (bg)**	**-5.289**	**-84**	**-81**	**Yes**	**20**	**0**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**ARGWC-21**	**27.93**	**146**	**81**	**Yes**	**20**	**0**	**0.01**	**NP**

Appendix III Trend Test - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/26/2024, 11:53 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Boron (mg/L)	ARGWA-19 (bg)	0	-2	-87	No	21	33.33	0.01	NP
Boron (mg/L)	ARGWA-20 (bg)	0.003024	58	87	No	21	19.05	0.01	NP
Boron (mg/L)	**ARGWC-21**	**0.07619**	**175**	**87**	**Yes**	**21**	**0**	**0.01**	**NP**
Boron (mg/L)	ARGWC-22	0.07412	41	74	No	19	0	0.01	NP
Boron (mg/L)	ARGWC-23	0.007449	32	74	No	19	0	0.01	NP
Calcium (mg/L)	ARGWA-19 (bg)	-0.4657	-75	-87	No	21	0	0.01	NP
Calcium (mg/L)	**ARGWA-20 (bg)**	**0.2776**	**95**	**87**	**Yes**	**21**	**0**	**0.01**	**NP**
Calcium (mg/L)	**ARGWC-21**	**4.91**	**160**	**87**	**Yes**	**21**	**0**	**0.01**	**NP**
Calcium (mg/L)	ARGWC-22	0	-2	-74	No	19	0	0.01	NP
Calcium (mg/L)	ARGWC-23	2.173	69	74	No	19	0	0.01	NP
Fluoride (mg/L)	ARGWA-19 (bg)	0	21	98	No	23	34.78	0.01	NP
Fluoride (mg/L)	ARGWA-20 (bg)	0	-2	-98	No	23	47.83	0.01	NP
Fluoride (mg/L)	**ARGWC-23**	**0.08957**	**105**	**74**	**Yes**	**19**	**0**	**0.01**	**NP**
pH (SU)	ARGWA-19 (bg)	0.008207	32	92	No	22	0	0.01	NP
pH (SU)	ARGWA-20 (bg)	0.0127	41	98	No	23	0	0.01	NP
pH (SU)	ARGWC-21	-0.01714	-50	-98	No	23	0	0.01	NP
pH (SU)	ARGWC-23	-0.005069	-8	-74	No	19	0	0.01	NP
Sulfate (mg/L)	**ARGWA-19 (bg)**	**-0.2378**	**-276**	**-176**	**Yes**	**34**	**0**	**0.01**	**NP**
Sulfate (mg/L)	ARGWA-20 (bg)	-0.03643	-70	-167	No	33	0	0.01	NP
Sulfate (mg/L)	**ARGWC-21**	**8.192**	**422**	**176**	**Yes**	**34**	**0**	**0.01**	**NP**
Sulfate (mg/L)	ARGWC-22	-17.79	-32	-74	No	19	0	0.01	NP
Sulfate (mg/L)	ARGWC-23	2.748	49	74	No	19	0	0.01	NP
Total Dissolved Solids (mg/L)	**ARGWA-19 (bg)**	**-5.289**	**-84**	**-81**	**Yes**	**20**	**0**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	ARGWA-20 (bg)	0.2883	24	81	No	20	0	0.01	NP
Total Dissolved Solids (mg/L)	**ARGWC-21**	**27.93**	**146**	**81**	**Yes**	**20**	**0**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	ARGWC-22	-27.81	-60	-68	No	18	0	0.01	NP
Total Dissolved Solids (mg/L)	ARGWC-23	1.889	23	68	No	18	0	0.01	NP

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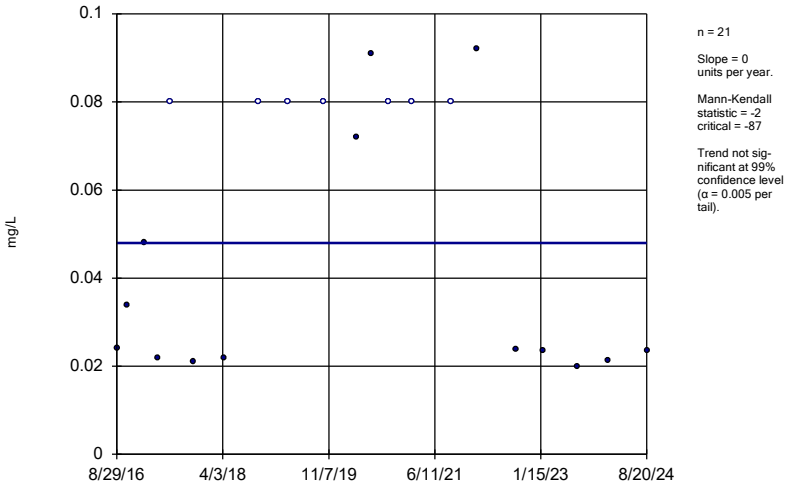
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-19 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -2 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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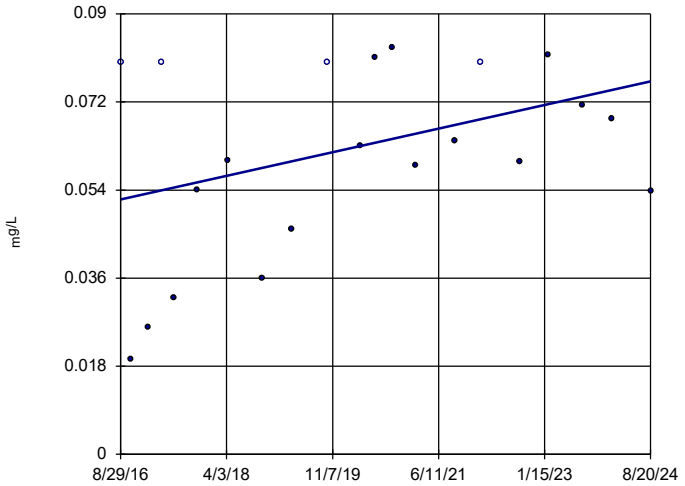
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-20 (bg)



n = 21

Slope = 0.003024 units per year.

Mann-Kendall statistic = 58 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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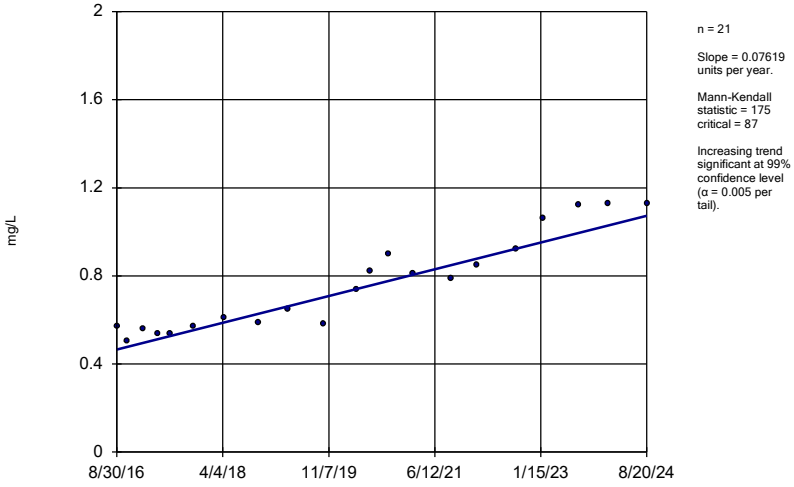
Sen's Slope Estimator

ARGWC-21



n = 21

Slope = 0.07619 units per year.

Mann-Kendall statistic = 175 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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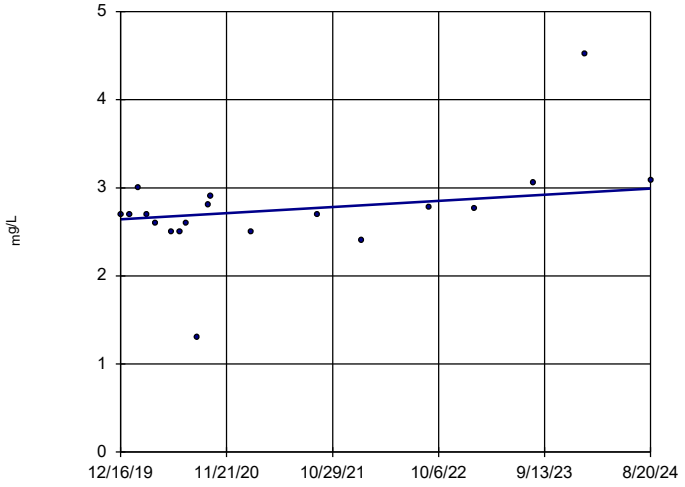
Sen's Slope Estimator

ARGWC-22



n = 19

Slope = 0.07412 units per year.

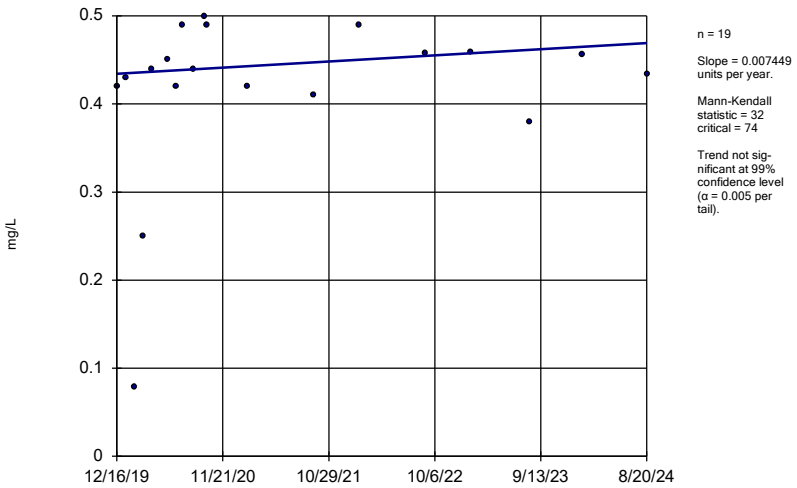
Mann-Kendall statistic = 41 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWC-23



n = 19

Slope = 0.007449 units per year.

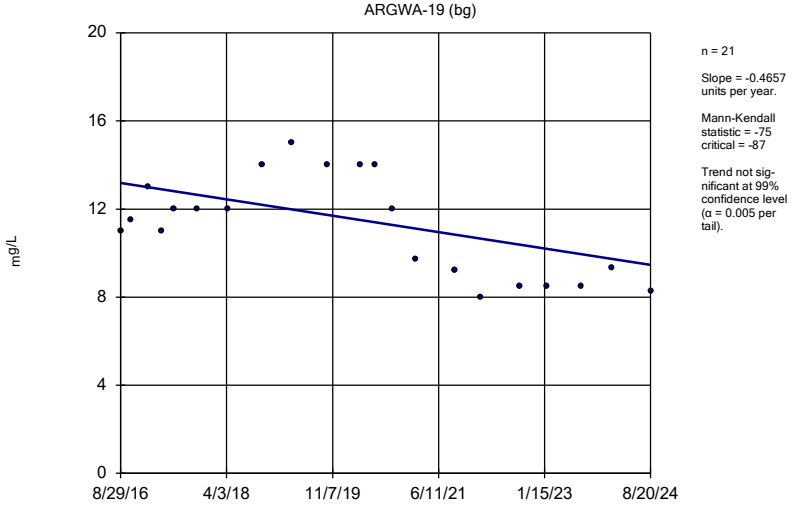
Mann-Kendall statistic = 32
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWA-19 (bg)



n = 21

Slope = -0.4657 units per year.

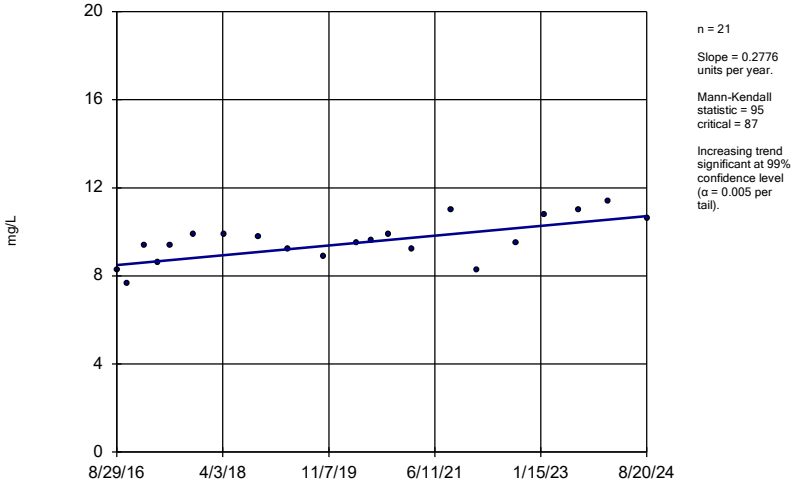
Mann-Kendall statistic = -75
critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWA-20 (bg)



n = 21

Slope = 0.2776 units per year.

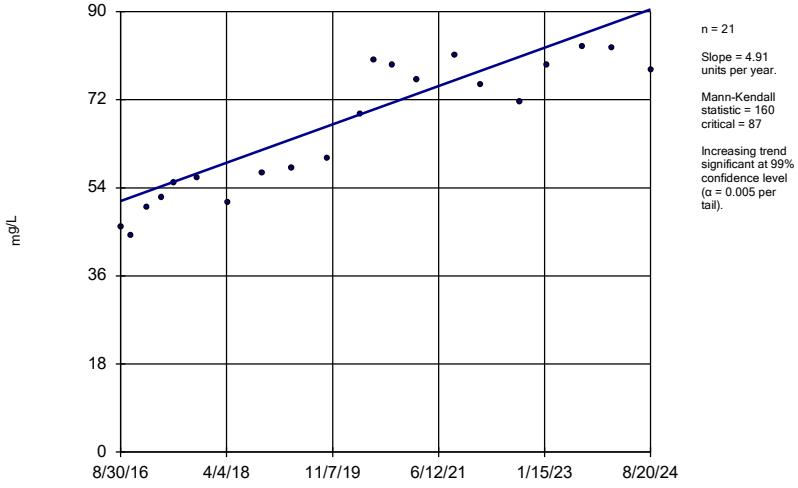
Mann-Kendall statistic = 95
critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWC-21



n = 21

Slope = 4.91 units per year.

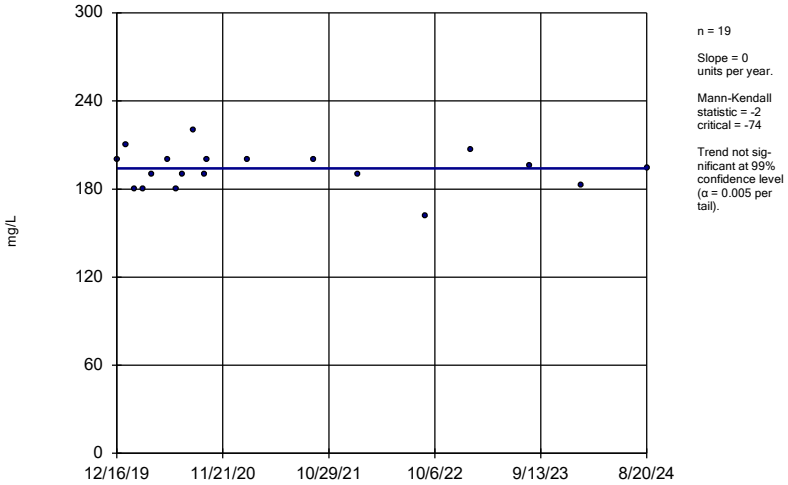
Mann-Kendall statistic = 160
critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWC-22



n = 19

Slope = 0 units per year.

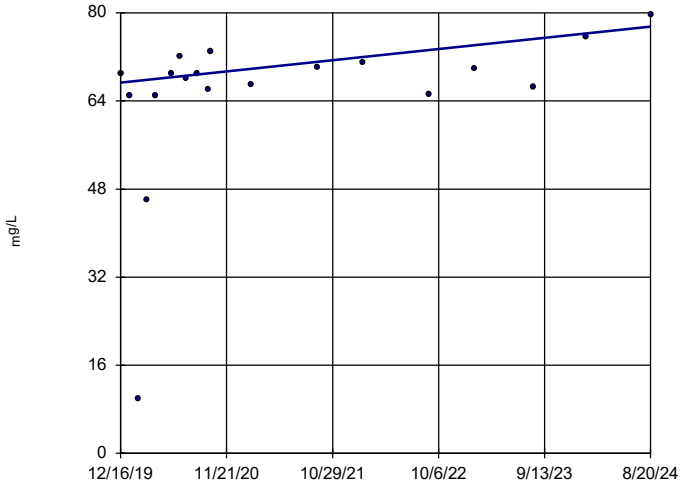
Mann-Kendall statistic = -2
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWC-23



n = 19

Slope = 2.173 units per year.

Mann-Kendall statistic = 69
critical = 74

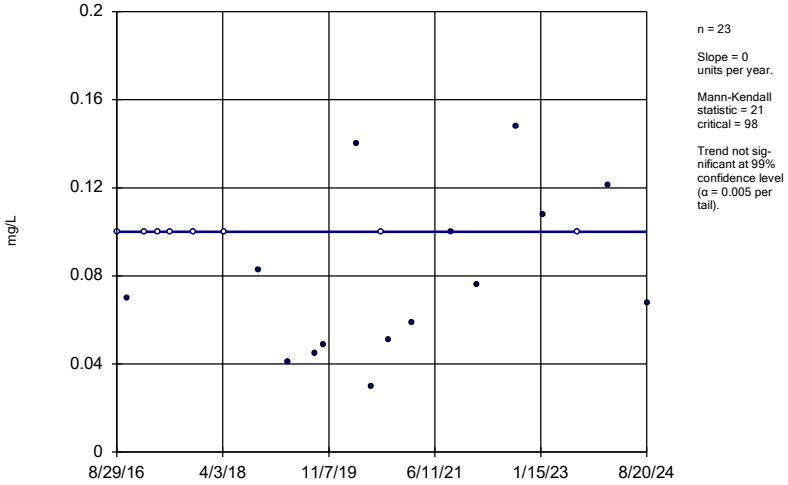
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-19 (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 21
critical = 98

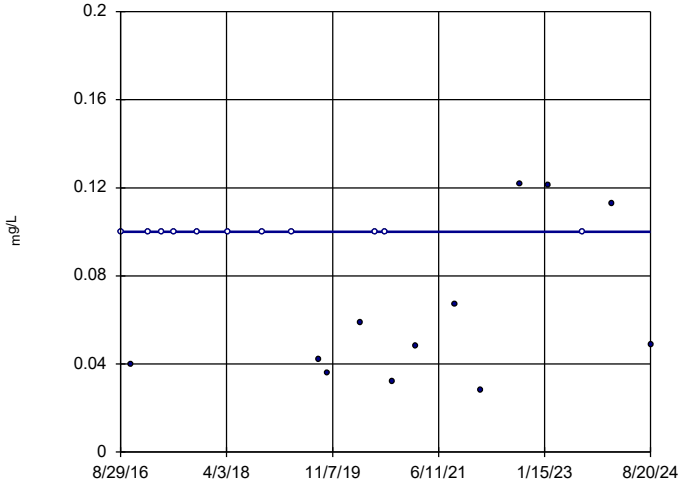
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-20 (bg)



n = 23

Slope = 0 units per year.

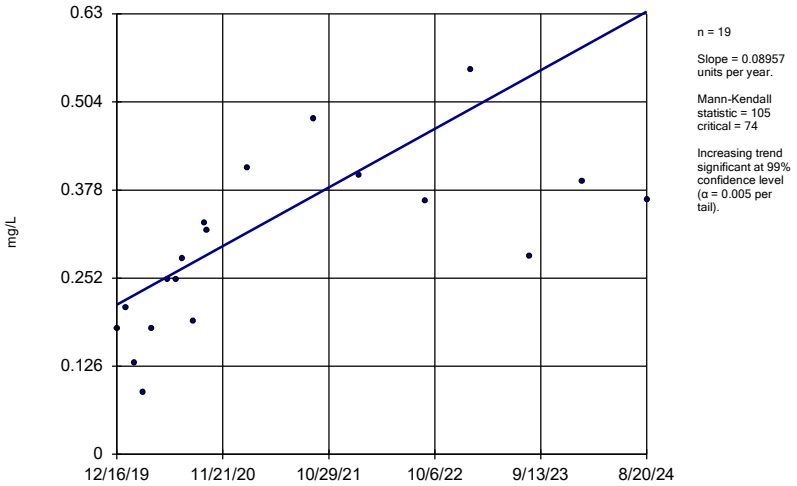
Mann-Kendall statistic = -2
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWC-23



n = 19

Slope = 0.08957 units per year.

Mann-Kendall statistic = 105 critical = 74

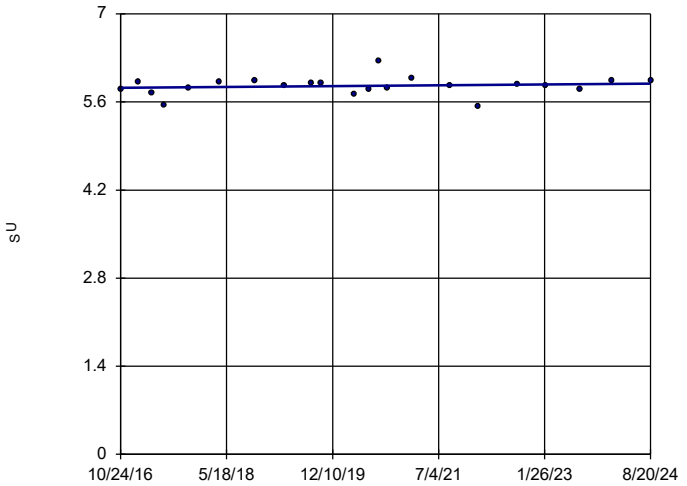
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWA-19 (bg)



n = 22

Slope = 0.008207 units per year.

Mann-Kendall statistic = 32 critical = 92

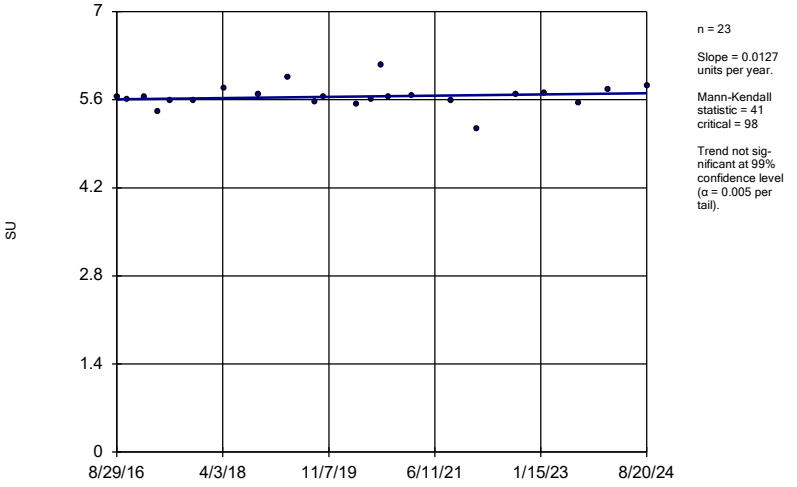
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWA-20 (bg)



n = 23

Slope = 0.0127 units per year.

Mann-Kendall statistic = 41 critical = 98

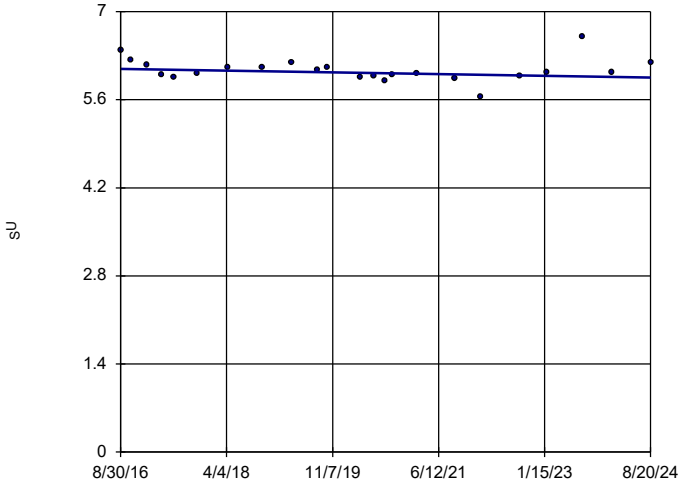
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWC-21



n = 23

Slope = -0.01714 units per year.

Mann-Kendall statistic = -50 critical = -98

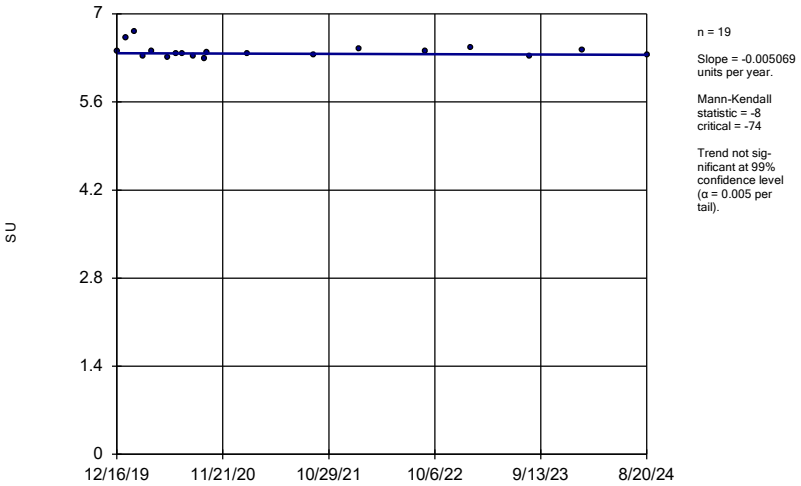
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWC-23



n = 19

Slope = -0.005069 units per year.

Mann-Kendall statistic = -8 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 2

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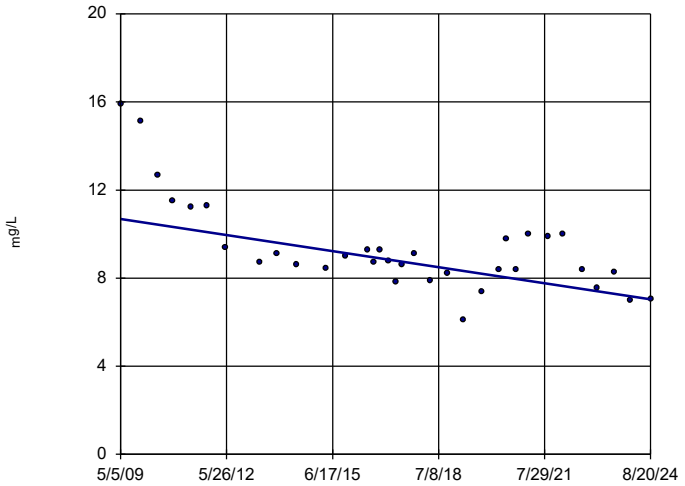
Sen's Slope Estimator

ARGWA-19 (bg)



n = 34

Slope = -0.2378 units per year.

Mann-Kendall statistic = -276 critical = -176

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 2

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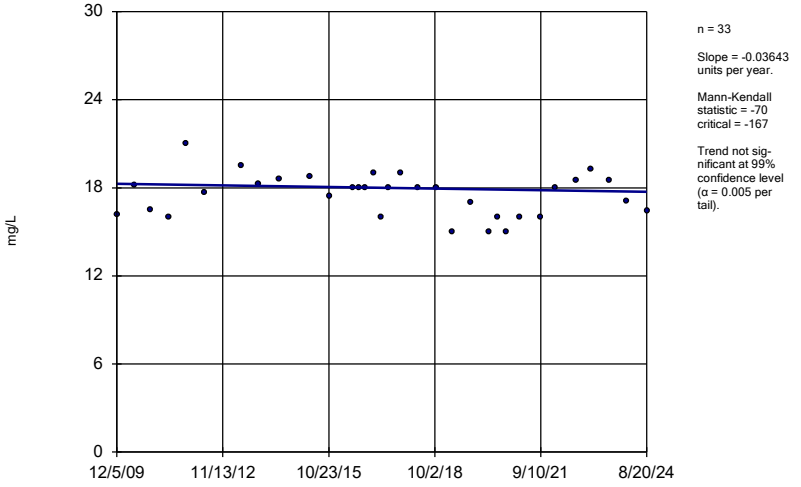
Sen's Slope Estimator

ARGWA-20 (bg)



n = 33

Slope = -0.03643 units per year.

Mann-Kendall statistic = -70 critical = -167

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 2

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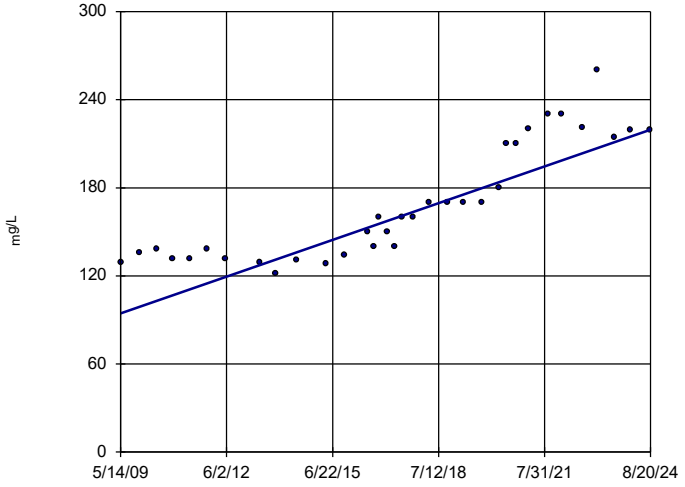
Sen's Slope Estimator

ARGWC-21



n = 34

Slope = 8.192 units per year.

Mann-Kendall statistic = 422 critical = 176

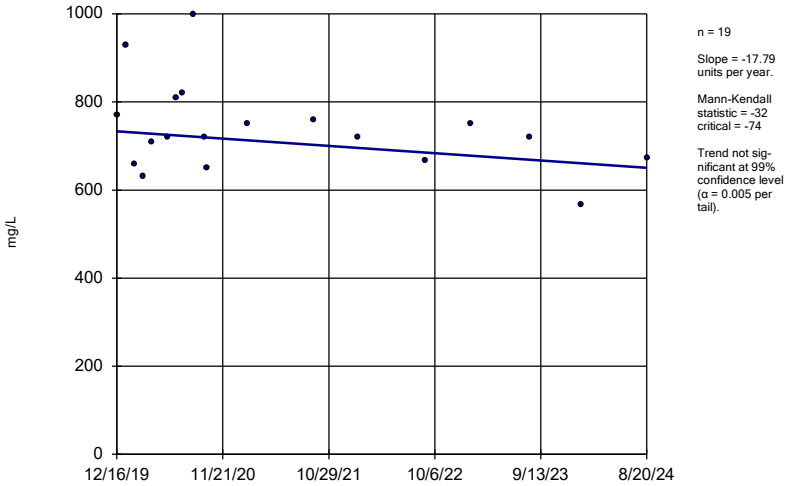
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWC-22



n = 19

Slope = -17.79 units per year.

Mann-Kendall statistic = -32
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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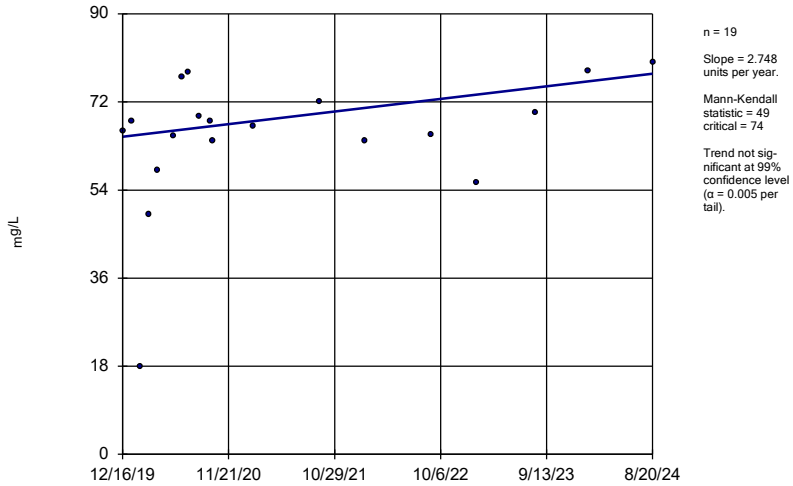
Sen's Slope Estimator

ARGWC-23



n = 19

Slope = 2.748 units per year.

Mann-Kendall statistic = 49
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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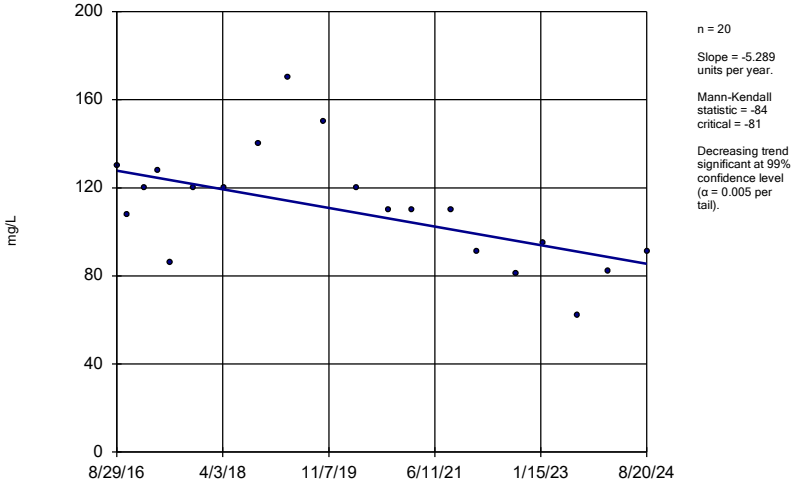
Sen's Slope Estimator

ARGWA-19 (bg)



n = 20

Slope = -5.289 units per year.

Mann-Kendall statistic = -84
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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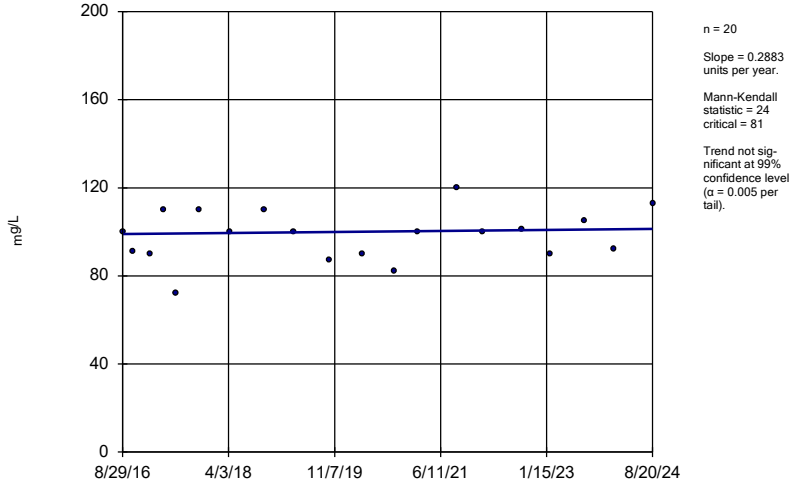
Sen's Slope Estimator

ARGWA-20 (bg)



n = 20

Slope = 0.2883 units per year.

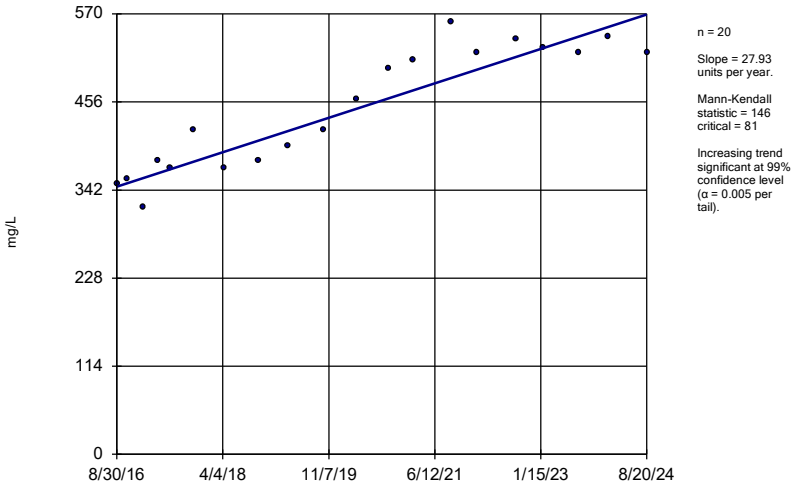
Mann-Kendall statistic = 24
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWC-21



n = 20

Slope = 27.93 units per year.

Mann-Kendall statistic = 146 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 2

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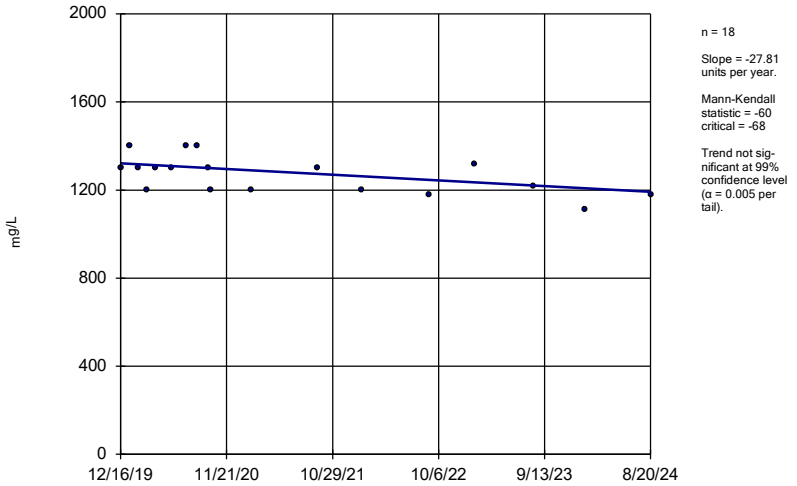
Sen's Slope Estimator

ARGWC-22



n = 18

Slope = -27.81 units per year.

Mann-Kendall statistic = -60 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 2

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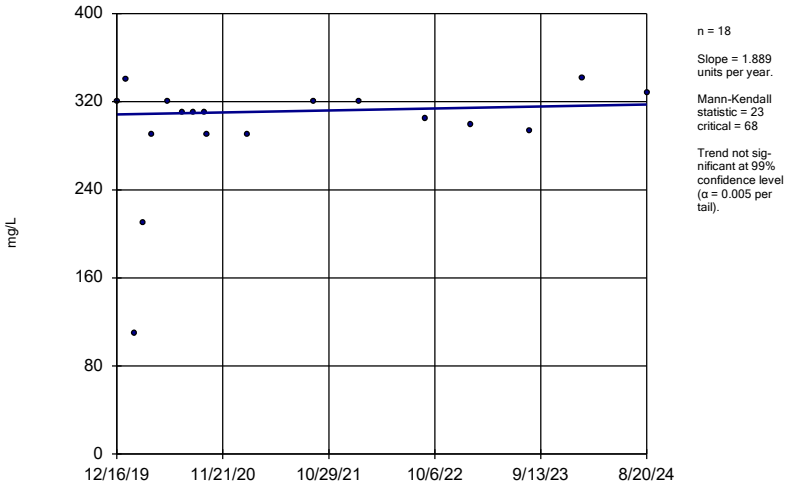
Sen's Slope Estimator

ARGWC-23



n = 18

Slope = 1.889 units per year.

Mann-Kendall statistic = 23 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 9/26/2024 11:51 AM View: Appendix III - Trend Tests

Plant Arkwright Client: Southern Company Data: Arkwright No 2

FIGURE G.

Upper Tolerance Limits

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/26/2024, 12:01 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	34	100	n/a	0.1748	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	72	87.5	n/a	0.02489	NP Inter(NDs)
Barium (mg/L)	n/a	0.107	n/a	n/a	n/a	72	0	n/a	0.02489	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	38	92.11	n/a	0.1424	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.001	n/a	n/a	n/a	70	98.57	n/a	0.02758	NP Inter(NDs)
Chromium (mg/L)	n/a	0.01	n/a	n/a	n/a	42	26.19	n/a	0.116	NP Inter(normality)
Cobalt (mg/L)	n/a	0.001	n/a	n/a	n/a	44	68.18	n/a	0.1047	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	2.65	n/a	n/a	n/a	42	2.381	n/a	0.116	NP Inter(normality)
Fluoride (mg/L)	n/a	0.148	n/a	n/a	n/a	46	41.3	n/a	0.09447	NP Inter(normality)
Lead (mg/L)	n/a	0.002	n/a	n/a	n/a	72	87.5	n/a	0.02489	NP Inter(NDs)
Lithium (mg/L)	n/a	0.013	n/a	n/a	n/a	44	43.18	n/a	0.1047	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	34	94.12	n/a	0.1748	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.001	n/a	n/a	n/a	40	82.5	n/a	0.1285	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	71	67.61	n/a	0.0262	NP Inter(NDs)
Silver (mg/L)	n/a	0.001	n/a	n/a	n/a	62	91.94	n/a	0.04158	NP Inter(NDs)
Thallium (mg/L)	n/a	0.002	n/a	n/a	n/a	34	97.06	n/a	0.1748	NP Inter(NDs)

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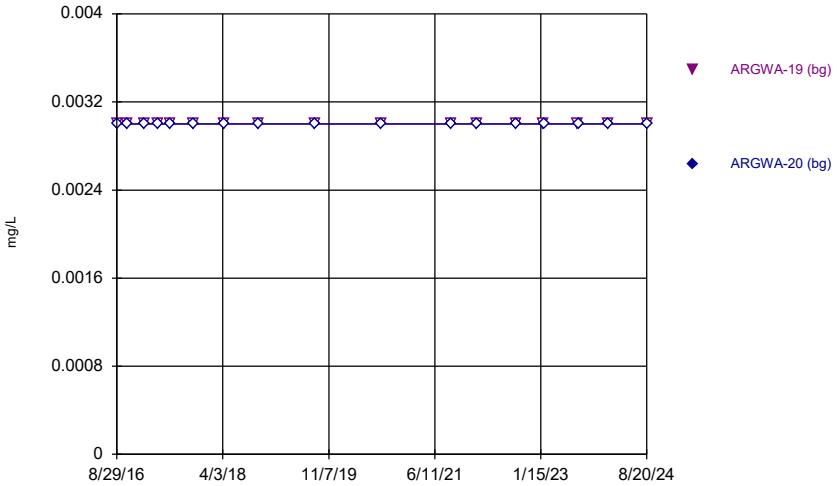
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 9/26/2024 11:59 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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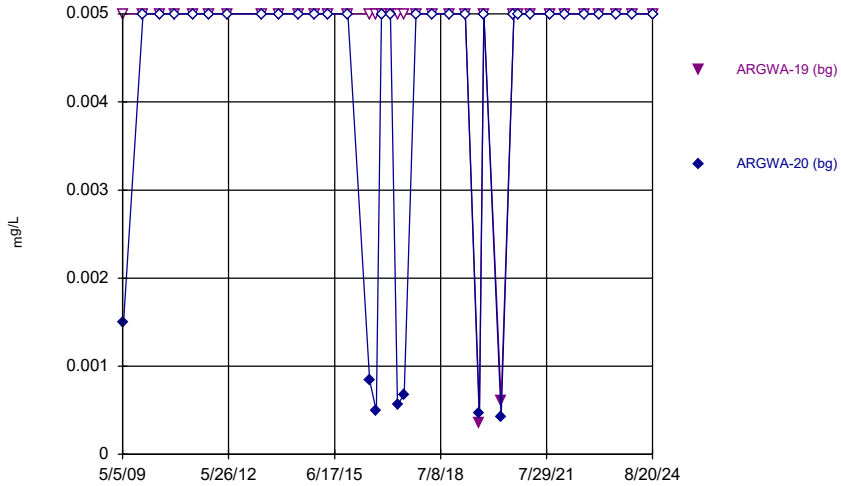
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 9/26/2024 11:59 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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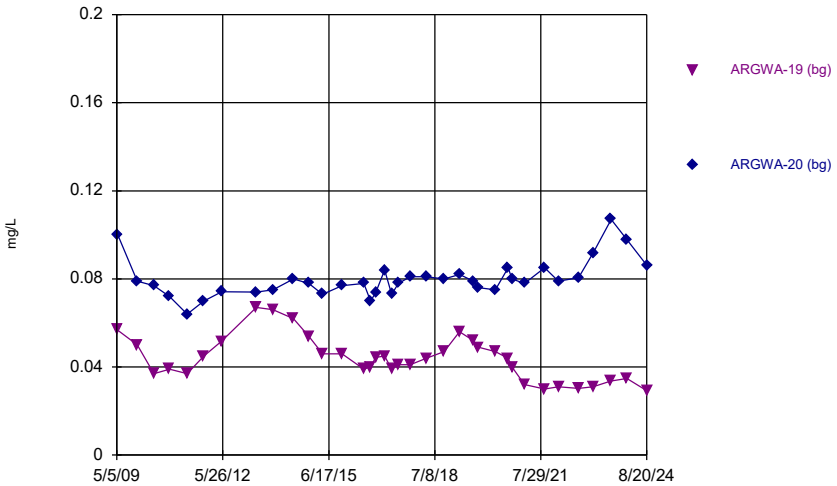
Time Series



Constituent: Barium Analysis Run 9/26/2024 11:59 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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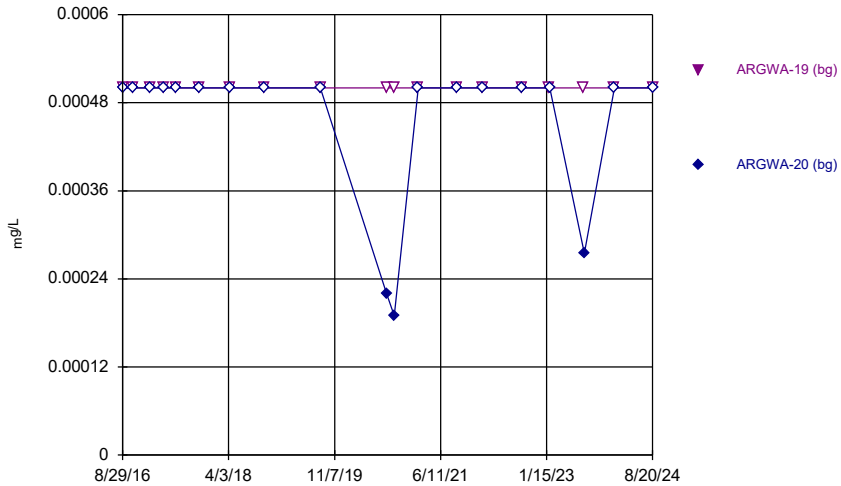
Hollow symbols indicate censored values.

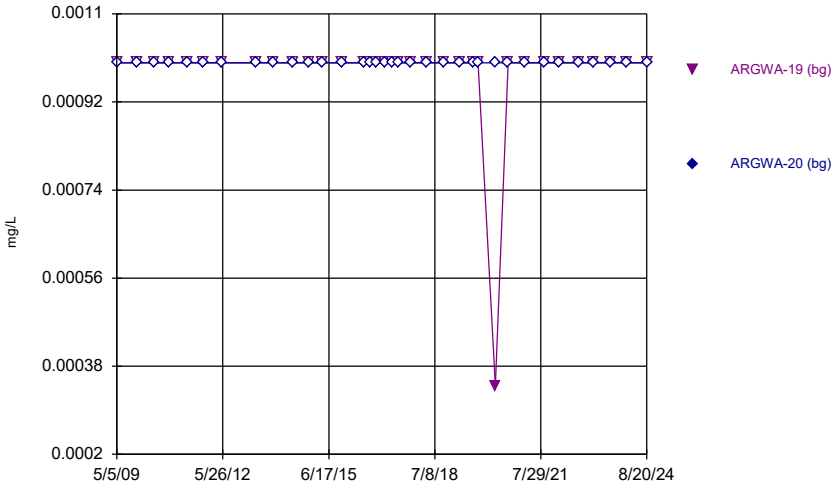
Time Series



Constituent: Beryllium Analysis Run 9/26/2024 11:59 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 9/26/2024 11:59 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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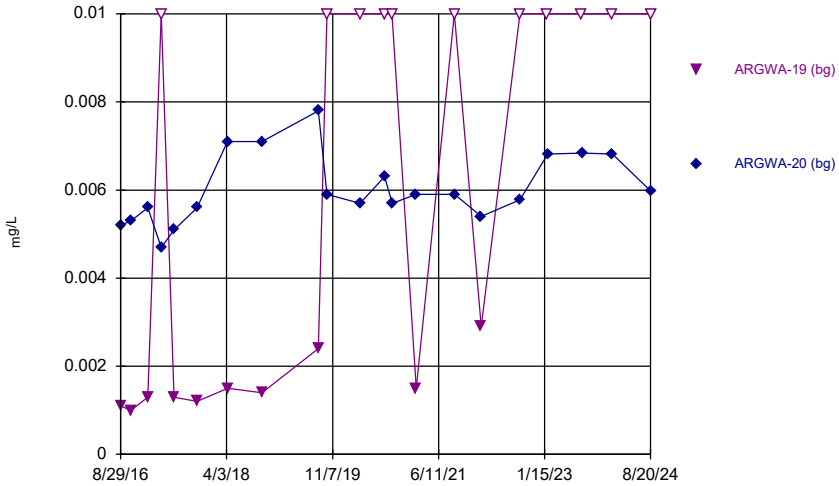
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Analysis Run 9/26/2024 11:59 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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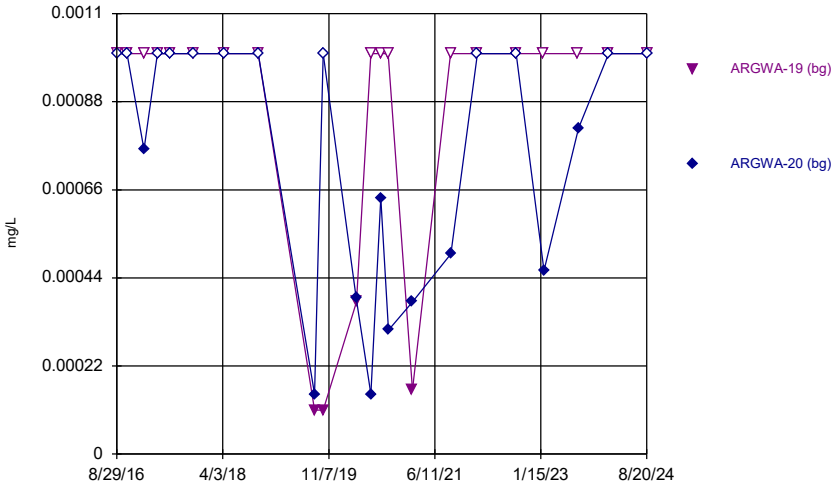
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 9/26/2024 11:59 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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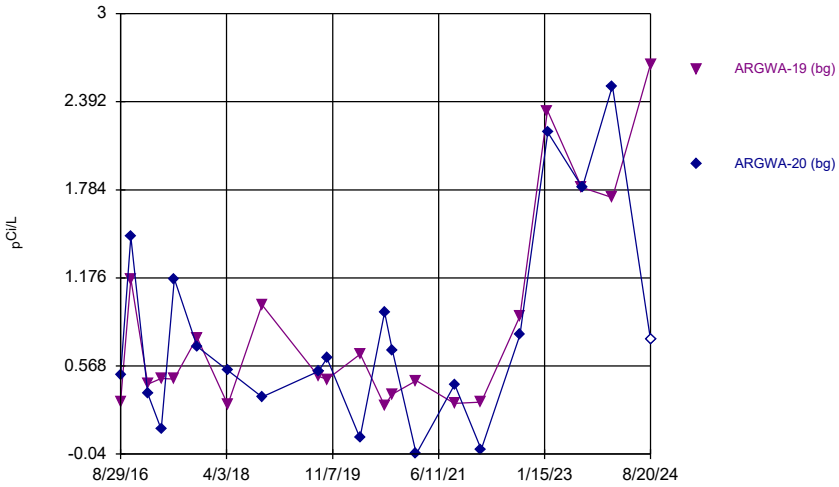
Hollow symbols indicate censored values.

Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 9/26/2024 11:59 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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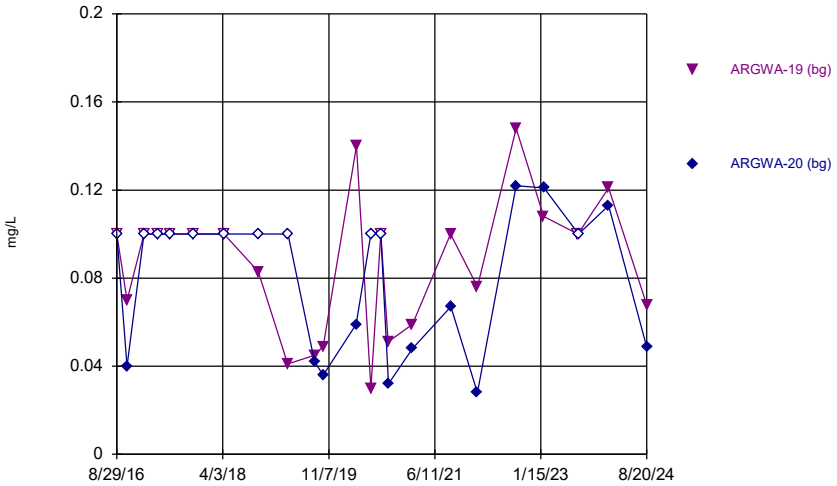
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 9/26/2024 11:59 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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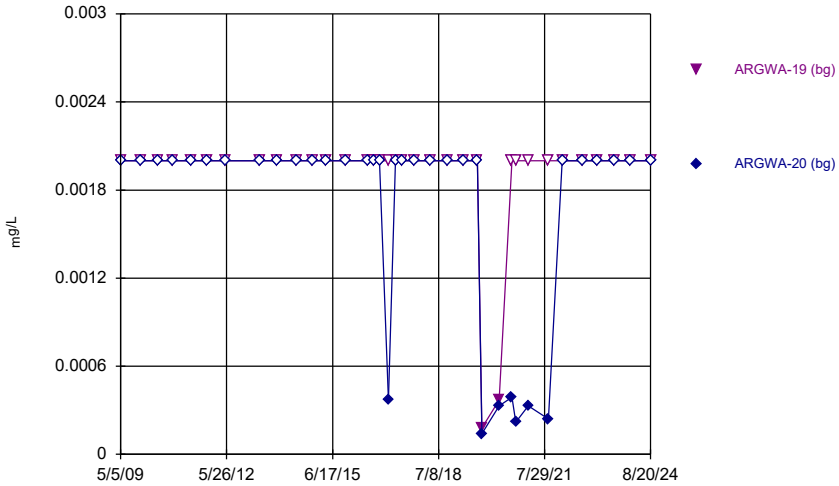
Hollow symbols indicate censored values.

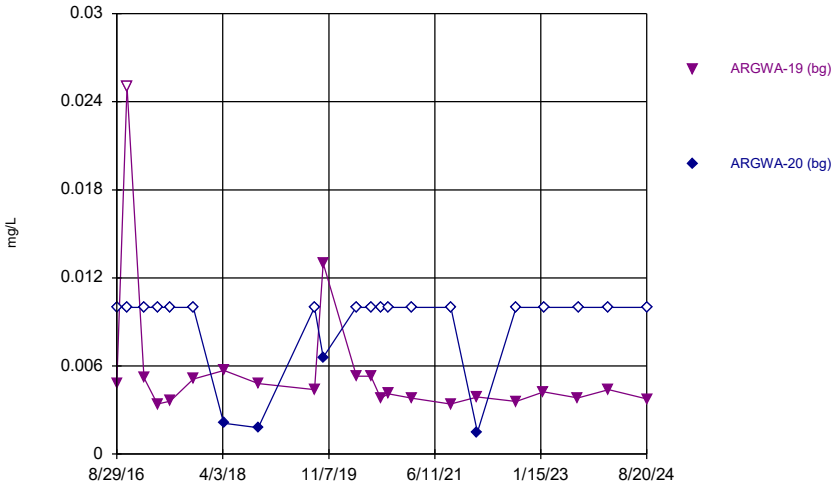
Time Series



Constituent: Lead Analysis Run 9/26/2024 11:59 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

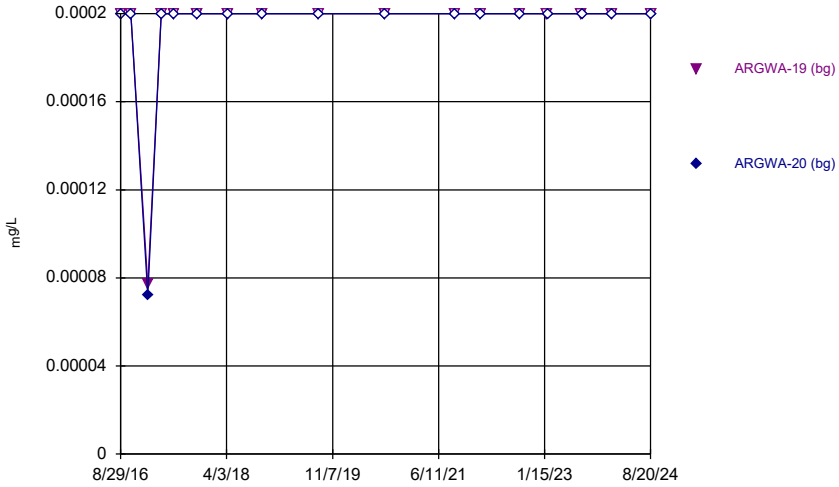
Time Series



Constituent: Lithium Analysis Run 9/26/2024 11:59 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

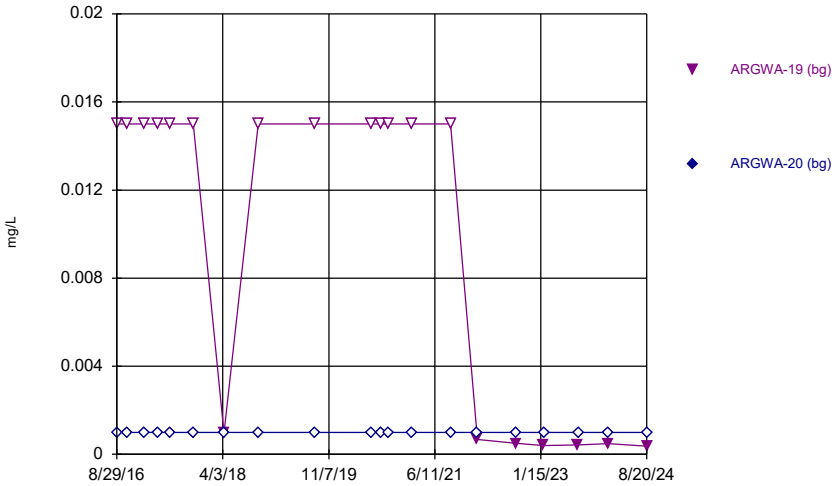
Time Series



Constituent: Mercury Analysis Run 9/26/2024 11:59 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

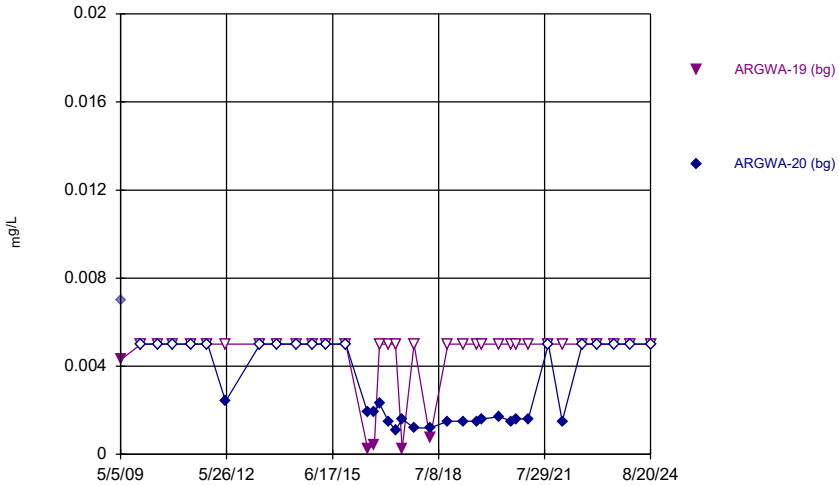
Time Series



Constituent: Molybdenum Analysis Run 9/26/2024 11:59 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

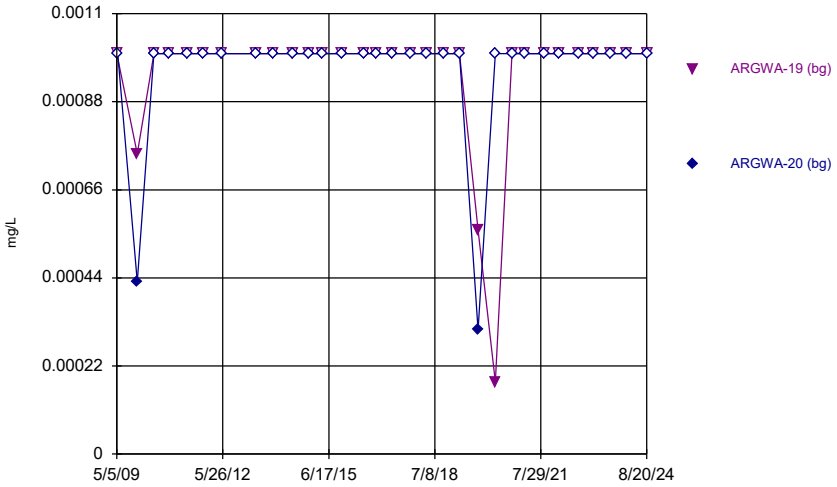
Time Series



Constituent: Selenium Analysis Run 9/26/2024 11:59 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

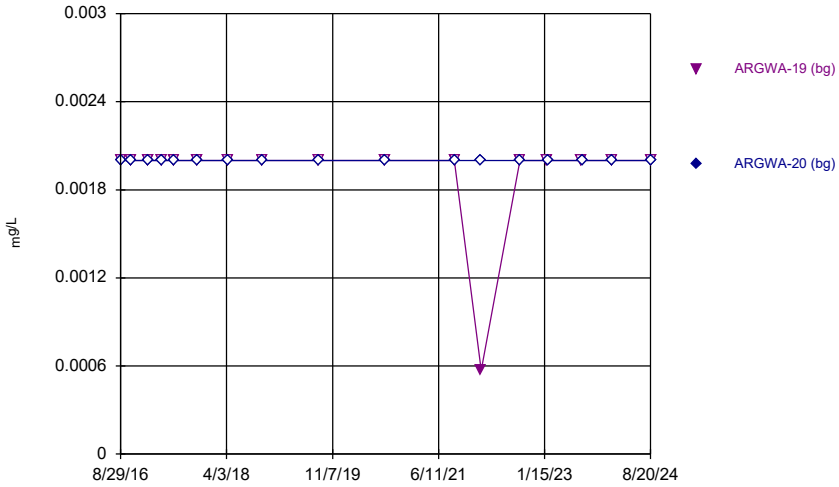
Time Series



Constituent: Silver Analysis Run 9/26/2024 11:59 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

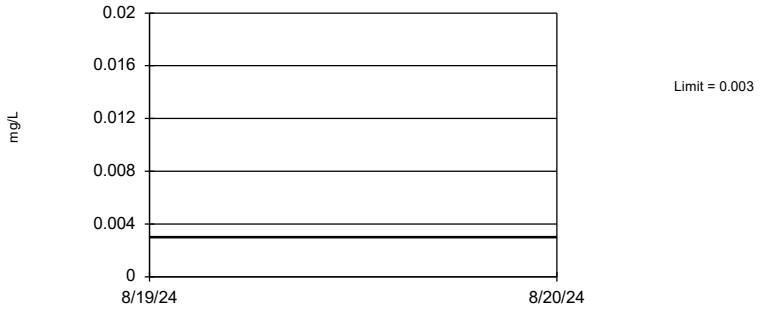
Time Series



Constituent: Thallium Analysis Run 9/26/2024 11:59 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 87.3% coverage at alpha=0.01; 91.6% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.1748.

Constituent: Antimony Analysis Run 9/26/2024 11:58 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

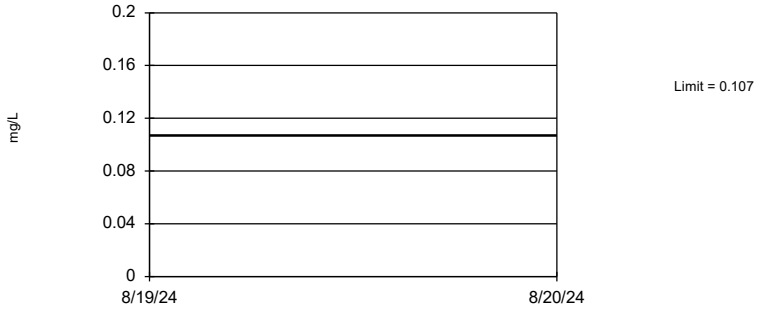
Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 72 background values. 87.5% NDs. 93.95% coverage at alpha=0.01; 95.9% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02489.

Constituent: Arsenic Analysis Run 9/26/2024 11:58 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric

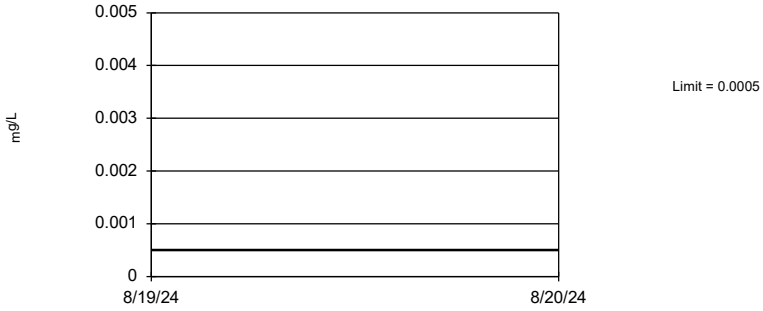


Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 72 background values. 93.95% coverage at alpha=0.01; 95.9% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02489.

Constituent: Barium Analysis Run 9/26/2024 11:58 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric

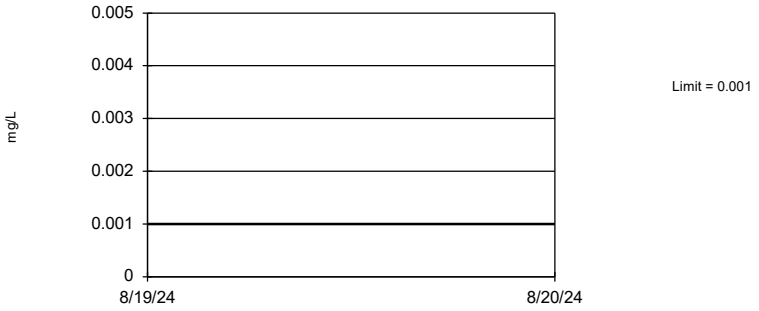


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 38 background values. 92.11% NDs. 88.48% coverage at alpha=0.01; 92.38% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1424.

Constituent: Beryllium Analysis Run 9/26/2024 11:58 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 70 background values. 98.57% NDs. 93.55% coverage at alpha=0.01; 95.9% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02758.

Constituent: Cadmium Analysis Run 9/26/2024 11:58 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

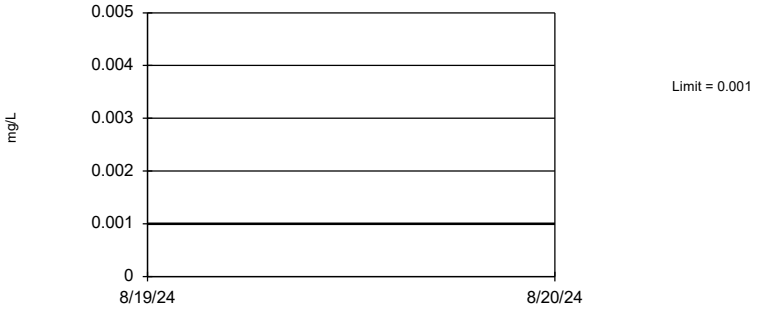
Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 42 background values. 26.19% NDs. 89.65% coverage at alpha=0.01; 93.16% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.116.

Constituent: Chromium Analysis Run 9/26/2024 11:58 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric

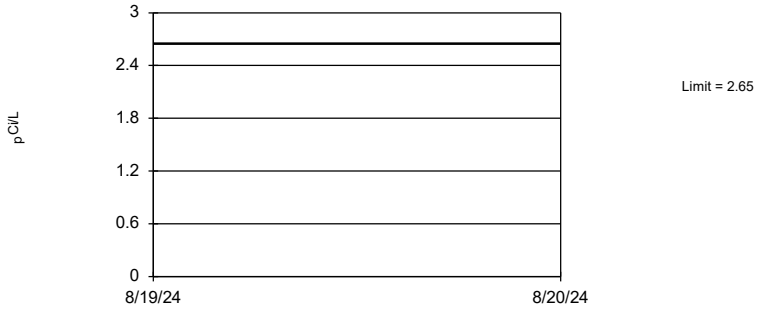


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 44 background values. 68.18% NDs. 90.04% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1047.

Constituent: Cobalt Analysis Run 9/26/2024 11:58 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric

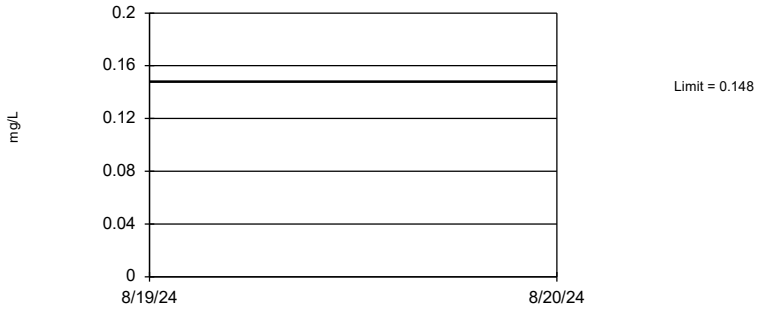


Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 42 background values. 2.381% NDs. 89.65% coverage at alpha=0.01; 93.16% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.116.

Constituent: Combined Radium 226 + 228 Analysis Run 9/26/2024 11:58 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric



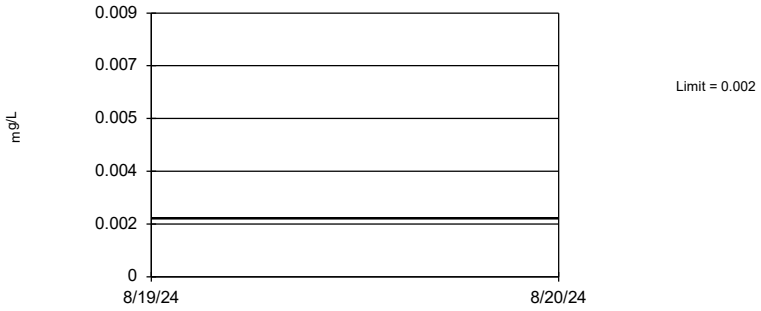
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 46 background values. 41.3% NDs. 90.43% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.09447.

Constituent: Fluoride Analysis Run 9/26/2024 11:58 AM View: Appendix IV - UTLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric



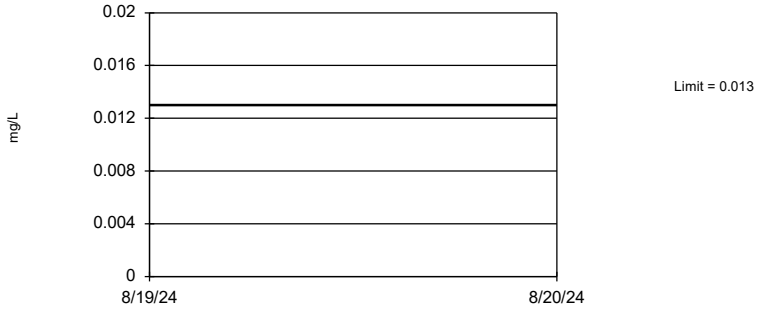
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 72 background values. 87.5% NDs. 93.95% coverage at alpha=0.01; 95.9% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02489.

Constituent: Lead Analysis Run 9/26/2024 11:58 AM View: Appendix IV - UTLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric



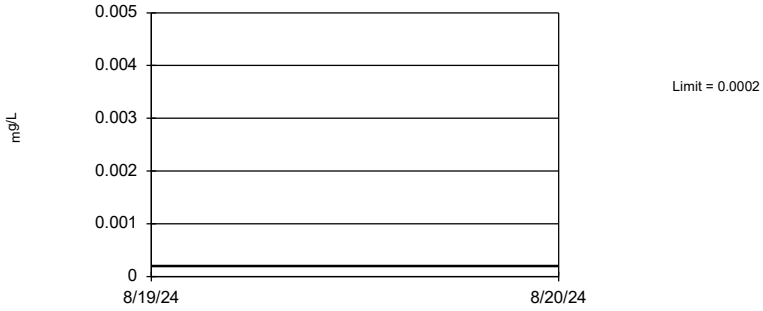
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. 43.18% NDs. 90.04% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1047.

Constituent: Lithium Analysis Run 9/26/2024 11:58 AM View: Appendix IV - UTLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric



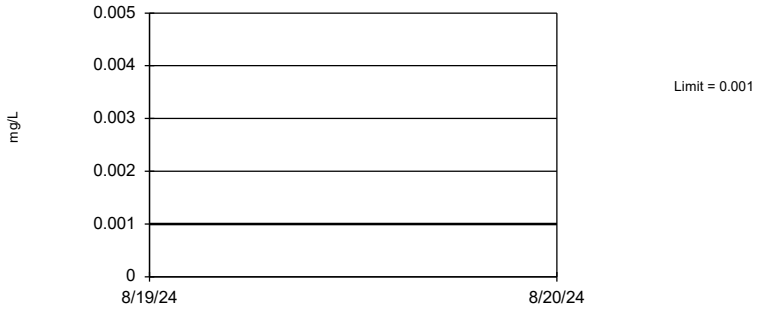
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 34 background values. 94.12% NDs. 87.3% coverage at alpha=0.01; 91.6% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.1748.

Constituent: Mercury Analysis Run 9/26/2024 11:58 AM View: Appendix IV - UTLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 40 background values. 82.5% NDs. 89.26% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1285.

Constituent: Molybdenum Analysis Run 9/26/2024 11:58 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

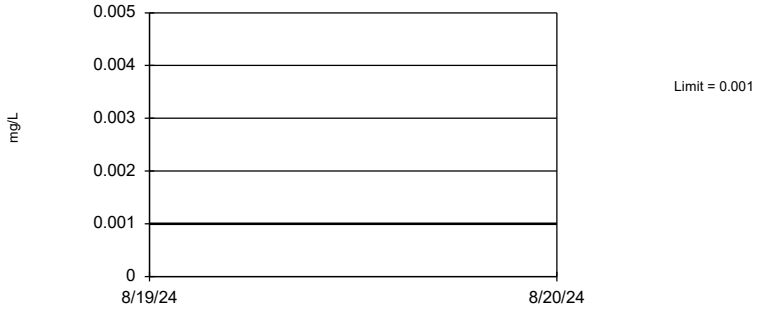
Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 71 background values. 67.61% NDs. 93.55% coverage at alpha=0.01; 95.9% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.0262.

Constituent: Selenium Analysis Run 9/26/2024 11:58 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric

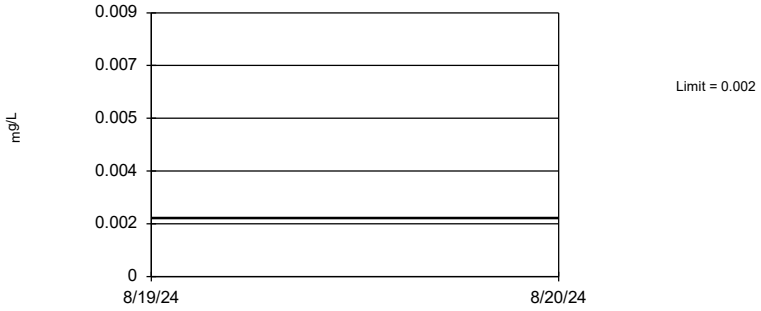


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 62 background values. 91.94% NDs. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04158.

Constituent: Silver Analysis Run 9/26/2024 11:58 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 34 background values. 97.06% NDs. 87.3% coverage at alpha=0.01; 91.6% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.1748.

Constituent: Thallium Analysis Run 9/26/2024 11:58 AM View: Appendix IV - UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

FIGURE H.

PLANT ARKWRIGHT AP #2 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		0.005	0.01
Barium, Total (mg/L)	2		0.11	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.001	0.006
Combined Radium, Total (pCi/L)	5		2.65	5
Fluoride, Total (mg/L)	4		0.15	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.013	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.001	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Silver, Total (mg/L)	n/a		0.001	0.001
Thallium, Total (mg/L)	0.002		0.002	0.002

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

**CCR = Coal Combustion Residuals*

FIGURE I.

Confidence Interval Summary Table - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/30/2024, 1:44 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	**ARAMW-7**	**0.07537**	**0.04752**	**0.006**	**Yes**	**9**	**0.05887**	**0.02163**	**0**	**None**	**x^3**	**0.01**	**Param.**
Lithium (mg/L)	**ARAMW-7**	**0.0779**	**0.0577**	**0.04**	**Yes**	**9**	**0.06306**	**0.006339**	**0**	**None**	**No**	**0.002**	**NP (normality)**
Lithium (mg/L)	**ARGWC-23**	**0.05532**	**0.04518**	**0.04**	**Yes**	**8**	**0.05025**	**0.00478**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	**ARAMW-8**	**0.2005**	**0.1024**	**0.1**	**Yes**	**9**	**0.1479**	**0.06261**	**0**	**None**	**x^2**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/30/2024, 1:44 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	ARAMW-8	0.003	0.00134	0.006	No	7	0.002763	0.0006274	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	ARAMW-9	0.001904	0.0007461	0.006	No	4	0.002163	0.0009892	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	ARAMW-1	0.005	0.005	0.01	No	10	0.004733	0.0008443	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	ARAMW-2	0.03334	0.004106	0.01	No	10	0.02008	0.02536	0	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	ARAMW-7	0.005	0.00035	0.01	No	8	0.003269	0.002007	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	ARAMW-8	0.005	0.00031	0.01	No	8	0.003479	0.002163	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	ARGWC-21	0.005	0.0019	0.01	No	23	0.003027	0.001674	39.13	None	No	0.01	NP (normality)
Arsenic (mg/L)	ARGWC-22	0.005	0.00221	0.01	No	18	0.004092	0.001787	77.78	None	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-23	0.005	0.00075	0.01	No	18	0.004248	0.001731	83.33	None	No	0.01	NP (NDs)
Barium (mg/L)	ARAMW-1	0.05151	0.04251	2	No	10	0.04701	0.005048	0	None	No	0.01	Param.
Barium (mg/L)	ARAMW-2	0.1083	0.06061	2	No	10	0.08467	0.02857	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	ARAMW-7	0.03217	0.02428	2	No	8	0.02818	0.004008	0	None	ln(x)	0.01	Param.
Barium (mg/L)	ARAMW-8	0.1173	0.0939	2	No	8	0.1056	0.01106	0	None	No	0.01	Param.
Barium (mg/L)	ARGWC-21	0.12	0.045	2	No	23	0.08066	0.03529	0	None	No	0.01	NP (normality)
Barium (mg/L)	ARGWC-22	0.04571	0.02815	2	No	18	0.0381	0.01609	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	ARGWC-23	0.1437	0.09733	2	No	18	0.1205	0.03829	0	None	No	0.01	Param.
Barium (mg/L)	ARAMW-9	0.02495	0.004949	2	No	4	0.01495	0.004405	0	None	No	0.01	Param.
Beryllium (mg/L)	ARAMW-7	0.0025	0.000236	0.004	No	8	0.001125	0.001139	37.5	None	No	0.004	NP (normality)
Beryllium (mg/L)	ARGWC-22	0.0005	0.00036	0.004	No	17	0.0004388	0.0001192	70.59	None	No	0.01	NP (NDs)
Beryllium (mg/L)	ARGWC-23	0.0005	0.00033	0.004	No	17	0.00049	0.00004123	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	ARGWC-21	0.01	0.0017	0.1	No	21	0.009605	0.001811	95.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	ARGWC-22	0.01	0.0048	0.1	No	18	0.009711	0.001226	94.44	None	No	0.01	NP (NDs)
Cobalt (mg/L)	ARAMW-1	0.0008499	0.0004085	0.006	No	11	0.0006354	0.0002714	9.091	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	ARAMW-2	0.002936	0.002064	0.006	No	11	0.0025	0.0005235	0	None	No	0.01	Param.
Cobalt (mg/L)	**ARAMW-7**	**0.07537**	**0.04752**	**0.006**	**Yes**	**9**	**0.05887**	**0.02163**	**0**	**None**	**x^3**	**0.01**	**Param.**
Cobalt (mg/L)	ARAMW-8	0.005031	0.002407	0.006	No	9	0.003719	0.001359	0	None	No	0.01	Param.
Cobalt (mg/L)	ARGWC-21	0.0018	0.0007	0.006	No	22	0.001279	0.0005844	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	ARGWC-22	0.00766	0.002677	0.006	No	19	0.005733	0.00496	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	ARGWC-23	0.001791	0.0007307	0.006	No	19	0.00153	0.001291	5.263	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-1	4.227	0.4887	5	No	10	2.418	2.732	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-2	5.492	2.154	5	No	10	3.879	2.411	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-7	5.122	3.943	5	No	8	4.533	0.5562	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-8	2.547	0.1616	5	No	8	1.275	1.233	12.5	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-21	1.349	0.608	5	No	21	1.219	1.204	4.762	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-22	1.169	0.4018	5	No	18	0.8644	0.7312	5.556	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-23	0.9762	0.1958	5	No	18	0.7036	0.8296	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-9	5.909	-0.8624	5	No	4	2.523	1.491	0	None	No	0.01	Param.
Fluoride (mg/L)	ARAMW-1	0.2184	0.1645	4	No	11	0.1915	0.03238	0	None	No	0.01	Param.
Fluoride (mg/L)	ARAMW-2	0.1417	0.08199	4	No	11	0.1118	0.0358	9.091	None	No	0.01	Param.
Fluoride (mg/L)	ARAMW-7	0.1031	0.03332	4	No	9	0.08711	0.03443	33.33	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	ARAMW-8	0.2498	0.1705	4	No	9	0.2101	0.04107	0	None	No	0.01	Param.
Fluoride (mg/L)	ARGWC-21	0.1557	0.09039	4	No	23	0.138	0.1027	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	ARGWC-22	0.134	0.045	4	No	19	0.08105	0.05799	15.79	None	No	0.01	NP (normality)
Fluoride (mg/L)	ARGWC-23	0.3682	0.2266	4	No	19	0.2974	0.1209	0	None	No	0.01	Param.
Fluoride (mg/L)	ARAMW-9	1.042	0.7759	4	No	4	0.9088	0.05851	0	None	No	0.01	Param.
Lead (mg/L)	ARAMW-7	0.002	0.00013	0.015	No	8	0.001766	0.0006611	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	ARGWC-21	0.002	0.00026	0.015	No	23	0.001844	0.0005174	91.3	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-22	0.002	0.00022	0.015	No	18	0.001798	0.0005887	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-23	0.002	0.00026	0.015	No	18	0.001802	0.0005758	88.89	None	No	0.01	NP (NDs)
Lithium (mg/L)	ARAMW-1	0.009982	0.008532	0.04	No	12	0.009236	0.0009998	0	None	x^2	0.01	Param.
Lithium (mg/L)	ARAMW-2	0.036	0.0172	0.04	No	12	0.0267	0.01943	0	None	No	0.01	NP (normality)
Lithium (mg/L)	**ARAMW-7**	**0.0779**	**0.0577**	**0.04**	**Yes**	**9**	**0.06306**	**0.006339**	**0**	**None**	**No**	**0.002**	**NP (normality)**
Lithium (mg/L)	ARAMW-8	0.006662	0.005466	0.04	No	9	0.00605	0.0007237	0	None	x^3	0.01	Param.
Lithium (mg/L)	ARGWC-21	0.01221	0.009968	0.04	No	22	0.01109	0.002084	0	None	No	0.01	Param.
Lithium (mg/L)	ARGWC-22	0.02372	0.01529	0.04	No	19	0.01951	0.007205	0	None	No	0.01	Param.

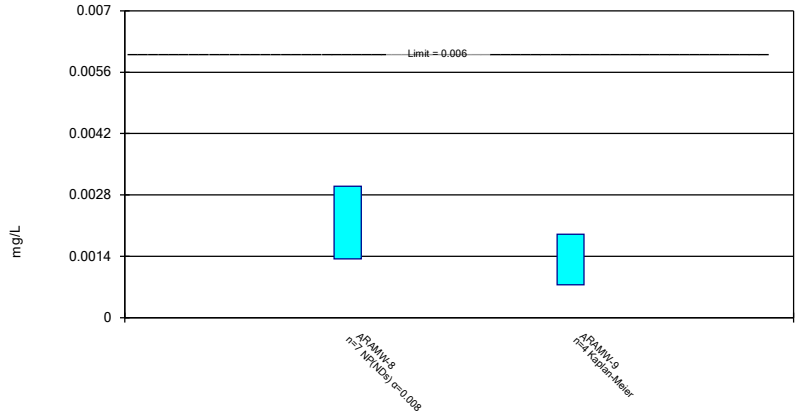
Confidence Interval Summary Table - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/30/2024, 1:44 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	**ARGWC-23**	**0.05532**	**0.04518**	**0.04**	**Yes**	**8**	**0.05025**	**0.00478**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	ARAMW-9	0.01179	0	0.04	No	4	0.007975	0.002264	0	None	x^2	0.01	Param.
Mercury (mg/L)	ARGWC-21	0.0002	0.000073	0.002	No	17	0.0001925	0.0000308	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	ARGWC-22	0.000372	0.0002	0.002	No	15	0.0002115	0.00004441	93.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	ARAMW-1	0.008455	0.005284	0.1	No	11	0.006869	0.001903	0	None	No	0.01	Param.
Molybdenum (mg/L)	ARAMW-2	0.015	0.000585	0.1	No	11	0.007281	0.007394	45.45	None	No	0.006	NP (normality)
Molybdenum (mg/L)	ARAMW-7	0.0012	0.000257	0.1	No	9	0.0008707	0.0003215	66.67	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	**ARAMW-8**	**0.2005**	**0.1024**	**0.1**	**Yes**	**9**	**0.1479**	**0.06261**	**0**	**None**	**x^2**	**0.01**	**Param.**
Molybdenum (mg/L)	ARGWC-22	0.015	0.000496	0.1	No	18	0.007859	0.007356	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	ARGWC-23	0.06445	0.04668	0.1	No	18	0.05339	0.0183	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	ARAMW-9	0.01998	0	0.1	No	4	0.008525	0.005046	0	None	No	0.01	Param.
Selenium (mg/L)	ARGWC-22	0.005	0.002	0.05	No	18	0.004833	0.0007071	94.44	None	No	0.01	NP (NDs)
Silver (mg/L)	ARGWC-21	0.001	0.00043	0.001	No	18	0.0009683	0.0001344	94.44	None	No	0.01	NP (NDs)
Thallium (mg/L)	ARGWC-22	0.002	0.00035	0.002	No	15	0.001583	0.0007244	73.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	ARGWC-23	0.002	0.00028	0.002	No	15	0.001653	0.0007177	80	None	No	0.01	NP (NDs)

Parametric and Non-Parametric (NP) Confidence Interval

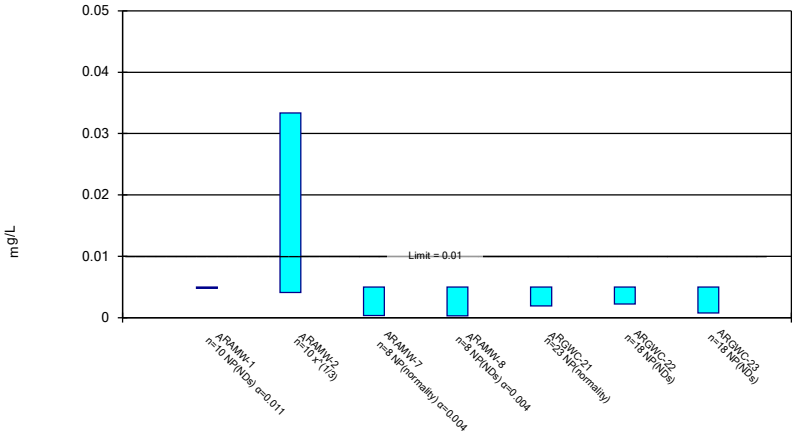
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Antimony Analysis Run 9/30/2024 1:42 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Parametric and Non-Parametric (NP) Confidence Interval

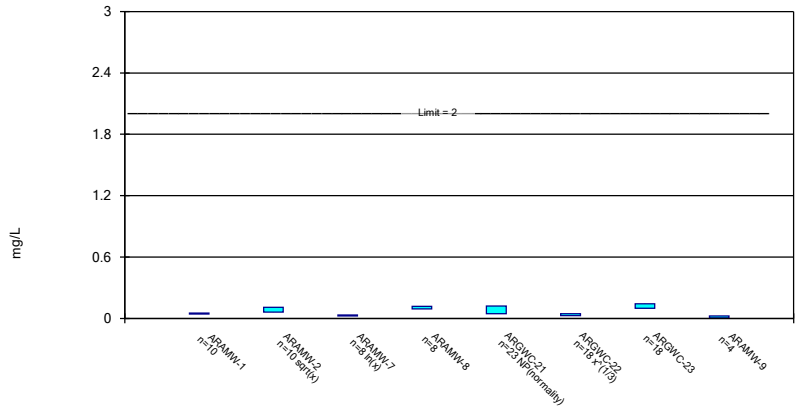
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 9/30/2024 1:42 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Parametric and Non-Parametric (NP) Confidence Interval

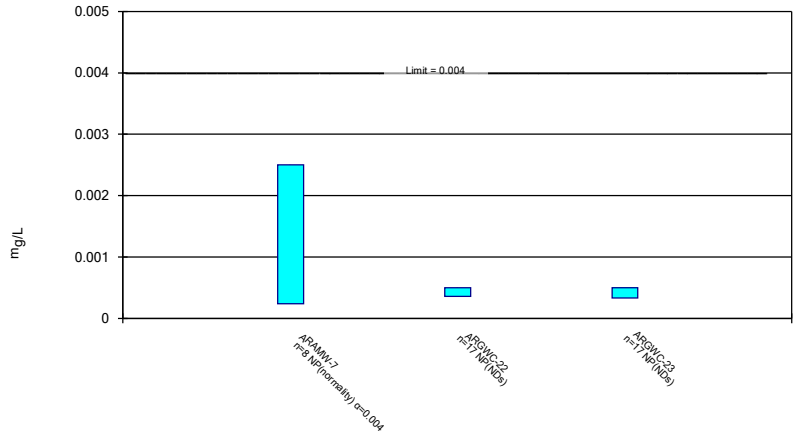
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 9/30/2024 1:42 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Non-Parametric Confidence Interval

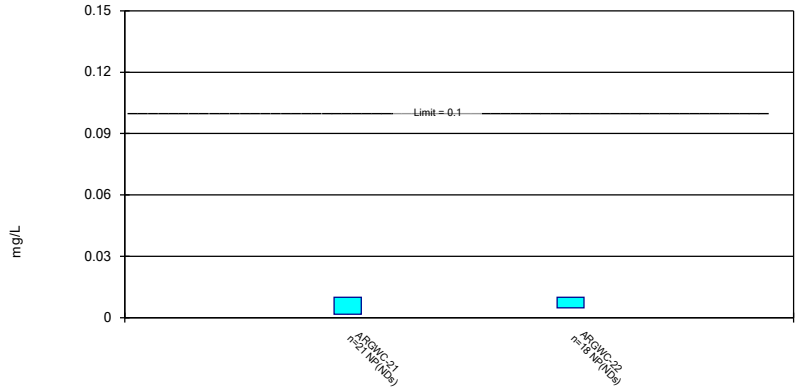
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Beryllium Analysis Run 9/30/2024 1:42 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Non-Parametric Confidence Interval

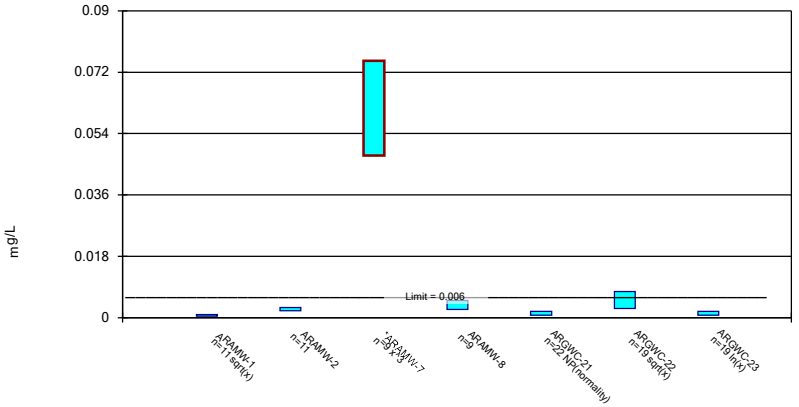
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 9/30/2024 1:42 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Parametric and Non-Parametric (NP) Confidence Interval

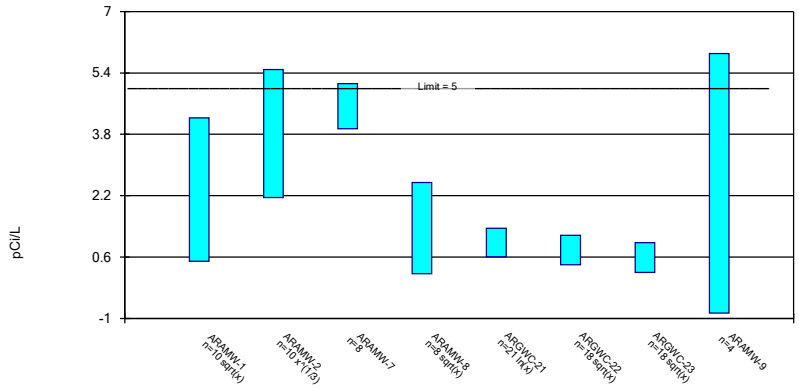
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 9/30/2024 1:42 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Parametric Confidence Interval

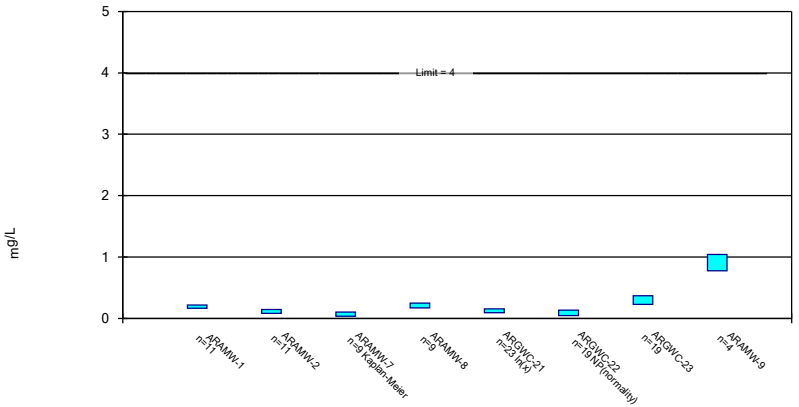
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 9/30/2024 1:42 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Parametric and Non-Parametric (NP) Confidence Interval

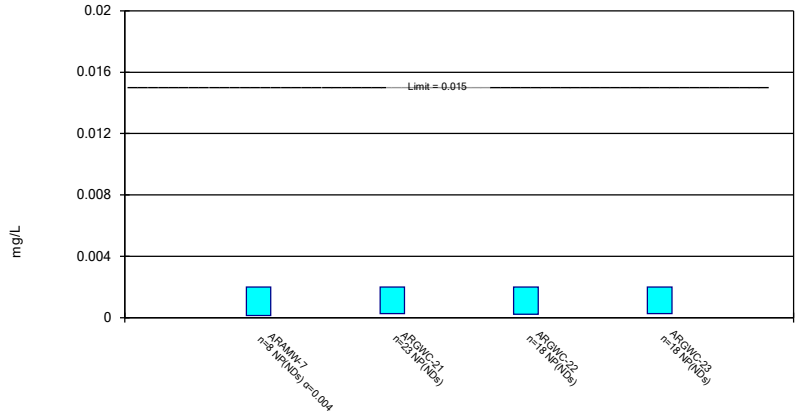
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 9/30/2024 1:42 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Non-Parametric Confidence Interval

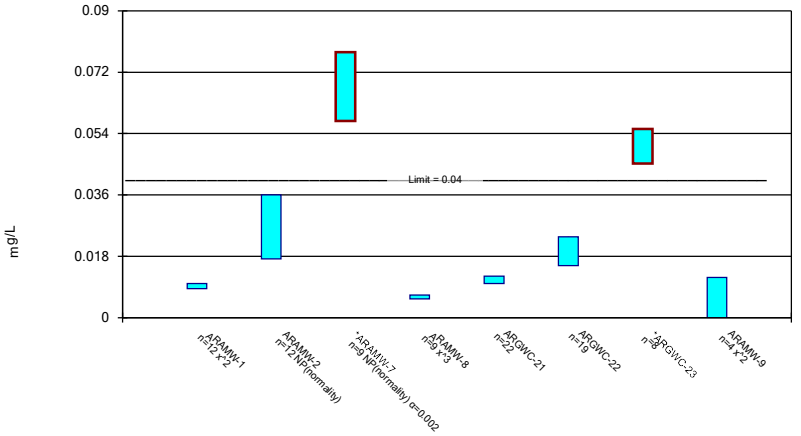
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 9/30/2024 1:42 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Parametric and Non-Parametric (NP) Confidence Interval

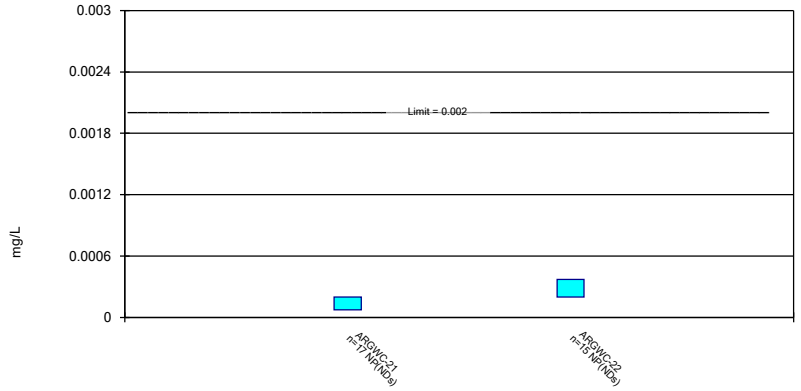
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 9/30/2024 1:42 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Non-Parametric Confidence Interval

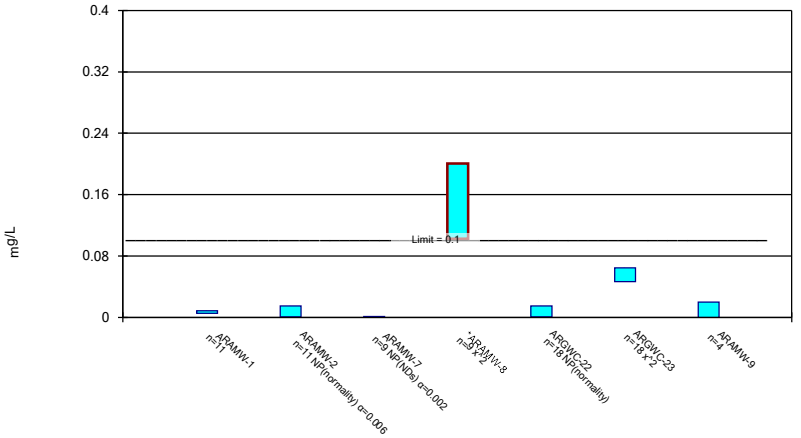
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 9/30/2024 1:43 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Parametric and Non-Parametric (NP) Confidence Interval

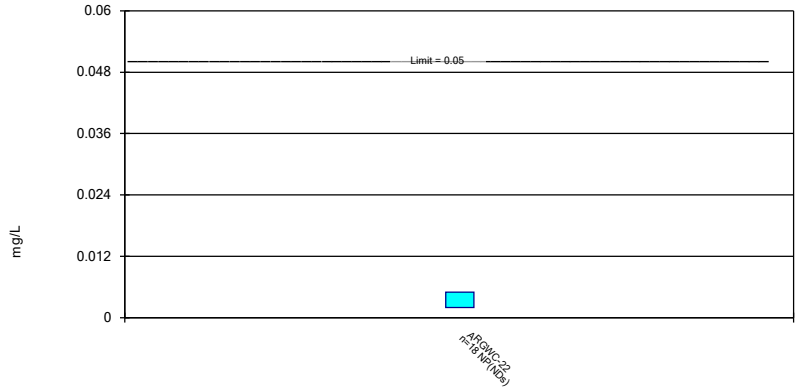
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 9/30/2024 1:43 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Non-Parametric Confidence Interval

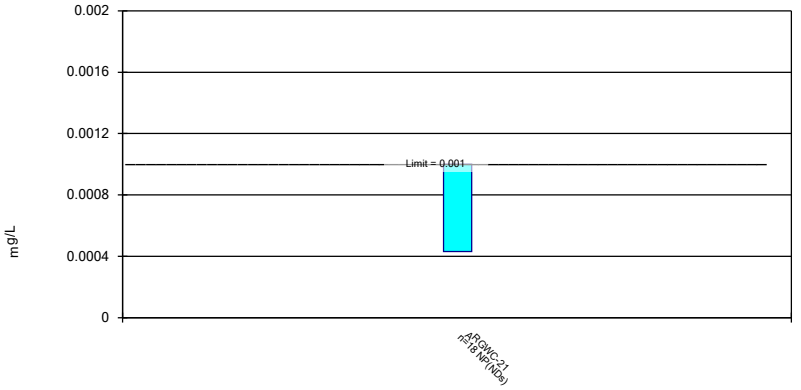
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 9/30/2024 1:43 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Non-Parametric Confidence Interval

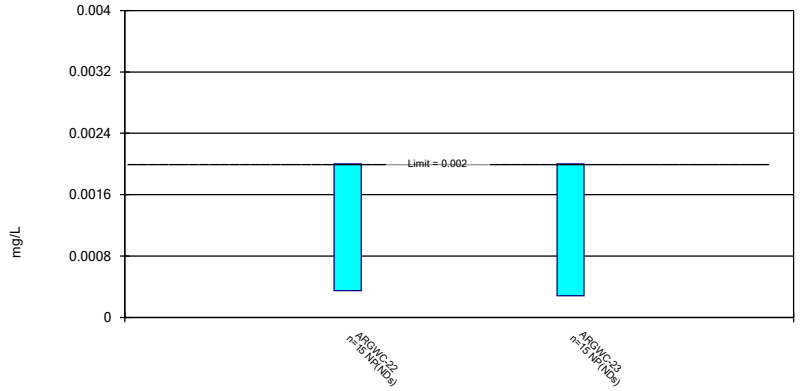
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Silver Analysis Run 9/30/2024 1:43 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 9/30/2024 1:43 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 9/30/2024 1:44 PM View: Confidence Intervals

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-8	ARAMW-9
9/9/2021	<0.003	
2/3/2022	<0.003	
9/2/2022	<0.003	
1/31/2023	<0.003	
2/1/2023		<0.003
8/8/2023		0.00158 (J)
8/9/2023	0.00134 (J)	
1/23/2024		0.00107 (J)
1/24/2024	<0.003	
8/20/2024	<0.003	<0.003
Mean	0.002763	0.002163
Std. Dev.	0.0006274	0.0009892
Upper Lim.	0.003	0.001904
Lower Lim.	0.00134	0.0007461

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 9/30/2024 1:44 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWC-21	ARGWC-22	ARGWC-23
6/23/2016					0.0011 (J)		
8/30/2016					0.002		
10/26/2016					0.0019 (J)		
1/25/2017					0.0017		
4/10/2017					0.002		
6/19/2017					0.0026		
10/24/2017					0.0021		
4/10/2018					0.0022		
10/16/2018					0.0021		
3/27/2019					0.0011 (J)		
8/20/2019					0.002		
10/8/2019					0.0012 (J)		
12/16/2019						0.00066 (J)	0.00075 (J)
1/14/2020						0.00038 (J)	0.00042 (J)
2/11/2020						0.0004 (J)	<0.005
3/9/2020						<0.005	<0.005
4/7/2020					0.00054 (J)	<0.005	<0.005
5/27/2020						<0.005	<0.005
7/15/2020						<0.005	<0.005
8/19/2020						<0.005	
8/20/2020	<0.005	0.084					<0.005
8/21/2020					<0.005		
9/22/2020						<0.005	<0.005
9/30/2020	<0.005					<0.005	
10/1/2020		0.0085			<0.005		<0.005
2/10/2021	<0.005				<0.005	<0.005	<0.005
2/11/2021		0.015	0.00075 (J)	0.00046 (J)			
9/8/2021					<0.005		
9/9/2021	<0.005			<0.005			<0.005
9/10/2021		0.044	<0.005			<0.005	
2/1/2022					<0.005		
2/2/2022			0.00035 (J)			<0.005	
2/3/2022	<0.005	0.0092		0.00031 (J)			0.0003 (J)
9/1/2022					0.00207 (J)		
9/2/2022	0.00233 (J)	0.0158		0.00206 (J)			
9/6/2022						<0.005	<0.005
9/7/2022			<0.005				
1/31/2023	<0.005	0.00363 (J)	0.00286 (J)	<0.005	<0.005	0.00221 (J)	<0.005
8/8/2023	<0.005	0.012	<0.005			<0.005	<0.005
8/9/2023				<0.005	<0.005		
1/23/2024			0.00219 (J)			<0.005	
1/24/2024	<0.005	0.0047 (J)		<0.005	<0.005		<0.005
8/20/2024	<0.005	0.00392 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
Mean	0.004733	0.02008	0.003269	0.003479	0.003027	0.004092	0.004248
Std. Dev.	0.0008443	0.02536	0.002007	0.002163	0.001674	0.001787	0.001731
Upper Lim.	0.005	0.03334	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.005	0.004106	0.00035	0.00031	0.0019	0.00221	0.00075

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 9/30/2024 1:44 PM View: Confidence Intervals

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
6/23/2016					0.13			
8/30/2016					0.11			
10/26/2016					0.122			
1/25/2017					0.12			
4/10/2017					0.11			
6/19/2017					0.13			
10/24/2017					0.12			
4/10/2018					0.12			
10/16/2018					0.1			
3/27/2019					0.091			
8/20/2019					0.1			
10/8/2019					0.096			
12/16/2019						0.076	0.096	
1/14/2020						0.071	0.075	
2/11/2020						0.046	0.046	
3/9/2020						0.039	0.14	
4/7/2020					0.05	0.04	0.16	
5/27/2020						0.054	0.18	
7/15/2020						0.043	0.16	
8/19/2020						0.046		
8/20/2020	0.055	0.14					0.16	
8/21/2020					0.054			
9/22/2020						0.038	0.16	
9/30/2020	0.052					0.033		
10/1/2020		0.075			0.051		0.17	
2/10/2021	0.046				0.044	0.032	0.13	
2/11/2021		0.09	0.037	0.092				
9/8/2021					0.045			
9/9/2021	0.051			0.094			0.12	
9/10/2021		0.13	0.029			0.026		
2/1/2022					0.045			
2/2/2022			0.029			0.025		
2/3/2022	0.046	0.078		0.096			0.1	
9/1/2022					0.0425			
9/2/2022	0.0445	0.0792		0.116				
9/6/2022						0.0226	0.0939	
9/7/2022			0.0263					
1/31/2023	0.0427	0.067	0.0243	0.11	0.0414	0.0237	0.0872	
2/1/2023								0.0158
8/8/2023	0.051	0.0753	0.0244			0.0255	0.0936	0.0207
8/9/2023				0.122	0.0474			
1/23/2024			0.0277			0.0227		0.0128
1/24/2024	0.043	0.0562		0.103	0.0427		0.0922	
8/20/2024	0.0389	0.056	0.0277	0.112	0.0431	0.0223	0.105	0.0105
Mean	0.04701	0.08467	0.02818	0.1056	0.08066	0.0381	0.1205	0.01495
Std. Dev.	0.005048	0.02857	0.004008	0.01106	0.03529	0.01609	0.03829	0.004405
Upper Lim.	0.05151	0.1083	0.03217	0.1173	0.12	0.04571	0.1437	0.02495
Lower Lim.	0.04251	0.06061	0.02428	0.0939	0.045	0.02815	0.09733	0.004949

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 9/30/2024 1:44 PM View: Confidence Intervals

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-7	ARGWC-22	ARGWC-23
12/16/2019		0.0005 (J)	0.00033 (J)
1/14/2020		0.00036 (J)	<0.0005
2/11/2020		0.00023	<0.0005
3/9/2020		0.00019	<0.0005
5/27/2020		0.00018 (J)	<0.0005
7/15/2020		<0.0005	<0.0005
8/19/2020		<0.0005	
8/20/2020			<0.0005
9/22/2020		<0.0005	<0.0005
9/30/2020		<0.0005	
10/1/2020			<0.0005
2/10/2021		<0.0005	<0.0005
2/11/2021	<0.0025		
9/9/2021			<0.0005
9/10/2021	<0.0025	<0.0005	
2/2/2022	<0.0025	<0.0005	
2/3/2022			<0.0005
9/6/2022		<0.0005	<0.0005
9/7/2022	0.000236 (J)		
1/31/2023	0.000296 (J)	<0.0005	<0.0005
8/8/2023	0.000272 (J)	<0.0005	<0.0005
1/23/2024	0.000378 (J)	<0.0005	
1/24/2024			<0.0005
8/20/2024	0.000318 (J)	<0.0005	<0.0005
Mean	0.001125	0.0004388	0.00049
Std. Dev.	0.001139	0.0001192	4.123E-05
Upper Lim.	0.0025	0.0005	0.0005
Lower Lim.	0.000236	0.00036	0.00033

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 9/30/2024 1:44 PM View: Confidence Intervals

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-21	ARGWC-22
8/30/2016	<0.01	
10/26/2016	<0.01	
1/25/2017	<0.01	
4/10/2017	<0.01	
6/19/2017	<0.01	
10/24/2017	<0.01	
4/10/2018	<0.01	
10/16/2018	<0.01	
8/20/2019	0.0017 (J)	
10/8/2019	<0.01	
12/16/2019		<0.01
1/14/2020		<0.01
2/11/2020		0.0048
3/9/2020		<0.01
4/7/2020	<0.01	<0.01
5/27/2020		<0.01
7/15/2020		<0.01
8/19/2020		<0.01
8/21/2020	<0.01	
9/22/2020		<0.01
9/30/2020		<0.01
10/1/2020	<0.01	
2/10/2021	<0.01	<0.01
9/8/2021	<0.01	
9/10/2021		<0.01
2/1/2022	<0.01	
2/2/2022		<0.01
9/1/2022	<0.01	
9/6/2022		<0.01
1/31/2023	<0.01	<0.01
8/8/2023		<0.01
8/9/2023	<0.01	
1/23/2024		<0.01
1/24/2024	<0.01	
8/20/2024	<0.01	<0.01
Mean	0.009605	0.009711
Std. Dev.	0.001811	0.001226
Upper Lim.	0.01	0.01
Lower Lim.	0.0017	0.0048

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 9/30/2024 1:44 PM View: Confidence Intervals

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWC-21	ARGWC-22	ARGWC-23
8/30/2016					0.0018 (J)		
10/26/2016					0.0018 (J)		
1/25/2017					0.0017 (J)		
4/10/2017					0.0016 (J)		
6/19/2017					0.0021 (J)		
10/24/2017					0.0019 (J)		
4/10/2018					0.0019 (J)		
10/16/2018					0.0019 (J)		
8/20/2019					0.0023		
10/8/2019					0.0018		
12/16/2019						0.018	0.0023
1/14/2020						0.0072	0.0031
2/11/2020						0.013	0.00056
3/9/2020						0.015	0.00061 (J)
4/7/2020					0.00087	0.009	0.0016
5/27/2020						0.0059	0.0017 (J)
6/24/2020	0.00097 (J)	0.0027				0.0047	
6/25/2020					0.00097 (J)		0.0014 (J)
7/15/2020						0.0027	0.0017 (J)
8/19/2020						0.0032	
8/20/2020	0.001 (J)	0.0022 (J)					0.0023 (J)
8/21/2020					0.00066 (J)		
9/22/2020						0.0085	0.0036
9/30/2020	0.001 (J)					0.0055	
10/1/2020		0.0036			0.00082 (J)		0.0052
11/30/2020			0.028				
12/1/2020				0.0054			
2/10/2021	0.00082 (J)				0.00063 (J)	0.0015 (J)	0.00072 (J)
2/11/2021		0.0028	0.017	0.0061			
9/8/2021					0.0007 (J)		
9/9/2021	0.00072 (J)			0.0046			0.0009 (J)
9/10/2021		0.0022 (J)	0.075			0.0015 (J)	
2/1/2022					0.0007 (J)		
2/2/2022			0.077			0.001 (J)	
2/3/2022	0.00045 (J)	0.0028		0.0028			0.00063 (J)
9/1/2022					0.00069 (J)		
9/2/2022	0.000449 (J)	0.002		0.00292			
9/6/2022						0.00198	0.000588 (J)
9/7/2022			0.0737				
1/31/2023	0.000399 (J)	0.00282	0.0687	0.00321	0.000659 (J)	0.00154	0.000742 (J)
8/8/2023	0.00035 (J)	0.00223	0.0605			0.00184	0.00044 (J)
8/9/2023				0.00364	0.000813 (J)		
1/23/2024			0.0597			0.00408	
1/24/2024	0.000331 (J)	0.00249		0.00203	0.00106		<0.001
8/20/2024	<0.001	0.00166	0.0702	0.00277	0.000769 (J)	0.00279	0.000484 (J)
Mean	0.0006354	0.0025	0.05887	0.003719	0.001279	0.005733	0.00153
Std. Dev.	0.0002714	0.0005235	0.02163	0.001359	0.0005844	0.00496	0.001291
Upper Lim.	0.0008499	0.002936	0.07537	0.005031	0.0018	0.00766	0.001791
Lower Lim.	0.0004085	0.002064	0.04752	0.002407	0.0007	0.002677	0.0007307

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 9/30/2024 1:44 PM View: Confidence Intervals

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
8/30/2016					0.832			
10/26/2016					1.27			
1/25/2017					0.549			
4/10/2017					0.556			
6/19/2017					0.976			
10/24/2017					0.504			
4/10/2018					0.621			
10/16/2018					0.796			
8/20/2019					0.978			
10/8/2019					0.588			
12/16/2019						0.229 (U)	0.166 (U)	
1/14/2020						0.783	0.869	
2/11/2020						0.229 (U)	0.0291 (U)	
3/9/2020						0.365	0.626	
4/7/2020					0.433 (U)	0.567	0.296 (U)	
5/27/2020						0.143 (U)	0.192 (U)	
7/15/2020						0.97	0.279 (U)	
8/19/2020						0.587 (U)		
8/20/2020	0.527	4.13					0.242 (U)	
8/21/2020					0.472			
9/22/2020						0.884	0.0177 (U)	
9/30/2020	0.249 (U)					0.602		
10/1/2020		2.86			0.496 (U)		0.749	
2/10/2021	0.949				0.625	0.233 (U)	0.0408 (U)	
2/11/2021		2.09	5.1	0.285 (U)				
9/8/2021					1.12			
9/9/2021	0.972			0.16 (U)			0.498	
9/10/2021		3.4	4.23			0.713		
2/1/2022					0.331 (U)			
2/2/2022			4.48			0.195 (U)		
2/3/2022	1.04	2.69		0.51			0.248 (U)	
9/1/2022					1.57			
9/2/2022	3.41	4.18		1.89				
9/6/2022						2.58	2.36	
9/7/2022			4.29					
1/31/2023	4.1	4.3	5.21	3.2	3.25	2.2	0.859 (U)	
2/1/2023								0.413 (U)
8/8/2023	1.16 (U)	1.86	4.83			1.22 (U)	0.363 (U)	3.92
8/9/2023				0.193 (U)	2.69			
1/23/2024			4.65			2.1		2.96
1/24/2024	9.3	10.3		2.87	5.34		2.73	
8/20/2024	2.47	2.98	3.47	<2.19 (D)	<3.22	<1.92	2.1	2.8
Mean	2.418	3.879	4.533	1.275	1.219	0.8644	0.7036	2.523
Std. Dev.	2.732	2.411	0.5562	1.233	1.204	0.7312	0.8296	1.491
Upper Lim.	4.227	5.492	5.122	2.547	1.349	1.169	0.9762	5.909
Lower Lim.	0.4887	2.154	3.943	0.1616	0.608	0.4018	0.1958	-0.8624

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 9/30/2024 1:44 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
8/30/2016					0.099 (J)			
10/26/2016					0.57			
1/25/2017					0.12 (J)			
4/10/2017					0.11 (J)			
6/19/2017					0.11 (J)			
10/24/2017					0.1 (J)			
4/10/2018					0.094 (J)			
10/16/2018					0.17 (J)			
3/27/2019					0.05 (J)			
8/20/2019					0.098 (J)			
10/8/2019					0.065 (J)			
12/16/2019						0.026 (J)	0.18 (J)	
1/14/2020						<0.2	0.21	
2/11/2020						0.056	0.13	
3/9/2020						0.064 (J)	0.089 (J)	
4/7/2020					0.12	0.068 (J)	0.18	
5/27/2020						0.06 (J)	0.25	
6/24/2020	0.21	0.11				0.048 (J)		
6/25/2020					0.041 (J)		0.25	
7/15/2020						0.04 (J)	0.28	
8/19/2020						<0.2		
8/20/2020	0.23	<0.1					0.19	
8/21/2020					0.084 (J)			
9/22/2020						0.049 (J)	0.33	
9/30/2020	0.2					0.045 (J)		
10/1/2020		0.098 (J)			0.098 (J)		0.32	
11/30/2020			0.044 (J)					
12/1/2020				0.14				
2/10/2021	0.21				0.14	0.055 (J)	0.41	
2/11/2021		0.12	0.054 (J)	0.24				
9/8/2021					0.16			
9/9/2021	0.21			0.19			0.48	
9/10/2021		0.13	0.032 (J)			0.035 (J)		
2/1/2022					0.11			
2/2/2022			<0.1			0.04 (J)		
2/3/2022	0.16	0.095 (J)		0.17			0.4	
9/1/2022					0.161			
9/2/2022	0.18	0.146		0.206				
9/6/2022						0.056 (J)	0.362	
9/7/2022			<0.1					
1/31/2023	0.22 (J)	0.13 (J)	0.11 (J)	0.263 (J)	0.175 (J)	0.0979 (J)	0.551 (J)	
2/1/2023								0.938
8/8/2023	0.118	0.0571 (J)	<0.1			<0.2	0.283	0.837
8/9/2023				0.261	0.203			
1/23/2024			0.126			0.134		0.971
1/24/2024	0.199	0.171		0.222	0.173		0.391	
8/20/2024	0.169	0.123	0.118 (J)	0.199	0.124	0.066 (J)	0.365	0.889
Mean	0.1915	0.1118	0.08711	0.2101	0.138	0.08105	0.2974	0.9088
Std. Dev.	0.03238	0.0358	0.03443	0.04107	0.1027	0.05799	0.1209	0.05851
Upper Lim.	0.2184	0.1417	0.1031	0.2498	0.1557	0.134	0.3682	1.042
Lower Lim.	0.1645	0.08199	0.03332	0.1705	0.09039	0.045	0.2266	0.7759

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 9/30/2024 1:44 PM View: Confidence Intervals

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-7	ARGWC-21	ARGWC-22	ARGWC-23
6/23/2016		<0.002		
8/30/2016		<0.002		
10/26/2016		<0.002		
1/25/2017		<0.002		
4/10/2017		<0.002		
6/19/2017		<0.002		
10/24/2017		<0.002		
4/10/2018		<0.002		
10/16/2018		<0.002		
3/27/2019		<0.002		
8/20/2019		<0.002		
10/8/2019		0.00015 (J)		
12/16/2019			<0.002	<0.002
1/14/2020			0.00022 (J)	0.00018 (J)
2/11/2020			<0.002	0.00026 (J)
3/9/2020			<0.002	<0.002
4/7/2020		0.00026 (J)	0.00014 (J)	<0.002
5/27/2020			<0.002	<0.002
7/15/2020			<0.002	<0.002
8/19/2020			<0.002	
8/20/2020				<0.002
8/21/2020		<0.002		
9/22/2020			<0.002	<0.002
9/30/2020			<0.002	
10/1/2020		<0.002		<0.002
2/10/2021		<0.002	<0.002	<0.002
2/11/2021	0.00013 (J)			
9/8/2021		<0.002		
9/9/2021				<0.002
9/10/2021	<0.002		<0.002	
2/1/2022		<0.002		
2/2/2022	<0.002		<0.002	
2/3/2022				<0.002
9/1/2022		<0.002		
9/6/2022			<0.002	<0.002
9/7/2022	<0.002			
1/31/2023	<0.002	<0.002	<0.002	<0.002
8/8/2023	<0.002		<0.002	<0.002
8/9/2023		<0.002		
1/23/2024	<0.002		<0.002	
1/24/2024		<0.002		<0.002
8/20/2024	<0.002	<0.002	<0.002	<0.002
Mean	0.001766	0.001844	0.001798	0.001802
Std. Dev.	0.0006611	0.0005174	0.0005887	0.0005758
Upper Lim.	0.002	0.002	0.002	0.002
Lower Lim.	0.00013	0.00026	0.00022	0.00026

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 9/30/2024 1:44 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWC-21	ARGWC-22	ARGWC-23	ARAMW-9
8/30/2016					0.0092			
10/26/2016					0.0071 (J)			
1/25/2017					0.0087			
4/10/2017					0.0074			
6/19/2017					0.0079			
10/24/2017					0.0097			
4/10/2018					0.012			
10/16/2018					0.01			
8/20/2019					0.0098			
10/8/2019					0.015			
12/16/2019						0.027	0.02	
1/14/2020	0.009	0.086				0.034	0.022	
2/11/2020						0.01	0.0078	
3/9/2020						0.0071	0.013	
4/7/2020					0.011	0.012	0.032	
5/27/2020						0.017	0.037	
6/24/2020	0.0084	0.018				0.023		
6/25/2020					0.013		0.043	
7/15/2020						0.021	0.042	
8/19/2020						0.026		
8/20/2020	0.0066	0.036					0.036	
8/21/2020					0.013			
9/22/2020						0.014	0.039	
9/30/2020	0.0091					0.014		
10/1/2020		0.019			0.012		0.04	
11/30/2020			0.061					
12/1/2020				0.0044 (J)				
2/10/2021	0.0097				0.012	0.022	0.044	
2/11/2021		0.021	0.061	0.0055				
9/8/2021					0.012			
9/9/2021	0.0095			0.0062			0.045	
9/10/2021		0.025	0.06			0.021		
2/1/2022					0.012			
2/2/2022			0.06			0.02		
2/3/2022	0.0099	0.021		0.0063			0.052	
9/1/2022					0.0116			
9/2/2022	0.0097 (J)	0.0232		0.00654 (J)				
9/6/2022						0.0136	0.0578	
9/7/2022			0.0634					
1/31/2023	0.0099 (J)	0.0202	0.068	0.00659 (J)	0.0124	0.0284	0.0499	
2/1/2023								0.00463 (J)
8/8/2023	0.00909 (J)	0.0193	0.0577			0.028	0.0517	0.00907 (J)
8/9/2023				0.00637 (J)	0.0131			
1/23/2024			0.0779			0.0125		0.00862 (J)
1/24/2024	0.0106	0.0172		0.00669 (J)	0.0131		0.0547	
8/20/2024	0.00934 (J)	0.0145	0.0585	0.00586 (J)	0.0119	0.02	0.0469	0.00958 (J)
Mean	0.009236	0.0267	0.06306	0.00605	0.01109	0.01951	0.05025	0.007975
Std. Dev.	0.0009998	0.01943	0.006339	0.0007237	0.002084	0.007205	0.00478	0.002264
Upper Lim.	0.009982	0.036	0.0779	0.006662	0.01221	0.02372	0.05532	0.01179
Lower Lim.	0.008532	0.0172	0.0577	0.005466	0.009968	0.01529	0.04518	0

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 9/30/2024 1:44 PM View: Confidence Intervals
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-21	ARGWC-22
8/30/2016	<0.0002	
10/26/2016	<0.0002	
1/25/2017	7.3E-05 (J)	
4/10/2017	<0.0002	
6/19/2017	<0.0002	
10/24/2017	<0.0002	
4/10/2018	<0.0002	
10/16/2018	<0.0002	
8/20/2019	<0.0002	
12/16/2019		<0.0002
1/14/2020		<0.0002
2/11/2020		<0.0002
3/9/2020		<0.0002
5/27/2020		<0.0002
7/15/2020		<0.0002
8/19/2020		<0.0002
8/21/2020	<0.0002	
9/22/2020		<0.0002
9/8/2021	<0.0002	
9/10/2021		<0.0002
2/1/2022	<0.0002	
2/2/2022		<0.0002
9/1/2022	<0.0002	
9/6/2022		<0.0002
1/31/2023	<0.0002	<0.0002
8/8/2023		<0.0002
8/9/2023	<0.0002	
1/23/2024		0.000372
1/24/2024	<0.0002	
8/20/2024	<0.0002	<0.0002
Mean	0.0001925	0.0002115
Std. Dev.	3.08E-05	4.441E-05
Upper Lim.	0.0002	0.000372
Lower Lim.	7.3E-05	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 9/30/2024 1:44 PM View: Confidence Intervals

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARGWC-22	ARGWC-23	ARAMW-9
12/16/2019					0.0018 (J)	0.025	
1/14/2020					0.0012 (J)	0.032	
2/11/2020					0.00093	0.021	
3/9/2020					0.00067	0.013 (J)	
5/27/2020					<0.015	0.048	
6/24/2020	0.0051 (J)	<0.015			<0.015		
6/25/2020						0.055	
7/15/2020					<0.015	0.055	
8/19/2020					<0.015		
8/20/2020	0.0076 (J)	0.0013 (J)				0.061	
9/22/2020					<0.015	0.053	
9/30/2020	0.0054 (J)				<0.015		
10/1/2020		<0.015				0.064	
11/30/2020			0.0012 (J)				
12/1/2020				0.056			
2/10/2021	0.0043 (J)				<0.015	0.063	
2/11/2021		<0.015	<0.001	0.038			
9/9/2021	0.0059 (J)			0.12		0.071	
9/10/2021		<0.015	<0.001		<0.015		
2/2/2022			<0.001		<0.015		
2/3/2022	0.0049 (J)	<0.015		0.16		0.065	
9/2/2022	0.00785	0.000603 (J)		0.175			
9/6/2022					0.000203 (J)	0.067	
9/7/2022			0.000379 (J)				
1/31/2023	0.00974	0.000491 (J)	<0.001	0.188	0.000496 (J)	0.0671	
2/1/2023							0.014
8/8/2023	0.00667	0.0011	<0.001		0.000514 (J)	0.0618	0.0109
8/9/2023				0.203			
1/23/2024			<0.001		0.00025 (J)		0.00683
1/24/2024	0.00937	0.00101		0.196		0.0651	
8/20/2024	0.00873	0.000585 (J)	0.000257 (J)	0.195	0.000406 (J)	0.074	0.00237
Mean	0.006869	0.007281	0.0008707	0.1479	0.007859	0.05339	0.008525
Std. Dev.	0.001903	0.007394	0.0003215	0.06261	0.007356	0.0183	0.005046
Upper Lim.	0.008455	0.015	0.0012	0.2005	0.015	0.06445	0.01998
Lower Lim.	0.005284	0.000585	0.000257	0.1024	0.000496	0.04668	0

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 9/30/2024 1:44 PM View: Confidence Intervals

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-22
12/16/2019	<0.005
1/14/2020	<0.005
2/11/2020	<0.005
3/9/2020	<0.005
4/7/2020	<0.005
5/27/2020	<0.005
7/15/2020	<0.005
8/19/2020	<0.005
9/22/2020	<0.005
9/30/2020	<0.005
2/10/2021	<0.005
9/10/2021	0.002 (J)
2/2/2022	<0.005
9/6/2022	<0.005
1/31/2023	<0.005
8/8/2023	<0.005
1/23/2024	<0.005
8/20/2024	<0.005
Mean	0.004833
Std. Dev.	0.0007071
Upper Lim.	0.005
Lower Lim.	0.002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Silver (mg/L) Analysis Run 9/30/2024 1:44 PM View: Confidence Intervals

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-21
6/23/2016	<0.001
10/26/2016	<0.001
4/10/2017	<0.001
10/24/2017	<0.001
4/10/2018	<0.001
10/16/2018	<0.001
3/27/2019	<0.001
10/8/2019	0.00043 (J)
4/7/2020	<0.001
10/1/2020	<0.001
2/10/2021	<0.001
9/8/2021	<0.001
2/1/2022	<0.001
9/1/2022	<0.001
1/31/2023	<0.001
8/9/2023	<0.001
1/24/2024	<0.001
8/20/2024	<0.001
Mean	0.0009683
Std. Dev.	0.0001344
Upper Lim.	0.001
Lower Lim.	0.00043

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 9/30/2024 1:44 PM View: Confidence Intervals

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-22	ARGWC-23
12/16/2019	0.00078 (J)	<0.002
1/14/2020	0.00027 (J)	<0.002
2/11/2020	0.00034	0.00028 (J)
3/9/2020	0.00035 (J)	0.00026 (J)
5/27/2020	<0.002	0.00026 (J)
7/15/2020	<0.002	<0.002
8/19/2020	<0.002	
8/20/2020		<0.002
9/22/2020	<0.002	<0.002
9/9/2021		<0.002
9/10/2021	<0.002	
2/2/2022	<0.002	
2/3/2022		<0.002
9/6/2022	<0.002	<0.002
1/31/2023	<0.002	<0.002
8/8/2023	<0.002	<0.002
1/23/2024	<0.002	
1/24/2024		<0.002
8/20/2024	<0.002	<0.002
Mean	0.001583	0.001653
Std. Dev.	0.0007244	0.0007177
Upper Lim.	0.002	0.002
Lower Lim.	0.00035	0.00028

ND substitution: RL or RL/2 if <15% NDs.

FIGURE J.

Appendix IV Trend Tests - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/27/2024, 3:13 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Lithium (mg/L)	**ARGWC-23**	**0.008693**	**127**	**58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	**ARAMW-8**	**0.03468**	**28**	**20**	**Yes**	**9**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	**ARGWA-19 (bg)**	**-0.00008875**	**-92**	**-62**	**Yes**	**20**	**65**	**n/a**	**n/a**	**0.05**	**NP**

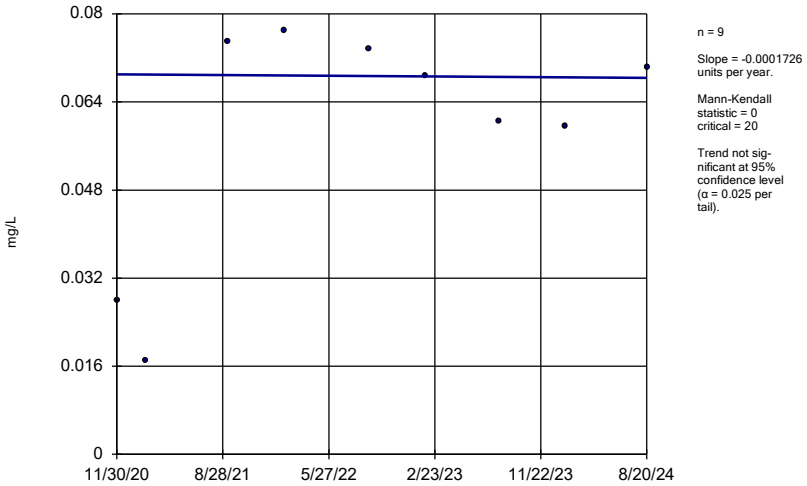
Appendix IV Trend Tests - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 9/27/2024, 3:13 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	ARAMW-7	-0.0001726	0	20	No	9	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARGWA-19 (bg)	0	5	71	No	22	81.82	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARGWA-20 (bg)	0	-22	-71	No	22	54.55	n/a	n/a	0.05	NP
Lithium (mg/L)	ARAMW-7	0	0	20	No	9	0	n/a	n/a	0.05	NP
Lithium (mg/L)	ARGWA-19 (bg)	-0.0001902	-68	-71	No	22	4.545	n/a	n/a	0.05	NP
Lithium (mg/L)	ARGWA-20 (bg)	0	6	71	No	22	81.82	n/a	n/a	0.05	NP
Lithium (mg/L)	**ARGWC-23**	**0.008693**	**127**	**58**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	**ARAMW-8**	**0.03468**	**28**	**20**	**Yes**	**9**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	**ARGWA-19 (bg)**	**-0.00008875**	**-92**	**-62**	**Yes**	**20**	**65**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	ARGWA-20 (bg)	0	0	62	No	20	100	n/a	n/a	0.05	NP

Sen's Slope Estimator

ARAMW-7



n = 9

Slope = -0.0001726 units per year.

Mann-Kendall statistic = 0
critical = 20

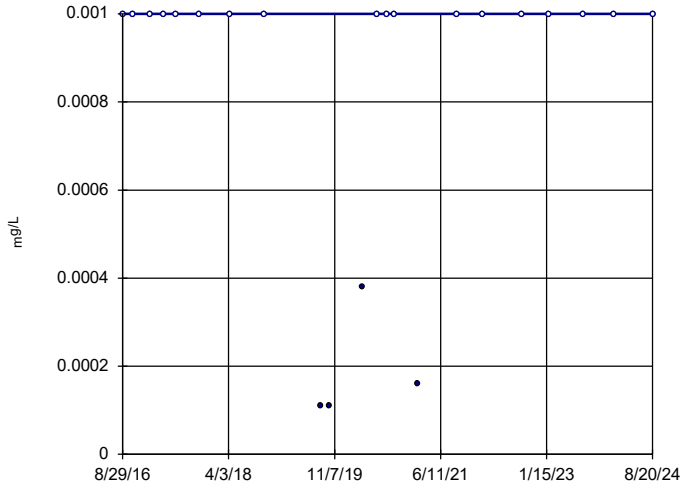
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 9/27/2024 3:12 PM View: Trend Tests - App IV
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-19 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 5
critical = 71

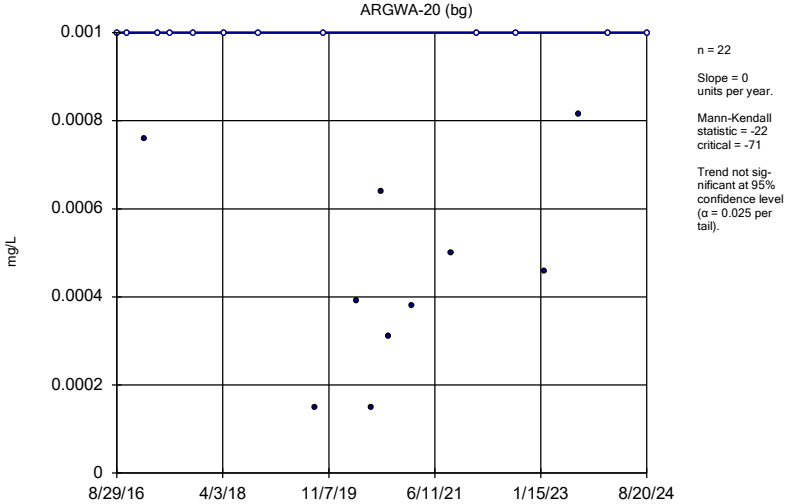
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 9/27/2024 3:12 PM View: Trend Tests - App IV
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-20 (bg)



n = 22

Slope = 0 units per year.

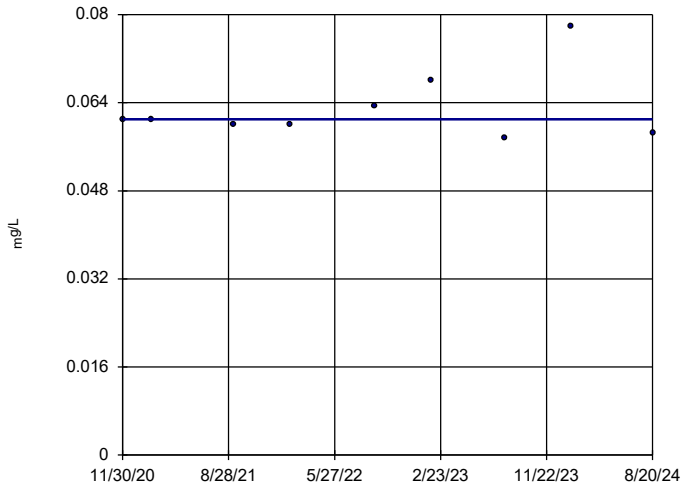
Mann-Kendall statistic = -22
critical = -71

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 9/27/2024 3:12 PM View: Trend Tests - App IV
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARAMW-7



n = 9

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 20

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 9/27/2024 3:12 PM View: Trend Tests - App IV
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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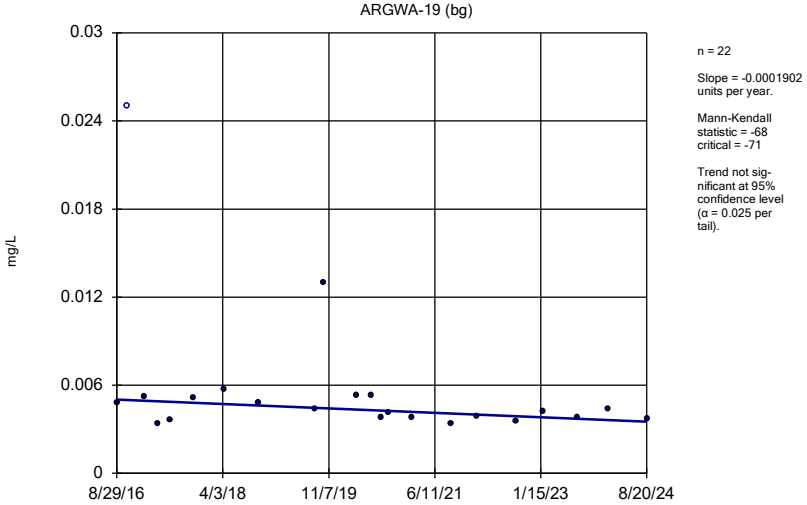
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-19 (bg)



n = 22

Slope = -0.0001902 units per year.

Mann-Kendall statistic = -68
critical = -71

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 9/27/2024 3:12 PM View: Trend Tests - App IV
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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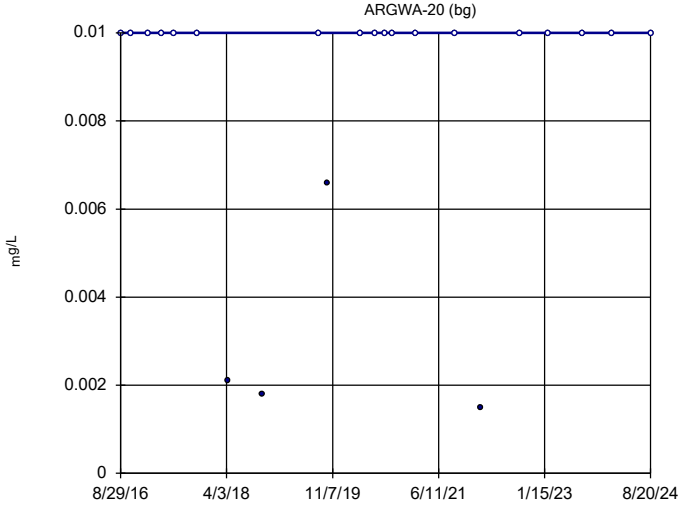
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-20 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 6
critical = 71

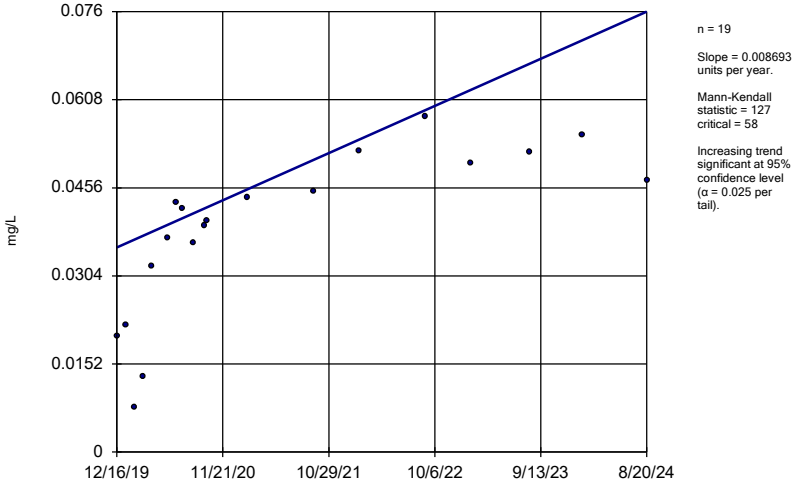
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 9/27/2024 3:12 PM View: Trend Tests - App IV
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

ARGWC-23



n = 19

Slope = 0.008693 units per year.

Mann-Kendall statistic = 127
critical = 58

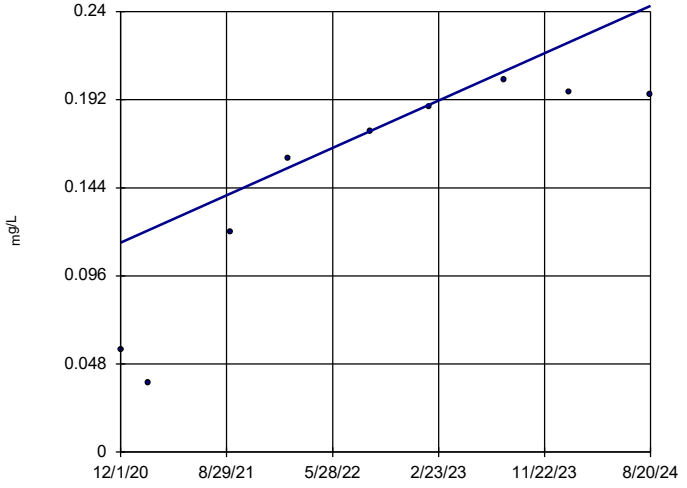
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 9/27/2024 3:12 PM View: Trend Tests - App IV
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

ARAMW-8



n = 9

Slope = 0.03468 units per year.

Mann-Kendall statistic = 28
critical = 20

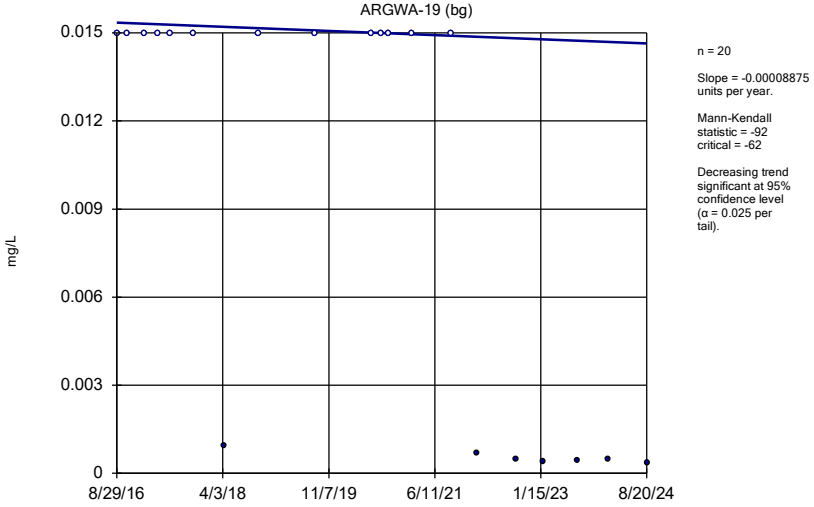
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 9/27/2024 3:12 PM View: Trend Tests - App IV
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-19 (bg)



n = 20

Slope = -0.00008875 units per year.

Mann-Kendall statistic = -92
critical = -62

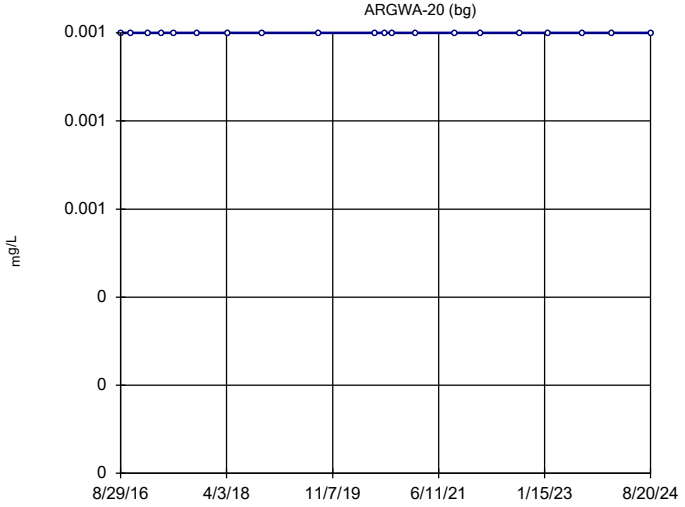
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 9/27/2024 3:12 PM View: Trend Tests - App IV
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.20 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-20 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 62

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 9/27/2024 3:12 PM View: Trend Tests - App IV
Plant Arkwright Client: Southern Company Data: Arkwright No 2

GROUNDWATER STATS CONSULTING

July 31, 2025

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Arkwright Ash Pond 2/Dry Ash Stockpile
February 2025 Semi-Annual Sample Event

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2025 Semi-Annual Groundwater Monitoring Detection and Assessment statistical analysis of monitoring data for Georgia Power Company's Plant Arkwright Ash Pond 2/Dry Ash Stockpile. The analysis complies with the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Semi-annual sampling is conducted for USEPA's Coal Combustion Residuals (CCR) Appendix III and IV parameters, in addition to Appendix I parameters, in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** ARGWA-19 and ARGWA-20
- **Downgradient wells:** ARGWC-21, ARGWC-22, and ARGWC-23
- **Assessment wells:** ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, and ARAMW-9

Assessment wells ARAMW-1 and ARAMW-2 were installed in 2019; wells ARAMW-7 and ARAMW-8 were installed in 2020; and well ARAMW-9 was installed in 2022 and first sampled in January 2023. All Assessment wells have a minimum of 4 samples and are, therefore, evaluated using confidence intervals for Appendix I and IV constituents.

Assessment wells do not require statistical analyses for Appendix I and III Detection monitoring constituents.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager for Groundwater Stats Consulting. In 2024, Georgia Power Company completed a data audit and migration of all CCR related groundwater data to the EarthSoft EQuIS Database Management Program (EQuIS). Data were then exported from EQuIS to Groundwater Stats Consulting (GSC) for use in completing this statistical analysis. Georgia Power Company contracted an independent third-party consultant, Environmental Resources Management (ERM), to support the data audit and migration to EQuIS. Based on the results of the audit and statistical analysis results from GSC, EQuIS will now be used by Georgia Power Company and its third-party geologists and engineers for management of data imported by independent third-party laboratories and data exported by Georgia Power Company and its Consultants. The data will be used in preparation of report submittals, modeling, strategic planning, and other purposes appropriate and consistent with EQuIS's data management and reporting tools and capabilities.

The CCR program consists of the following constituents:

- **Georgia EPD Appendix I:** arsenic, barium, cadmium, lead, selenium, and silver
- **CCR Appendix III:** boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)
- **CCR Appendix IV:** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Downgradient well data for Appendix I constituents were analyzed using interwell prediction limits and confidence intervals; downgradient well data for Appendix III constituents were analyzed using interwell prediction limits; and downgradient well data for Appendix IV constituents were analyzed using confidence intervals. Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. Summaries of well/constituent pairs containing 100% non-detects for Appendix I Detection monitoring constituents at downgradient wells and for Appendix I and IV Assessment monitoring constituents at downgradient and assessment wells follow this letter. For all constituents, a substitution of the most recent reporting limit is used for non-detect data.

Time series plots for all well/constituent pairs are provided and are particularly useful for screening parameters detected in downgradient wells which require statistical analyses

(Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Based on the previous screening described below, 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 are recommended. Power curves were previously provided to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division 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. Power curves were based on the following:

Georgia EPD Appendix I Constituents:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan (all parameters)
- # Constituents: 5 (cadmium is 100% non-detect in downgradient wells)
- # Downgradient wells: 3

CCR Appendix III Constituents:

- Semi-Annual Sampling
- Interwell Prediction Limits with 1-of-2 resample plan (all parameters)
- # Constituents: 7
- # Downgradient wells: 3

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 parametric limits is based on an annual 10% (5% per semi-annual event) as recommend 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, the earlier portion of data may require deselection prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening – Conducted in 2019

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 wells ARGWA-19, ARGWA-20, and ARGWC-21 for Appendix I, 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. While Tukey's test did not identify outliers for selenium at ARGWA-19, ARGWA-20, and ARGWC-21, these wells initially had a higher reported measurement than all remaining measurements; therefore, these values were flagged so that the interwell prediction limits will be lower and capable of detecting future changes at these wells. Outliers were flagged among downgradient wells, though there

are no intrawell statistical analyses in the current report. This improves the estimate of average concentrations in downgradient wells evaluated using confidence intervals. As noted below, current values that could result in exceedances were not flagged.

When the most recent values are identified as outliers in upgradient wells, those values are typically not flagged in the database (except in cases where they would cause background limits to be elevated) as they may represent a possible trend in an upgradient well. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers. Due to changing reporting limits, when non-detects are replaced with the most recent reporting limit, flagged "J" values (or estimated values) in the earlier part of the record may be flagged as outliers if the measurements are much higher than current reporting limits.

Additionally, when any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. A summary of flagged values is included in Figure C.

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 may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at wells ARGWA-19, ARGWA-20, and ARGWC-21 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 results of the trend analyses were included with the previous screenings and showed a few statistically significant trends, both increasing and decreasing. No adjustments to the background period were made because the overall changes were relatively small. Since intrawell tests are not used in this current analysis, the background levels are not affected by trends in downgradient wells.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified significant differences among upgradient well data for several constituents. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix I and Appendix III constituents in accordance with Georgia EPD requirements.

Prediction Limit Analysis of Appendix I & III Parameters – February 2025

All Appendix I and III parameters are analyzed using interwell prediction limits. Upgradient well data were reassessed for potential outliers during this analysis using visual screening. No additional values were flagged and previously flagged values were confirmed. A summary of flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through February 2025 for Appendix I and III constituents (Figures D & E, respectively). As mentioned above, downgradient wells containing 100% non-detects did not require statistical analyses. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February 2025 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no exceedance is noted, and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Summary tables and graphical results for the interwell prediction limits for Appendix I and III constituents limits follow this letter. The following exceedances were identified for Appendix I and Appendix III well/constituent pairs:

Appendix I

- Barium: ARGWC-23

Appendix III

- Boron: ARGWC-21, ARGWC-22, and ARGWC-23
- Calcium: ARGWC-21, ARGWC-22, and ARGWC-23
- Fluoride: ARGWC-23
- pH (upper limit): ARGWC-23
- Sulfate: ARGWC-21, ARGWC-22, and ARGWC-23
- TDS: ARGWC-21, ARGWC-22, and ARGWC-23

Trend Tests – Appendix I & III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable for Appendix I and III well/constituent pairs (Figures F and G, respectively). 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. Upgradient trends are an indication of variability in groundwater quality unrelated to practices at the site. Both a summary and graphical display of the trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Appendix I

Increasing

- Barium: ARGWA-20 (upgradient)

Decreasing

- Barium: ARGWA-19 (upgradient)

Appendix III

Increasing

- Boron: ARGWC-21
- Calcium: ARGWA-20 (upgradient), ARGWC-21, and ARGWC-23
- Fluoride: ARGWC-23
- Sulfate: ARGWC-21
- TDS: ARGWC-21

Decreasing

- Sulfate: ARGWA-19 (upgradient)
- TDS: ARGWA-19 (upgradient) and ARGWC-22

Confidence Interval Analysis of Appendix I & IV Parameters – February 2025

For Appendix I and IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Downgradient well/constituent pairs containing 100% non-detects do not require analysis. Data from upgradient wells for Appendix I and IV parameters are reassessed for outliers during each analysis. No additional values were flagged and previously flagged values were confirmed. A summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2025 for Appendix I and IV constituents (Figure H). Parametric tolerance limits are used 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, nonparametric 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 I and IV constituents for this sample event (Figure I).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed when a minimum of 8 samples for downgradient wells and a minimum of 4 samples for assessment wells was available using data since 2016 for each of the Appendix I and IV constituents in accordance with the state requirements in each downgradient well. The Sanitas software was used to calculate the confidence intervals, either parametric or nonparametric, depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the 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 samples available.

Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. In the event of a confidence interval

exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Note that due to a statistically significant increasing trend for lithium at downgradient well ARGWC-23, only more recent concentrations above the GWPS for this well/constituent pair were used to construct a confidence interval on stable, non-trending data (USEPA Unified Guidance, 2009, Chapter 7). Trend tests using both the full and truncated record for lithium at downgradient well ARGWC-23 follow this letter (Figure J).

A summary of the confidence intervals follows this letter (Figure K). Confidence interval exceedances were identified for the following well/constituent pairs:

- Cobalt: ARAMW-7
- Lithium: ARAMW-7 and ARGWC-23
- Molybdenum: ARAMW-8

Trend Test Evaluation – Appendix I and IV

Assessment monitoring well/constituent pairs identified with confidence interval exceedances (which evaluate the average concentration of a group of measurements) are further evaluated using the Sen's Slope/Mann-Kendall trend test using 95% confidence (Figure L). 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. The following statistically significant trend was identified:

Increasing

- Lithium: ARGWC-23
- Molybdenum: ARAMW-8

Decreasing

- Molybdenum: ARGWA-19 (upgradient)

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Arkwright Ash Pond 2/Dry Ash Stockpile. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Easton Rayner
Groundwater Analyst

Andrew Collins
Project Manager

Table of Contents

Summary Tables

Date Ranges

Date: 5/21/2025 8:00 AM

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Lithium (mg/L)

ARGWC-23 overall:2/10/2021-2/4/2025

100% Non-Detects: Appendix I Interwell Downgradient

Analysis Run 5/21/2025 7:20 AM View: Appendix I - Interwell PLs (100% NDs)
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Cadmium (mg/L)
ARGWC-21, ARGWC-23, ARGWC-22

Selenium (mg/L)
ARGWC-21, ARGWC-23

Silver (mg/L)
ARGWC-23, ARGWC-22

100% Non-Detects: Appendix I & IV Downgradient & Assessment

Analysis Run 5/22/2025 7:00 AM View: Appendix I & IV - Confidence Intervals (100% NDs)
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Antimony (mg/L)
ARGWC-21, ARGWC-23, ARGWC-22, ARAMW-1, ARAMW-2, ARAMW-7

Beryllium (mg/L)
ARGWC-21, ARAMW-1, ARAMW-2, ARAMW-8, ARAMW-9

Cadmium (mg/L)
ARGWC-21, ARGWC-23, ARGWC-22, ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, ARAMW-9

Chromium (mg/L)
ARGWC-23, ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, ARAMW-9

Cobalt (mg/L)
ARAMW-9

Lead (mg/L)
ARAMW-1, ARAMW-2, ARAMW-8, ARAMW-9

Mercury (mg/L)
ARGWC-23, ARAMW-1, ARAMW-2, ARAMW-8, ARAMW-9

Molybdenum (mg/L)
ARGWC-21

Selenium (mg/L)
ARGWC-21, ARGWC-23, ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, ARAMW-9

Silver (mg/L)
ARGWC-23, ARGWC-22, ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, ARAMW-9

Thallium (mg/L)
ARGWC-21, ARAMW-1, ARAMW-2, ARAMW-7, ARAMW-8, ARAMW-9

Appendix I - Interwell Prediction Limits - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/21/2025, 7:24 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	**ARGWC-23**	**0.107**	**n/a**	**2/4/2025**	**0.118**	**Yes**	**76**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0003357**	**NP Inter (normality) 1 of 2**

Appendix I - Interwell Prediction Limits - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/21/2025, 7:24 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	ARGWC-21	0.005	n/a	2/4/2025	0.005ND	No	76	n/a	n/a	88.16	n/a	n/a	0.0003357	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-23	0.005	n/a	2/4/2025	0.005ND	No	76	n/a	n/a	88.16	n/a	n/a	0.0003357	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-22	0.005	n/a	2/4/2025	0.005ND	No	76	n/a	n/a	88.16	n/a	n/a	0.0003357	NP Inter (NDs) 1 of 2
Barium (mg/L)	ARGWC-21	0.107	n/a	2/4/2025	0.0492	No	76	n/a	n/a	0	n/a	n/a	0.0003357	NP Inter (normality) 1 of 2
Barium (mg/L)	**ARGWC-23**	**0.107**	**n/a**	**2/4/2025**	**0.118**	**Yes**	**76**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0003357**	**NP Inter (normality) 1 of 2**
Barium (mg/L)	ARGWC-22	0.107	n/a	2/4/2025	0.0282	No	76	n/a	n/a	0	n/a	n/a	0.0003357	NP Inter (normality) 1 of 2
Lead (mg/L)	ARGWC-21	0.002	n/a	2/4/2025	0.002ND	No	76	n/a	n/a	88.16	n/a	n/a	0.0003357	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-23	0.002	n/a	2/4/2025	0.002ND	No	76	n/a	n/a	88.16	n/a	n/a	0.0003357	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-22	0.002	n/a	2/4/2025	0.002ND	No	76	n/a	n/a	88.16	n/a	n/a	0.0003357	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-22	0.005	n/a	2/4/2025	0.005ND	No	75	n/a	n/a	69.33	n/a	n/a	0.0003447	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-21	0.001	n/a	2/4/2025	0.001ND	No	66	n/a	n/a	92.42	n/a	n/a	0.0004437	NP Inter (NDs) 1 of 2

Appendix III - Interwell Prediction Limits - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/21/2025, 7:27 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	ARGWC-21	0.092	n/a	2/4/2025	1.31	Yes	44	n/a	n/a	25	n/a	n/a	0.0009861	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-23	0.092	n/a	2/4/2025	0.485	Yes	44	n/a	n/a	25	n/a	n/a	0.0009861	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-22	0.092	n/a	2/4/2025	3.1	Yes	44	n/a	n/a	25	n/a	n/a	0.0009861	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-21	13.74	n/a	2/4/2025	85.1	Yes	44	3.213	0.2842	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Calcium (mg/L)	ARGWC-23	13.74	n/a	2/4/2025	75.2	Yes	44	3.213	0.2842	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Calcium (mg/L)	ARGWC-22	13.74	n/a	2/4/2025	187	Yes	44	3.213	0.2842	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Fluoride (mg/L)	ARGWC-23	0.148	n/a	2/4/2025	0.286	Yes	48	n/a	n/a	39.58	n/a	n/a	0.0008268	NP Inter (normality) 1 of 2
pH, Field (SU)	ARGWC-23	6.078	5.416	2/4/2025	6.42	Yes	49	5.747	0.1913	0	None	No	0.001253	Param Inter 1 of 2
Sulfate (mg/L)	ARGWC-21	21	n/a	2/4/2025	216	Yes	71	n/a	n/a	0	n/a	n/a	0.0003804	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-23	21	n/a	2/4/2025	77.6	Yes	71	n/a	n/a	0	n/a	n/a	0.0003804	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-22	21	n/a	2/4/2025	656	Yes	71	n/a	n/a	0	n/a	n/a	0.0003804	NP Inter (normality) 1 of 2
TDS (mg/L)	ARGWC-21	140.3	n/a	2/4/2025	534	Yes	42	104.1	20.78	0	None	No	0.002505	Param Inter 1 of 2
TDS (mg/L)	ARGWC-23	140.3	n/a	2/4/2025	320	Yes	42	104.1	20.78	0	None	No	0.002505	Param Inter 1 of 2
TDS (mg/L)	ARGWC-22	140.3	n/a	2/4/2025	1140	Yes	42	104.1	20.78	0	None	No	0.002505	Param Inter 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/21/2025, 7:27 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**ARGWC-21**	**0.092**	**n/a**	**2/4/2025**	**1.31**	**Yes**	**44**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0009861**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**ARGWC-23**	**0.092**	**n/a**	**2/4/2025**	**0.485**	**Yes**	**44**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0009861**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**ARGWC-22**	**0.092**	**n/a**	**2/4/2025**	**3.1**	**Yes**	**44**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0009861**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**ARGWC-21**	**13.74**	**n/a**	**2/4/2025**	**85.1**	**Yes**	**44**	**3.213**	**0.2842**	**0**	**None**	**sqrt(x)**	**0.002505**	**Param Inter 1 of 2**
Calcium (mg/L)	**ARGWC-23**	**13.74**	**n/a**	**2/4/2025**	**75.2**	**Yes**	**44**	**3.213**	**0.2842**	**0**	**None**	**sqrt(x)**	**0.002505**	**Param Inter 1 of 2**
Calcium (mg/L)	**ARGWC-22**	**13.74**	**n/a**	**2/4/2025**	**187**	**Yes**	**44**	**3.213**	**0.2842**	**0**	**None**	**sqrt(x)**	**0.002505**	**Param Inter 1 of 2**
Chloride (mg/L)	ARGWC-21	16.2	n/a	2/4/2025	3.29	No	72	n/a	n/a	0	n/a	n/a	0.0003715	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-23	16.2	n/a	2/4/2025	3.55	No	72	n/a	n/a	0	n/a	n/a	0.0003715	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-22	16.2	n/a	2/4/2025	6.87	No	72	n/a	n/a	0	n/a	n/a	0.0003715	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-21	0.148	n/a	2/4/2025	0.131	No	48	n/a	n/a	39.58	n/a	n/a	0.0008268	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**ARGWC-23**	**0.148**	**n/a**	**2/4/2025**	**0.286**	**Yes**	**48**	**n/a**	**n/a**	**39.58**	**n/a**	**n/a**	**0.0008268**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	ARGWC-22	0.148	n/a	2/4/2025	0.28J	No	48	n/a	n/a	39.58	n/a	n/a	0.0008268	NP Inter (normality) 1 of 2
pH, Field (SU)	ARGWC-21	6.078	5.416	2/4/2025	6.02	No	49	5.747	0.1913	0	None	No	0.001253	Param Inter 1 of 2
pH, Field (SU)	**ARGWC-23**	**6.078**	**5.416**	**2/4/2025**	**6.42**	**Yes**	**49**	**5.747**	**0.1913**	**0**	**None**	**No**	**0.001253**	**Param Inter 1 of 2**
pH, Field (SU)	ARGWC-22	6.078	5.416	2/4/2025	5.73	No	49	5.747	0.1913	0	None	No	0.001253	Param Inter 1 of 2
Sulfate (mg/L)	**ARGWC-21**	**21**	**n/a**	**2/4/2025**	**216**	**Yes**	**71**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0003804**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**ARGWC-23**	**21**	**n/a**	**2/4/2025**	**77.6**	**Yes**	**71**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0003804**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**ARGWC-22**	**21**	**n/a**	**2/4/2025**	**656**	**Yes**	**71**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0003804**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**ARGWC-21**	**140.3**	**n/a**	**2/4/2025**	**534**	**Yes**	**42**	**104.1**	**20.78**	**0**	**None**	**No**	**0.002505**	**Param Inter 1 of 2**
TDS (mg/L)	**ARGWC-23**	**140.3**	**n/a**	**2/4/2025**	**320**	**Yes**	**42**	**104.1**	**20.78**	**0**	**None**	**No**	**0.002505**	**Param Inter 1 of 2**
TDS (mg/L)	**ARGWC-22**	**140.3**	**n/a**	**2/4/2025**	**1140**	**Yes**	**42**	**104.1**	**20.78**	**0**	**None**	**No**	**0.002505**	**Param Inter 1 of 2**

Appendix I - Trend Tests - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/21/2025, 7:44 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	**ARGWA-19 (bg)**	**-0.001478**	**-286**	**-206**	**Yes**	**38**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Barium (mg/L)	**ARGWA-20 (bg)**	**0.0009855**	**292**	**206**	**Yes**	**38**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix I - Trend Tests - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/21/2025, 7:44 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	**ARGWA-19 (bg)**	**-0.001478**	**-286**	**-206**	**Yes**	**38**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Barium (mg/L)	**ARGWA-20 (bg)**	**0.0009855**	**292**	**206**	**Yes**	**38**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Barium (mg/L)	ARGWC-23	-0.004479	-29	-74	No	19	0	n/a	n/a	0.01	NP

Appendix III - Trend Tests - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/21/2025, 7:45 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**ARGWC-21**	**0.08202**	**196**	**92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**ARGWA-20 (bg)**	**0.2882**	**115**	**92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**ARGWC-21**	**4.662**	**181**	**92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**ARGWC-23**	**2.036**	**84**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	**ARGWC-23**	**0.06401**	**106**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWA-19 (bg)**	**-0.2237**	**-315**	**-191**	**Yes**	**36**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWC-21**	**7.926**	**462**	**191**	**Yes**	**36**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**ARGWA-19 (bg)**	**-5.76**	**-101**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**ARGWC-21**	**26.53**	**160**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**ARGWC-22**	**-30.67**	**-76**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III - Trend Tests - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/21/2025, 7:45 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	ARGWA-19 (bg)	0	-3	-92	No	22	31.82	n/a	n/a	0.01	NP
Boron (mg/L)	ARGWA-20 (bg)	0.003217	77	92	No	22	18.18	n/a	n/a	0.01	NP
Boron (mg/L)	**ARGWC-21**	**0.08202**	**196**	**92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	ARGWC-23	0.009053	43	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	ARGWC-22	0.07995	58	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	ARGWA-19 (bg)	-0.4593	-86	-92	No	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**ARGWA-20 (bg)**	**0.2882**	**115**	**92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**ARGWC-21**	**4.662**	**181**	**92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**ARGWC-23**	**2.036**	**84**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	ARGWC-22	0	-11	-81	No	20	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	ARGWA-19 (bg)	0	14	105	No	24	33.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	ARGWA-20 (bg)	0	-11	-105	No	24	45.83	n/a	n/a	0.01	NP
Fluoride (mg/L)	**ARGWC-23**	**0.06401**	**106**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	ARGWA-19 (bg)	0.006013	32	105	No	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	ARGWA-20 (bg)	0.01538	74	111	No	25	0	n/a	n/a	0.01	NP
pH, Field (SU)	ARGWC-23	0.001975	7	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**ARGWA-19 (bg)**	**-0.2237**	**-315**	**-191**	**Yes**	**36**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	ARGWA-20 (bg)	-0.1019	-110	-184	No	35	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**ARGWC-21**	**7.926**	**462**	**191**	**Yes**	**36**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	ARGWC-23	2.717	62	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWC-22	-19.28	-45	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	**ARGWA-19 (bg)**	**-5.76**	**-101**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	ARGWA-20 (bg)	0.4934	32	87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	**ARGWC-21**	**26.53**	**160**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	ARGWC-23	2.241	31	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	**ARGWC-22**	**-30.67**	**-76**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**

PLANT ARKWRIGHT AP #2 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		0.005	0.01
Barium, Total (mg/L)	2		0.11	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.001	0.006
Combined Radium, Total (pCi/L)	5		2.65	5
Fluoride, Total (mg/L)	4		0.15	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.013	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.001	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Silver, Total (mg/L)	n/a		0.001	0.001
Thallium, Total (mg/L)	0.002		0.002	0.002

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

**CCR = Coal Combustion Residuals*

Lithium ARGWC-23 Trend Test - All/Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/22/2025, 6:59 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Lithium (mg/L)	**ARGWC-23**	**0.007192**	**128**	**62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Lithium ARGWC-23 Trend Test - Truncated Record - All Results (No Significant)

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/22/2025, 6:57 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Lithium (mg/L)	ARGWC-23	0.0002229	0	20	No	9	0	n/a	n/a	0.05	NP

Confidence Interval Summary Table - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/22/2025, 7:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (mg/L)	**ARAMW-7**	**0.07727**	**0.04751**	**0.006**	**Yes**	**10**	**0**	**x^2**	**0.01**	**Param.**
Lithium (mg/L)	**ARGWC-23**	**0.05436**	**0.04448**	**0.04**	**Yes**	**9**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**ARAMW-7**	**0.068**	**0.0585**	**0.04**	**Yes**	**10**	**0**	**No**	**0.011**	**NP (normality)**
Molybdenum (mg/L)	**ARAMW-8**	**0.1967**	**0.1263**	**0.1**	**Yes**	**10**	**0**	**x^3**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/22/2025, 7:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	ARAMW-8	0.003	0.00115	0.006	No	8	75	No	0.004	NP (NDs)
Antimony (mg/L)	ARAMW-9	0.003	0.00107	0.006	No	6	66.67	No	0.0155	NP (NDs)
Arsenic (mg/L)	ARGWC-21	0.005	0.0019	0.01	No	24	41.67	No	0.01	NP (normality)
Arsenic (mg/L)	ARGWC-23	0.005	0.00075	0.01	No	19	84.21	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-22	0.005	0.00221	0.01	No	19	78.95	No	0.01	NP (NDs)
Arsenic (mg/L)	ARAMW-1	0.005	0.005	0.01	No	11	90.91	No	0.006	NP (NDs)
Arsenic (mg/L)	ARAMW-2	0.02555	0.004985	0.01	No	11	0	ln(x)	0.01	Param.
Arsenic (mg/L)	ARAMW-7	0.005	0.00035	0.01	No	9	55.56	No	0.002	NP (NDs)
Arsenic (mg/L)	ARAMW-8	0.005	0.00031	0.01	No	9	66.67	No	0.002	NP (NDs)
Arsenic (mg/L)	ARAMW-9	0.005	0.00265	0.01	No	6	83.33	No	0.0155	NP (NDs)
Barium (mg/L)	ARGWC-21	0.11	0.045	2	No	24	0	No	0.01	NP (normality)
Barium (mg/L)	ARGWC-23	0.1422	0.09857	2	No	19	0	No	0.01	Param.
Barium (mg/L)	ARGWC-22	0.04467	0.02813	2	No	19	0	x^(1/3)	0.01	Param.
Barium (mg/L)	ARAMW-1	0.05074	0.04199	2	No	11	0	No	0.01	Param.
Barium (mg/L)	ARAMW-2	0.1033	0.06174	2	No	11	0	x^(1/3)	0.01	Param.
Barium (mg/L)	ARAMW-7	0.0432	0.0243	2	No	9	0	No	0.002	NP (normality)
Barium (mg/L)	ARAMW-8	0.1171	0.09623	2	No	9	0	No	0.01	Param.
Barium (mg/L)	ARAMW-9	0.02747	0.005937	2	No	6	0	No	0.01	Param.
Beryllium (mg/L)	ARGWC-23	0.0005	0.00033	0.004	No	18	94.44	No	0.01	NP (NDs)
Beryllium (mg/L)	ARGWC-22	0.0005	0.00036	0.004	No	18	72.22	No	0.01	NP (NDs)
Beryllium (mg/L)	ARAMW-7	0.0025	0.000236	0.004	No	9	33.33	No	0.002	NP (normality)
Chromium (mg/L)	ARGWC-21	0.01	0.0017	0.1	No	22	95.45	No	0.01	NP (NDs)
Chromium (mg/L)	ARGWC-22	0.01	0.0048	0.1	No	19	94.74	No	0.01	NP (NDs)
Cobalt (mg/L)	ARGWC-21	0.0018	0.0007	0.006	No	23	0	No	0.01	NP (normality)
Cobalt (mg/L)	ARGWC-23	0.001855	0.000732	0.006	No	20	5	x^(1/3)	0.01	Param.
Cobalt (mg/L)	ARGWC-22	0.007337	0.002646	0.006	No	20	0	sqrt(x)	0.01	Param.
Cobalt (mg/L)	ARAMW-1	0.001	0.00035	0.006	No	12	16.67	No	0.01	NP (normality)
Cobalt (mg/L)	ARAMW-2	0.002864	0.002027	0.006	No	12	0	No	0.01	Param.
Cobalt (mg/L)	**ARAMW-7**	**0.07727**	**0.04751**	**0.006**	**Yes**	**10**	**0**	**x^2**	**0.01**	**Param.**
Cobalt (mg/L)	ARAMW-8	0.004869	0.002583	0.006	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-21	1.248	0.5587	5	No	22	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-23	0.9473	0.2117	5	No	19	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-22	1.258	0.4432	5	No	19	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-1	3.839	0.5637	5	No	11	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-2	4.95	2.306	5	No	11	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-7	5.061	3.675	5	No	9	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-8	2.151	0.188	5	No	9	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-9	6.411	0.3525	5	No	7	0	No	0.01	Param.
Fluoride (mg/L)	ARGWC-21	0.1545	0.09189	4	No	24	0	ln(x)	0.01	Param.
Fluoride (mg/L)	ARGWC-23	0.3637	0.23	4	No	20	0	No	0.01	Param.
Fluoride (mg/L)	ARGWC-22	0.105	0.04915	4	No	20	15	ln(x)	0.01	Param.
Fluoride (mg/L)	ARAMW-1	0.214	0.1631	4	No	12	0	No	0.01	Param.
Fluoride (mg/L)	ARAMW-2	0.1404	0.08624	4	No	12	8.333	No	0.01	Param.
Fluoride (mg/L)	ARAMW-7	0.09426	0.03765	4	No	10	40	ln(x)	0.01	Param.
Fluoride (mg/L)	ARAMW-8	0.2471	0.1771	4	No	10	0	No	0.01	Param.
Fluoride (mg/L)	ARAMW-9	0.9858	0.8242	4	No	6	0	No	0.01	Param.
Lead (mg/L)	ARGWC-21	0.002	0.00026	0.015	No	24	91.67	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-23	0.002	0.00026	0.015	No	19	89.47	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-22	0.002	0.00022	0.015	No	19	89.47	No	0.01	NP (NDs)
Lead (mg/L)	ARAMW-7	0.002	0.00013	0.015	No	9	88.89	No	0.002	NP (NDs)
Lithium (mg/L)	ARGWC-21	0.01221	0.01007	0.04	No	23	0	No	0.01	Param.
Lithium (mg/L)	**ARGWC-23**	**0.05436**	**0.04448**	**0.04**	**Yes**	**9**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	ARGWC-22	0.02358	0.0156	0.04	No	20	0	No	0.01	Param.
Lithium (mg/L)	ARAMW-1	0.00988	0.008265	0.04	No	14	0	x^3	0.01	Param.
Lithium (mg/L)	ARAMW-2	0.036	0.0172	0.04	No	14	0	No	0.01	NP (normality)
Lithium (mg/L)	**ARAMW-7**	**0.068**	**0.0585**	**0.04**	**Yes**	**10**	**0**	**No**	**0.011**	**NP (normality)**
Lithium (mg/L)	ARAMW-8	0.006671	0.005598	0.04	No	10	0	x^3	0.01	Param.
Lithium (mg/L)	ARAMW-9	0.01074	0.005171	0.04	No	6	0	No	0.01	Param.
Mercury (mg/L)	ARGWC-21	0.0002	0.000073	0.002	No	18	94.44	No	0.01	NP (NDs)
Mercury (mg/L)	ARGWC-22	0.000372	0.00008	0.002	No	16	87.5	No	0.01	NP (NDs)
Mercury (mg/L)	ARAMW-7	0.0002	0.000113	0.002	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	ARGWC-23	0.06393	0.04721	0.1	No	19	0	x^2	0.01	Param.
Molybdenum (mg/L)	ARGWC-22	0.015	0.000406	0.1	No	19	47.37	No	0.01	NP (normality)
Molybdenum (mg/L)	ARAMW-1	0.009297	0.005413	0.1	No	12	0	No	0.01	Param.
Molybdenum (mg/L)	ARAMW-2	0.015	0.000585	0.1	No	12	41.67	No	0.01	NP (normality)
Molybdenum (mg/L)	ARAMW-7	0.001	0.000321	0.1	No	10	60	No	0.011	NP (NDs)
Molybdenum (mg/L)	**ARAMW-8**	**0.1967**	**0.1263**	**0.1**	**Yes**	**10**	**0**	**x^3**	**0.01**	**Param.**
Molybdenum (mg/L)	ARAMW-9	0.01922	0	0.1	No	6	0	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/22/2025, 7:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Selenium (mg/L)	ARGWC-22	0.005	0.002	0.05	No	19	94.74	No	0.01	NP (NDs)
Silver (mg/L)	ARGWC-21	0.001	0.00043	0.001	No	19	94.74	No	0.01	NP (NDs)
Thallium (mg/L)	ARGWC-23	0.002	0.00028	0.002	No	16	81.25	No	0.01	NP (NDs)
Thallium (mg/L)	ARGWC-22	0.002	0.00035	0.002	No	16	75	No	0.01	NP (NDs)

Appendix I & IV - Trend Tests - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/22/2025, 7:09 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Lithium (mg/L)	**ARGWC-23**	**0.007192**	**128**	**62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	**ARGWA-19 (bg)**	**-0.0001027**	**-108**	**-66**	**Yes**	**21**	**61.9**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	**ARAMW-8**	**0.02997**	**31**	**23**	**Yes**	**10**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Appendix I & IV - Trend Tests - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/22/2025, 7:09 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	ARGWA-19 (bg)	0	9	76	No	23	82.61	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARGWA-20 (bg)	0	-38	-76	No	23	52.17	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARAMW-7	0.005016	9	23	No	10	0	n/a	n/a	0.05	NP
Lithium (mg/L)	ARGWA-19 (bg)	-0.0001631	-72	-76	No	23	4.348	n/a	n/a	0.05	NP
Lithium (mg/L)	ARGWA-20 (bg)	0	10	76	No	23	82.61	n/a	n/a	0.05	NP
Lithium (mg/L)	**ARGWC-23**	**0.007192**	**128**	**62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	ARAMW-7	0.0006215	5	23	No	10	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	**ARGWA-19 (bg)**	**-0.0001027**	**-108**	**-66**	**Yes**	**21**	**61.9**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	ARGWA-20 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Molybdenum (mg/L)	**ARAMW-8**	**0.02997**	**31**	**23**	**Yes**	**10**	**0**	**n/a**	**n/a**	**0.05**	**NP**

FIGURE A.

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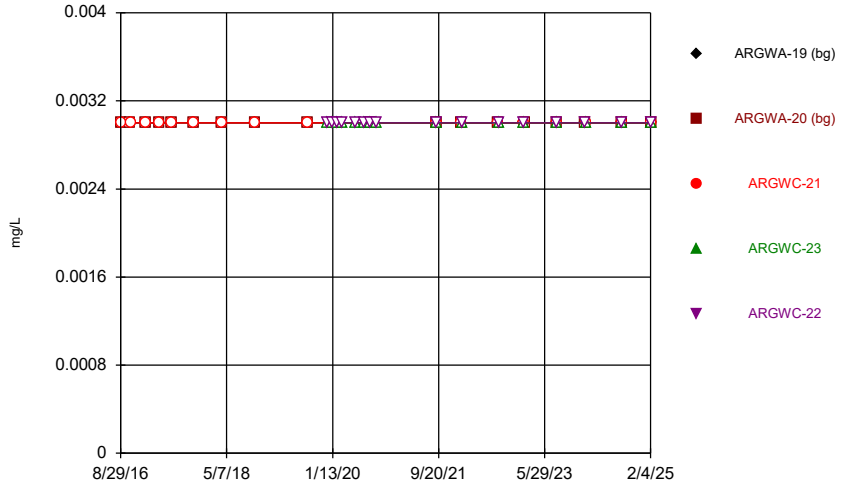
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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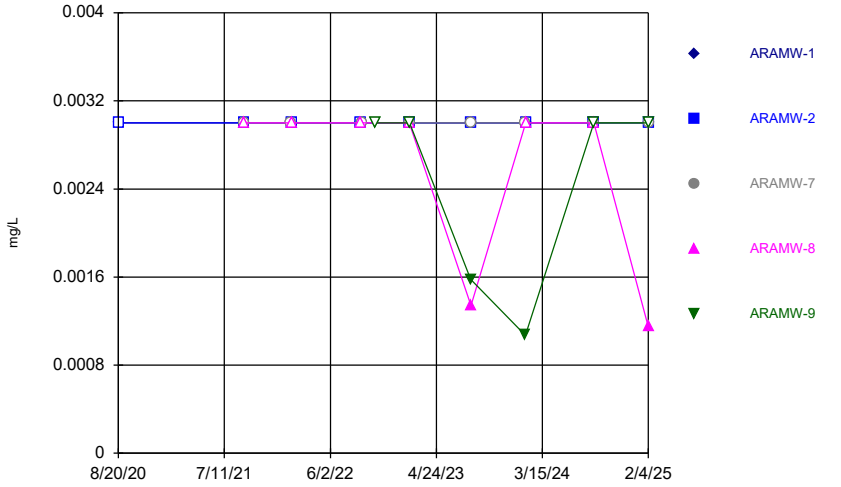
Time Series



Constituent: Antimony Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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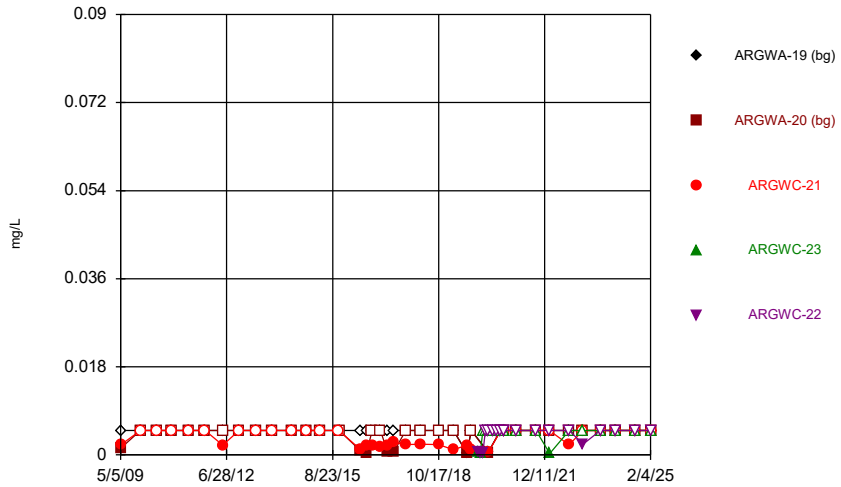
Time Series



Constituent: Arsenic Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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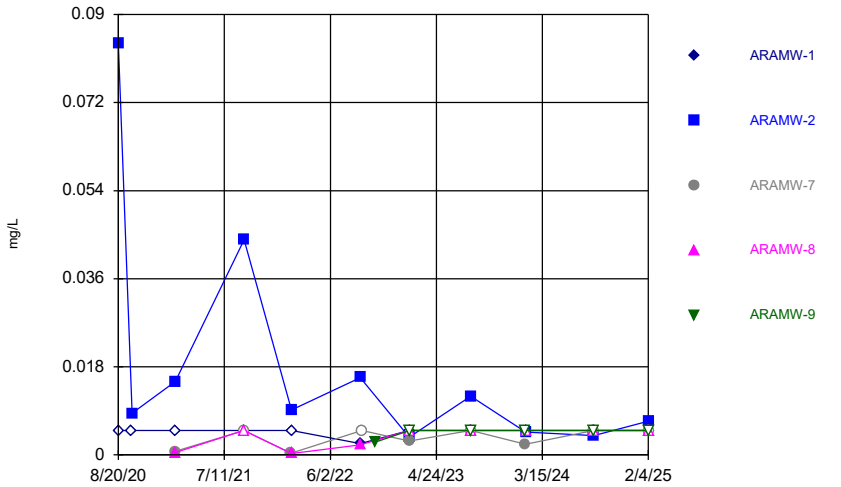
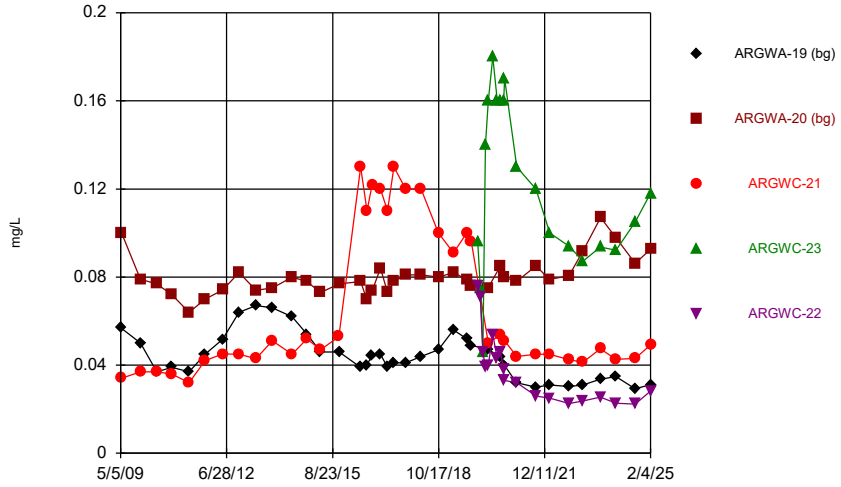
Hollow symbols indicate censored values.

Time Series



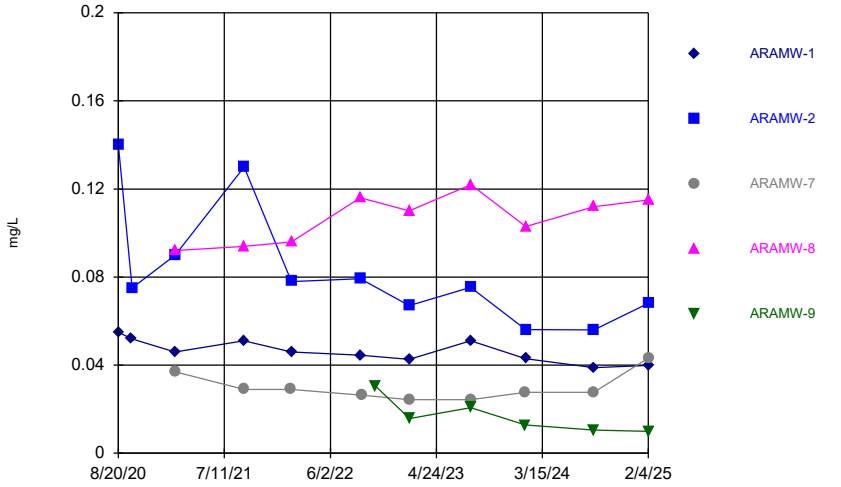
Constituent: Arsenic Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Time Series



Constituent: Barium Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

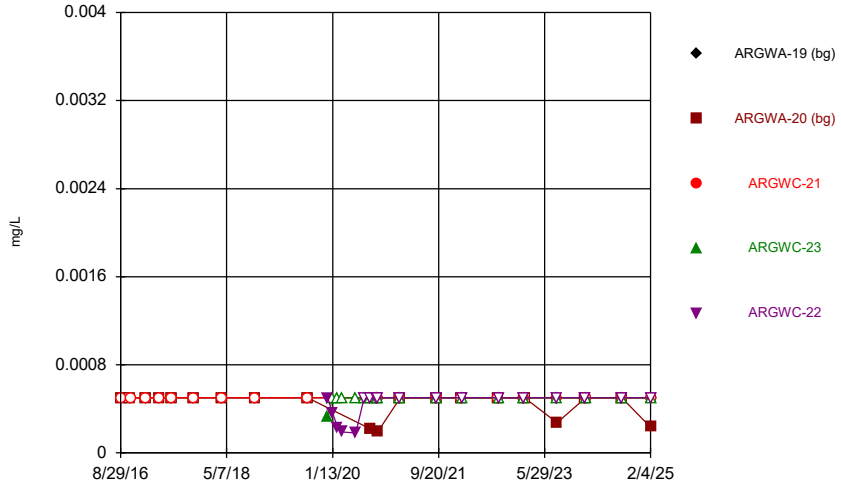
Time Series



Constituent: Barium Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

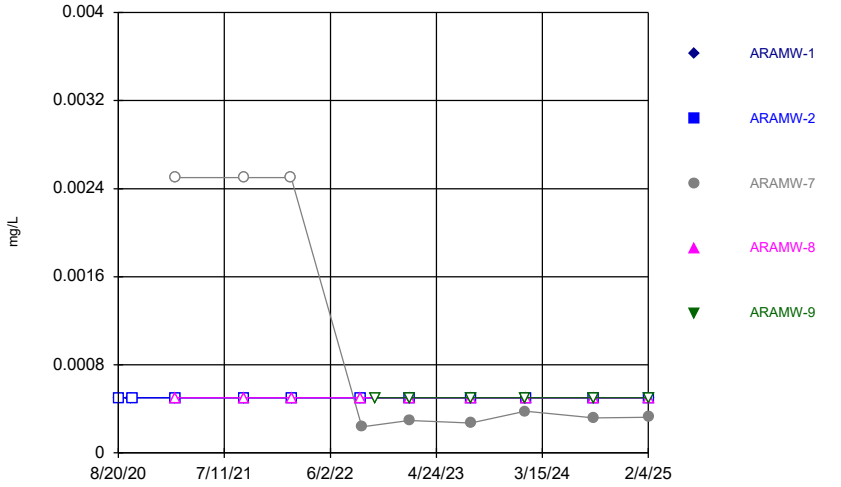
Time Series



Constituent: Beryllium Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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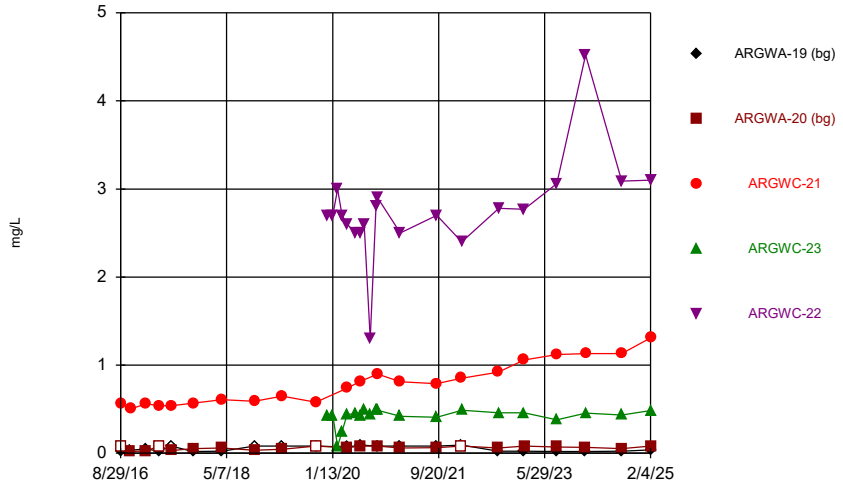
Hollow symbols indicate censored values.

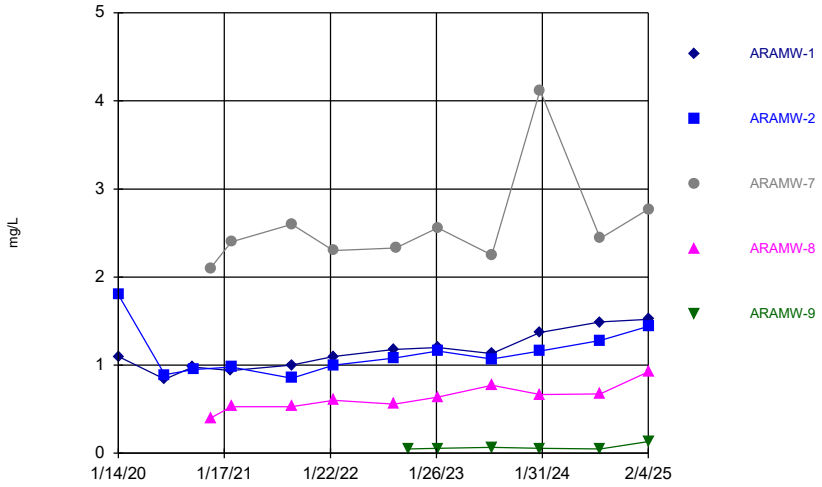
Time Series



Constituent: Boron Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

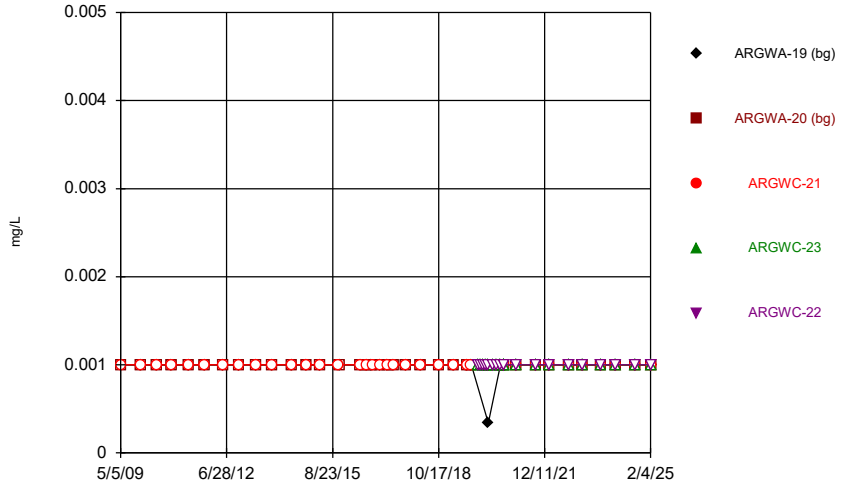
Time Series



Constituent: Boron Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

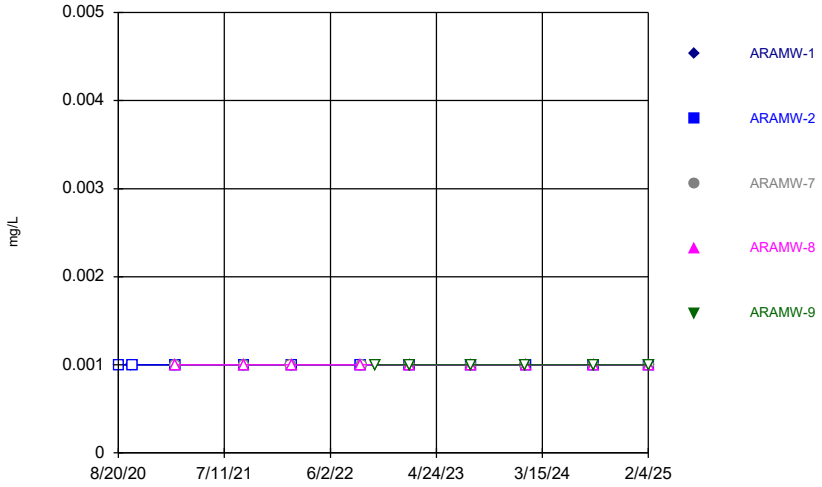
Time Series



Constituent: Cadmium Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

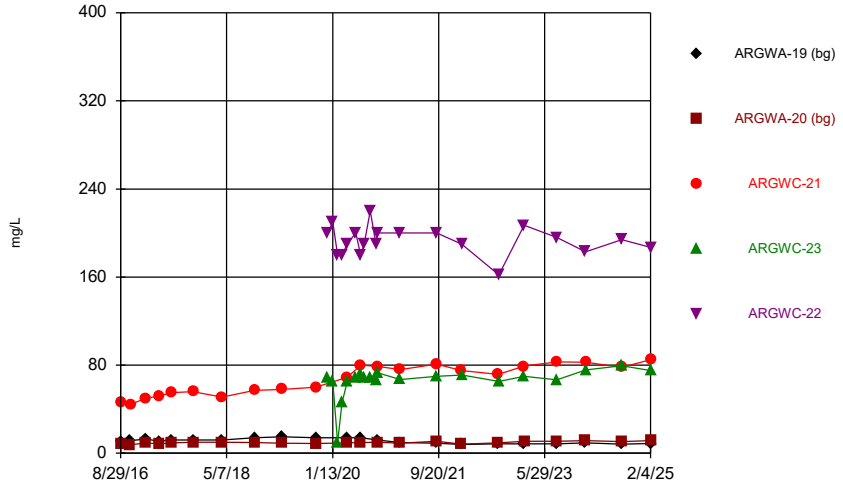
Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

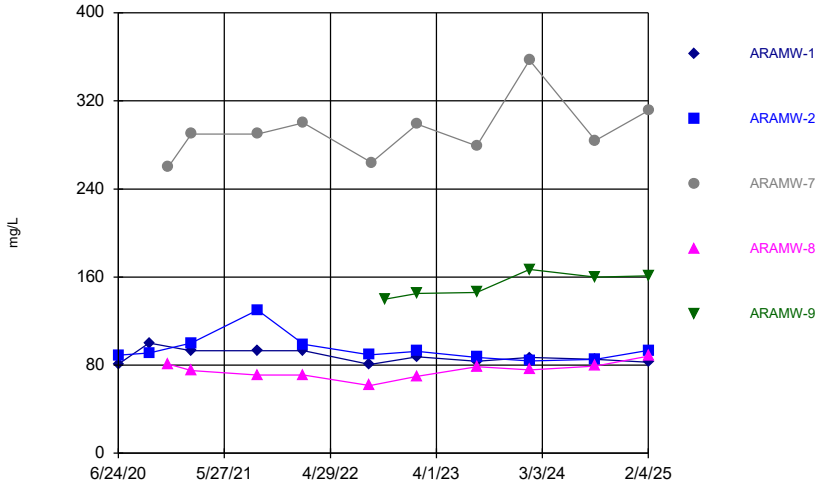
Time Series



Constituent: Calcium Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

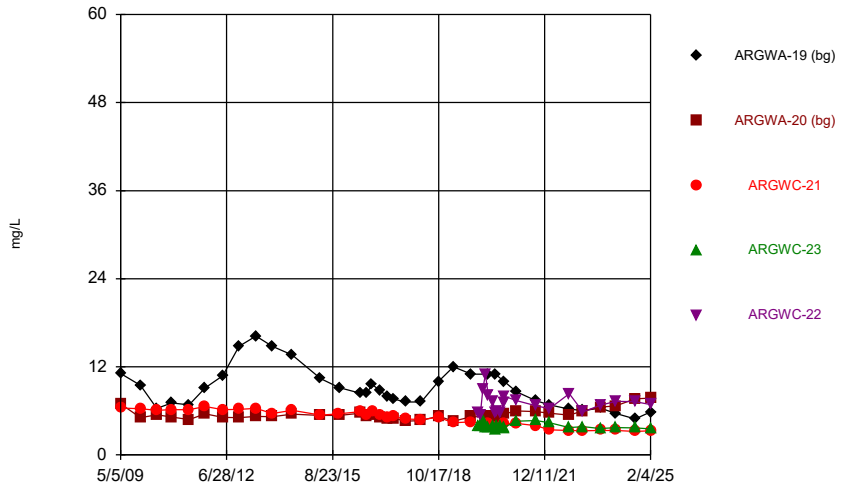
Time Series



Constituent: Calcium Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

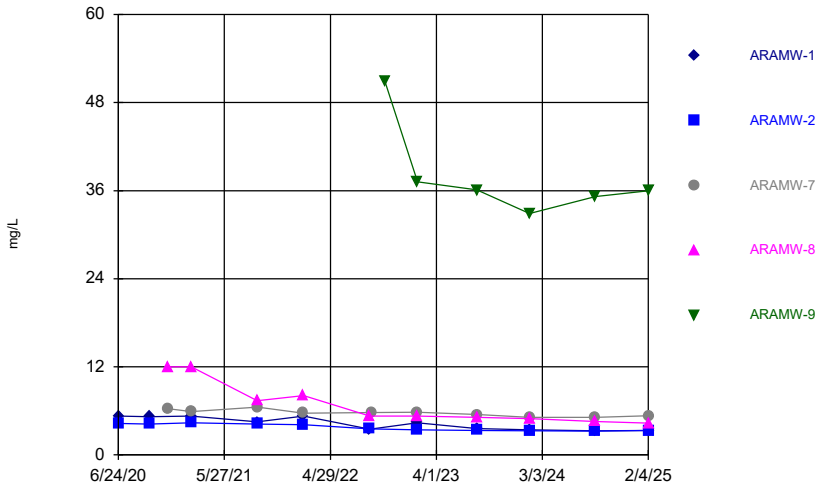
Time Series



Constituent: Chloride Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

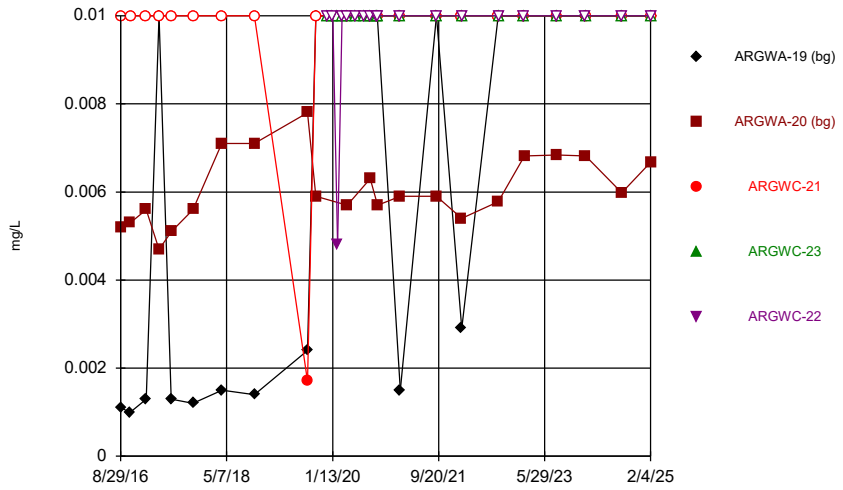
Time Series



Constituent: Chloride Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

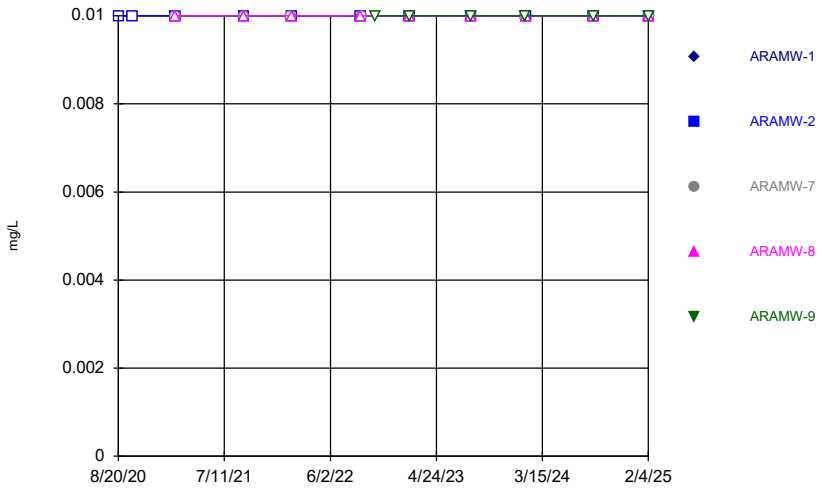
Time Series



Constituent: Chromium Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

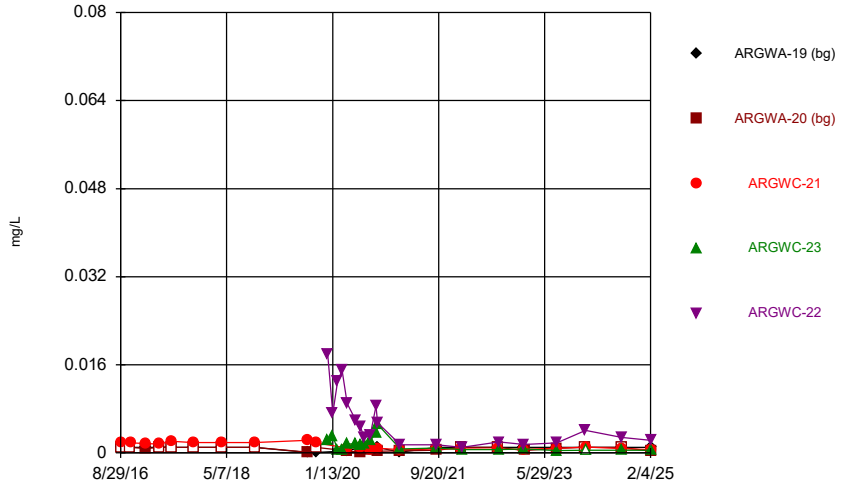
Time Series



Constituent: Chromium Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

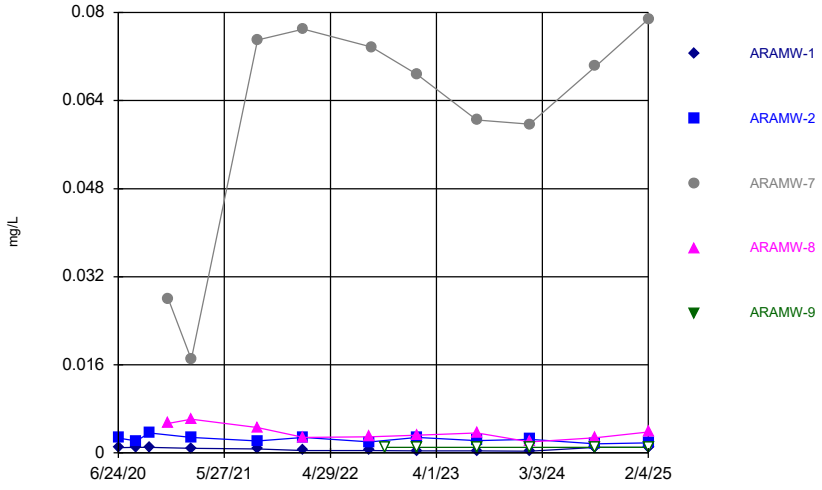
Time Series



Constituent: Cobalt Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

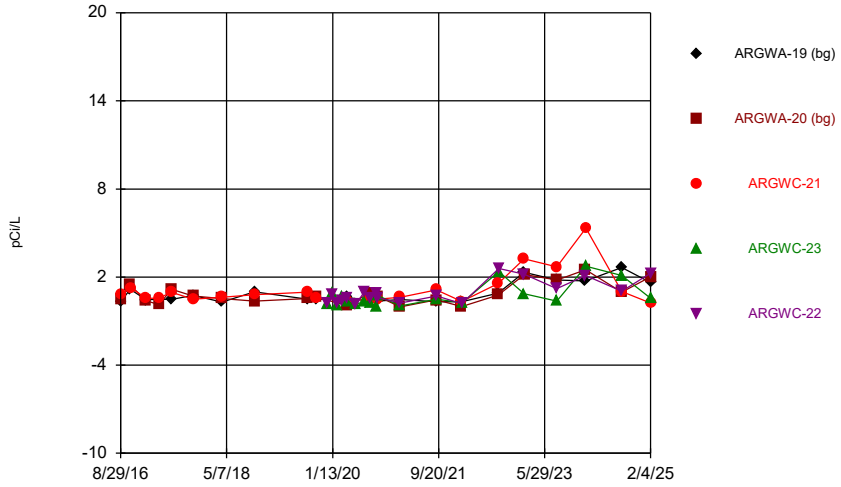
Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



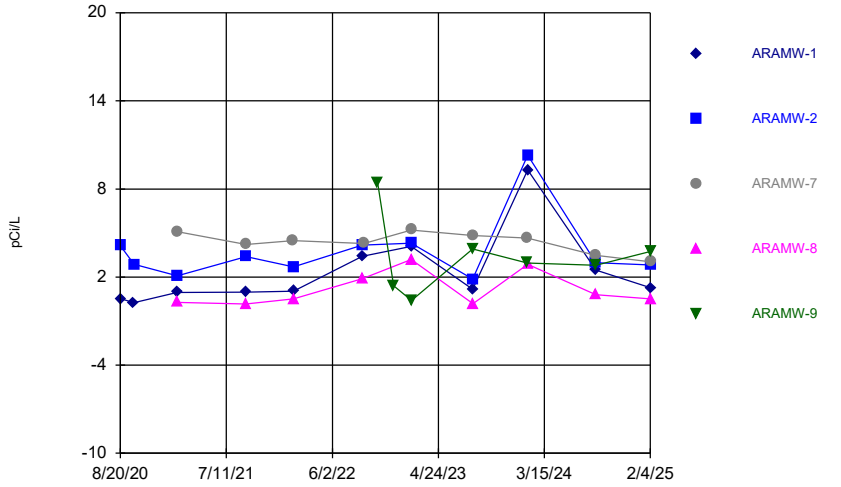
Constituent: Cobalt Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

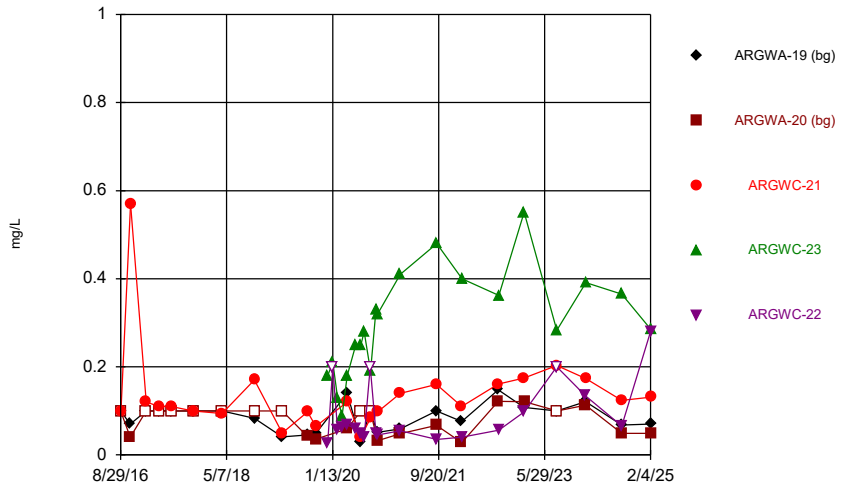
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

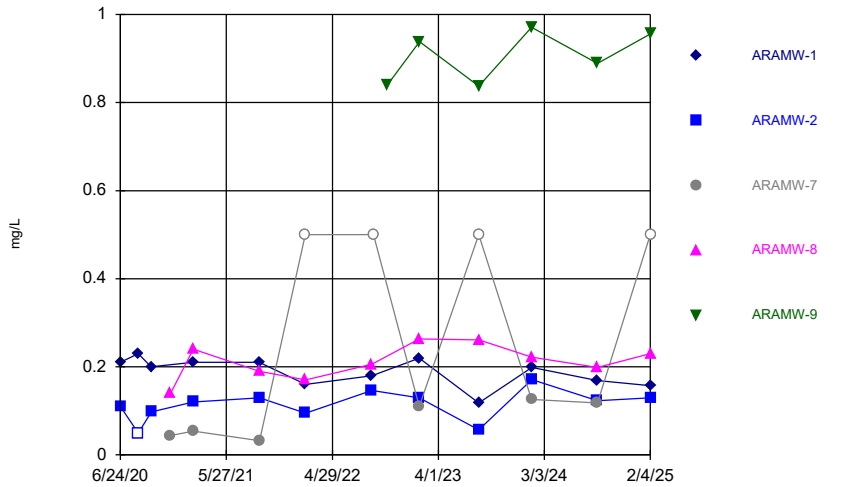
Time Series



Constituent: Fluoride Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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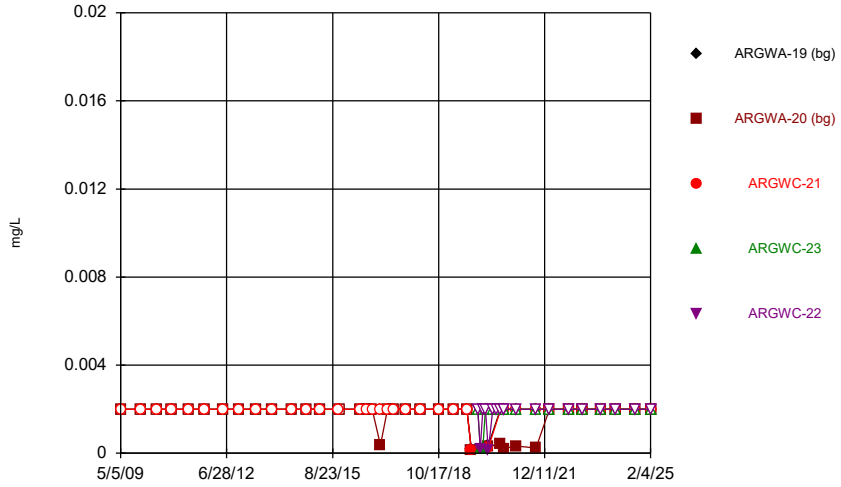
Hollow symbols indicate censored values.

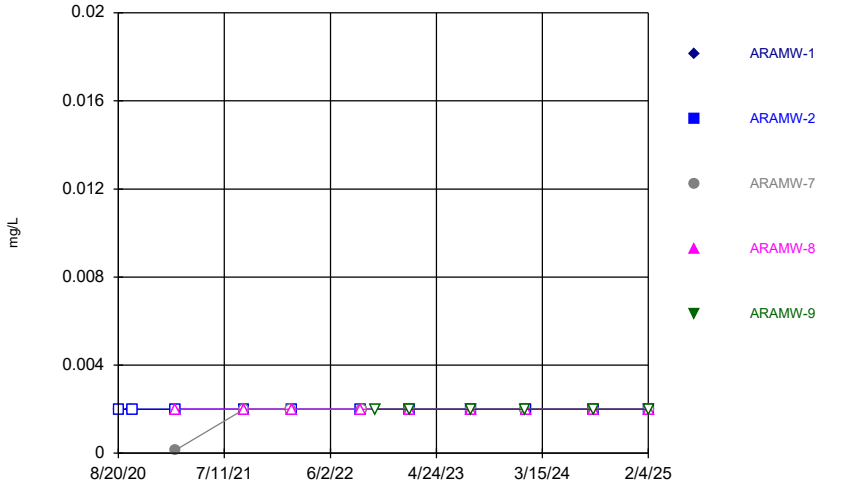
Time Series



Constituent: Lead Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

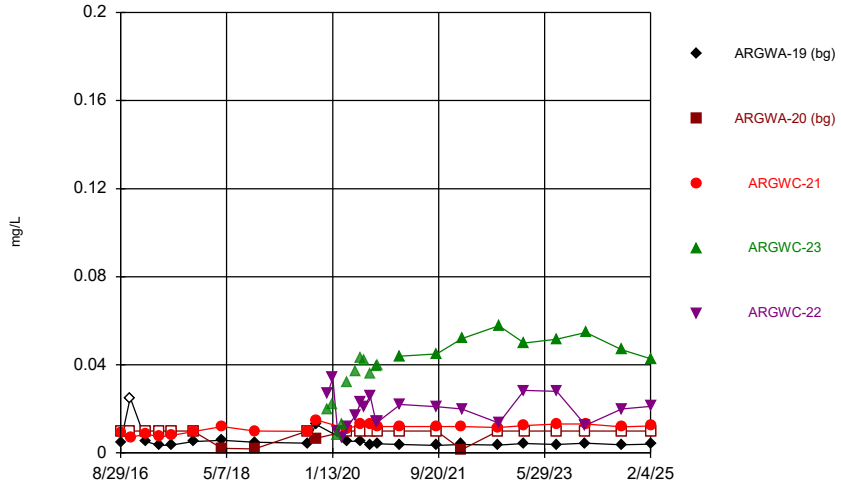
Time Series



Constituent: Lead Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

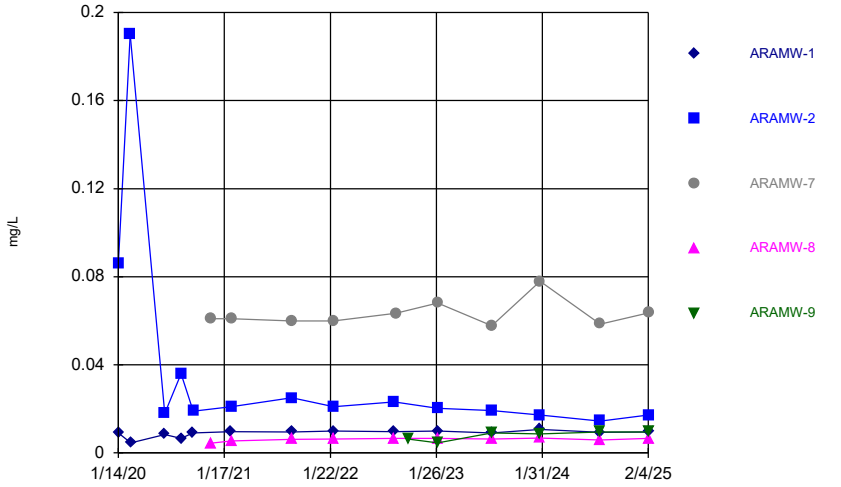
Time Series



Constituent: Lithium Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

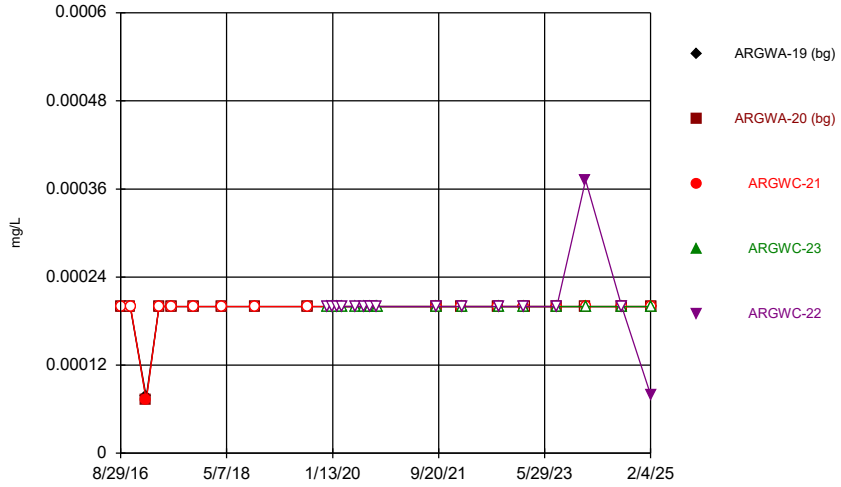
Time Series



Constituent: Lithium Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

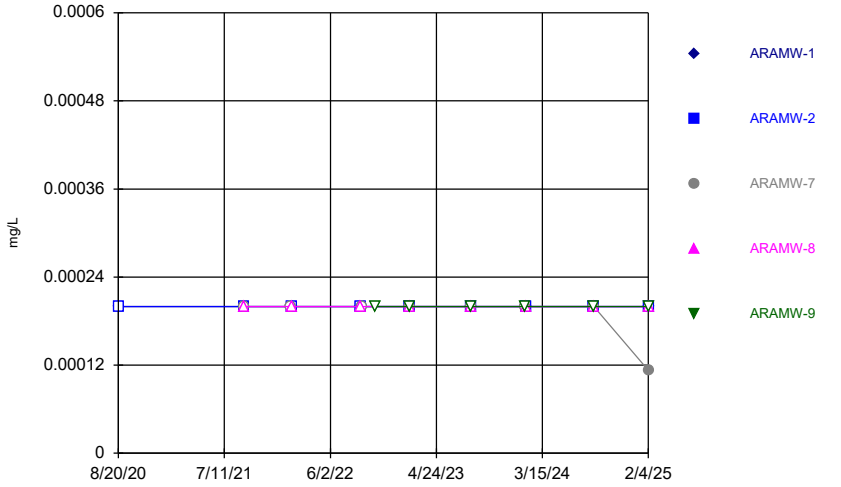
Time Series



Constituent: Mercury Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

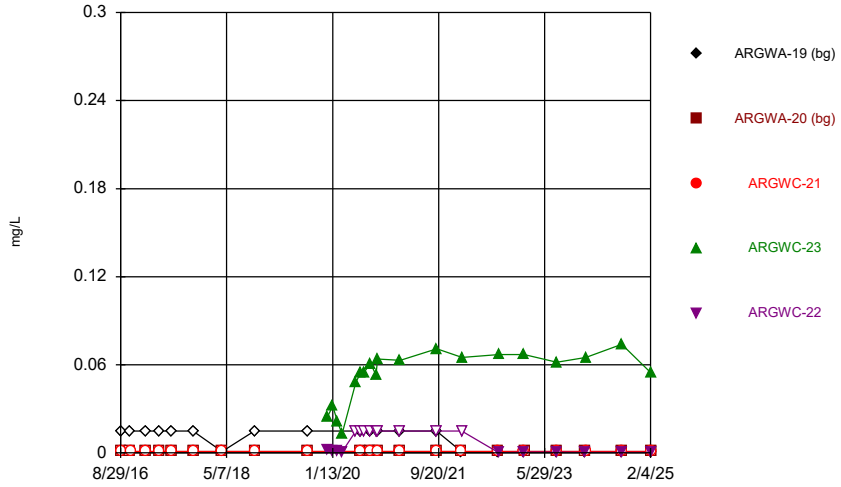
Time Series



Constituent: Mercury Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

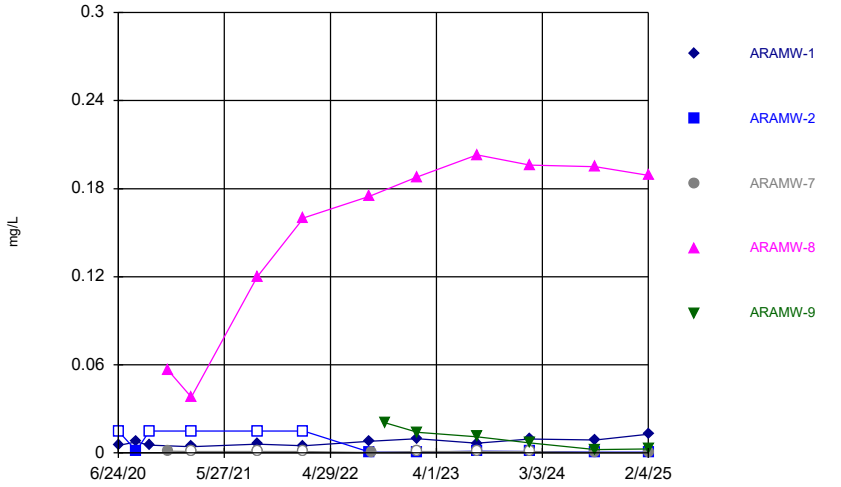
Time Series



Constituent: Molybdenum Analysis Run 5/21/2025 7:50 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

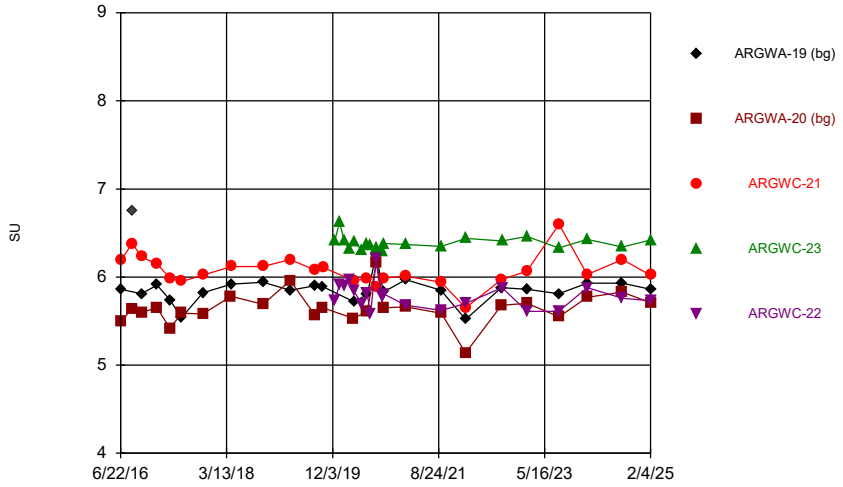
Time Series



Constituent: Molybdenum Analysis Run 5/21/2025 7:51 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

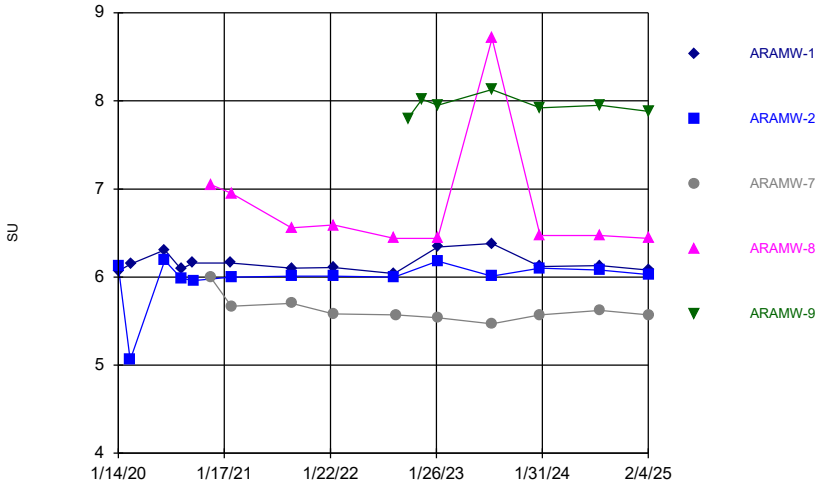
Time Series



Constituent: pH, Field Analysis Run 5/21/2025 7:51 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

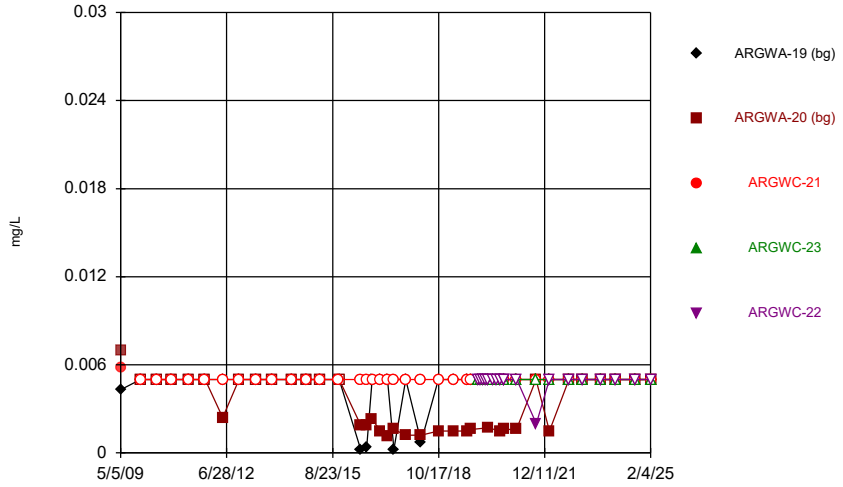
Time Series



Constituent: pH, Field Analysis Run 5/21/2025 7:51 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

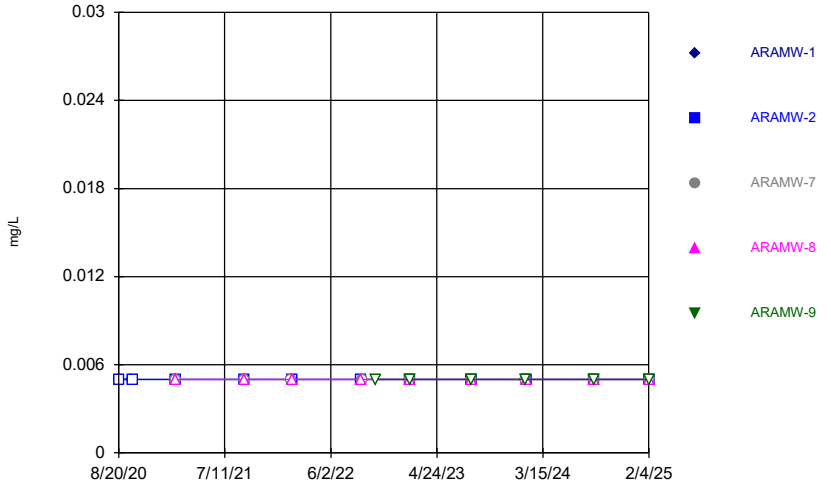
Time Series



Constituent: Selenium Analysis Run 5/21/2025 7:51 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

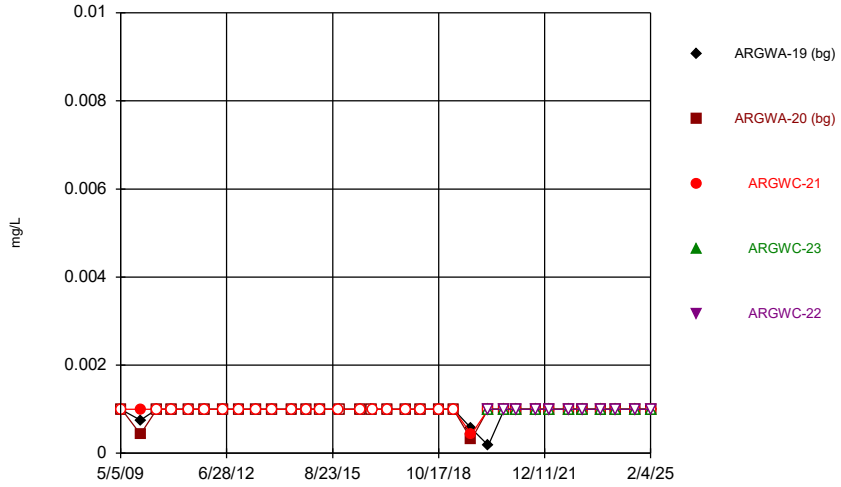
Time Series



Constituent: Selenium Analysis Run 5/21/2025 7:51 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

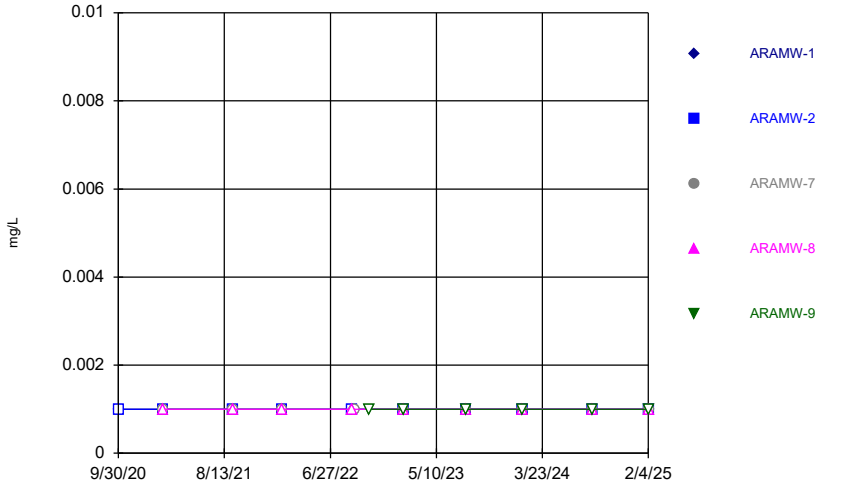
Time Series



Constituent: Silver Analysis Run 5/21/2025 7:51 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

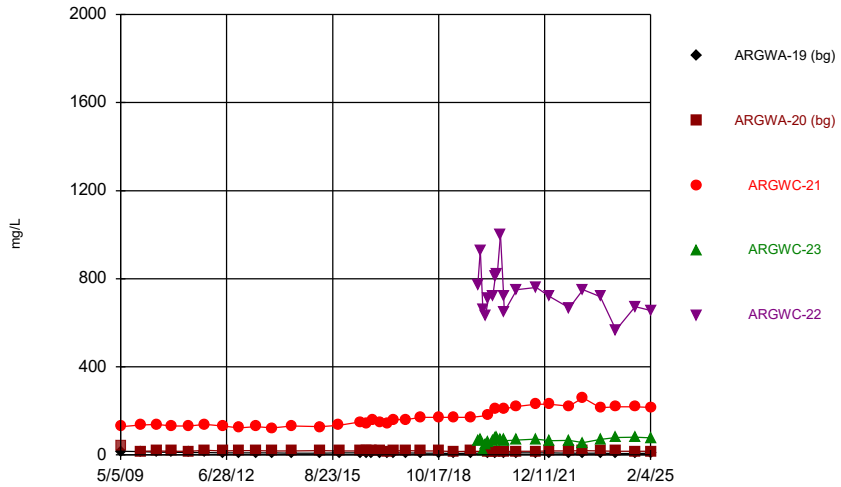
Time Series



Constituent: Silver Analysis Run 5/21/2025 7:51 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

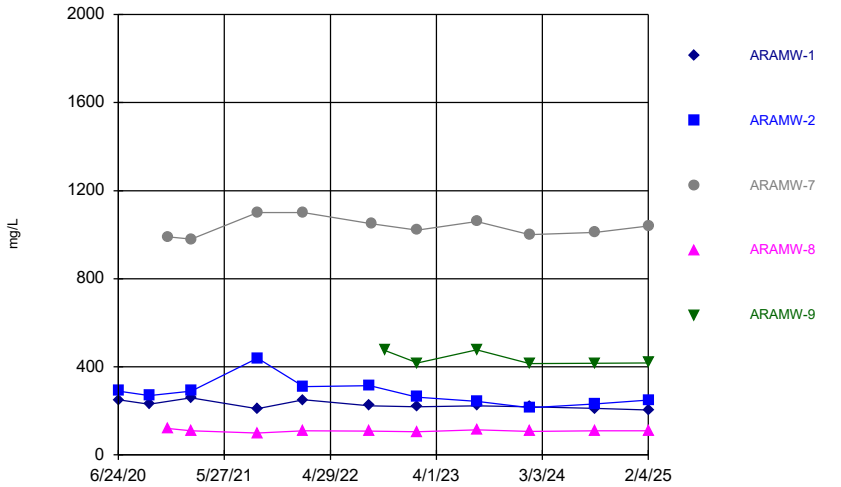
Time Series



Constituent: Sulfate Analysis Run 5/21/2025 7:51 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

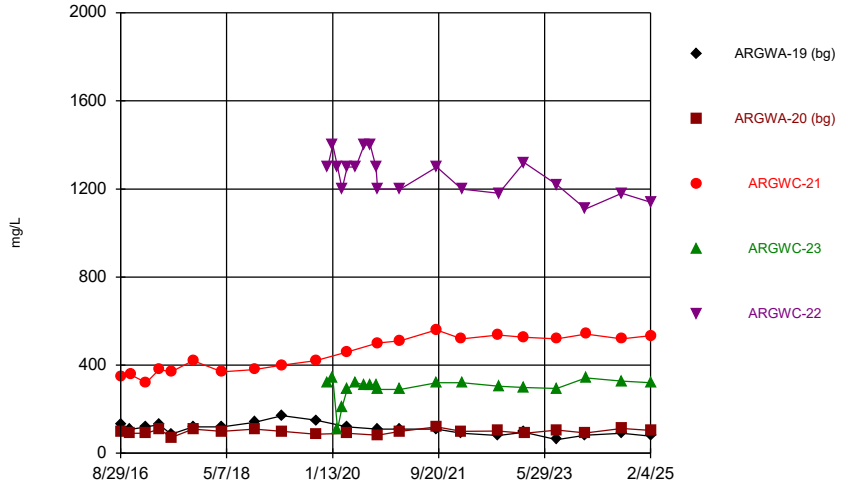
Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series



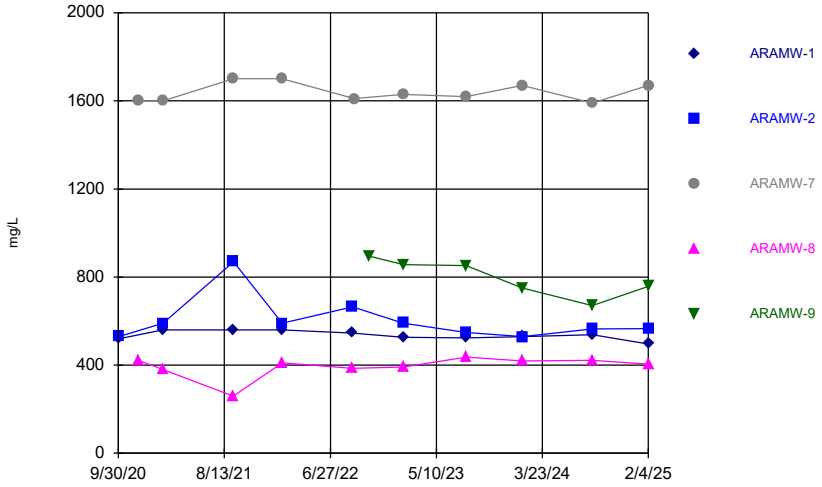
Constituent: Sulfate Analysis Run 5/21/2025 7:51 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Time Series



Constituent: TDS Analysis Run 5/21/2025 7:51 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

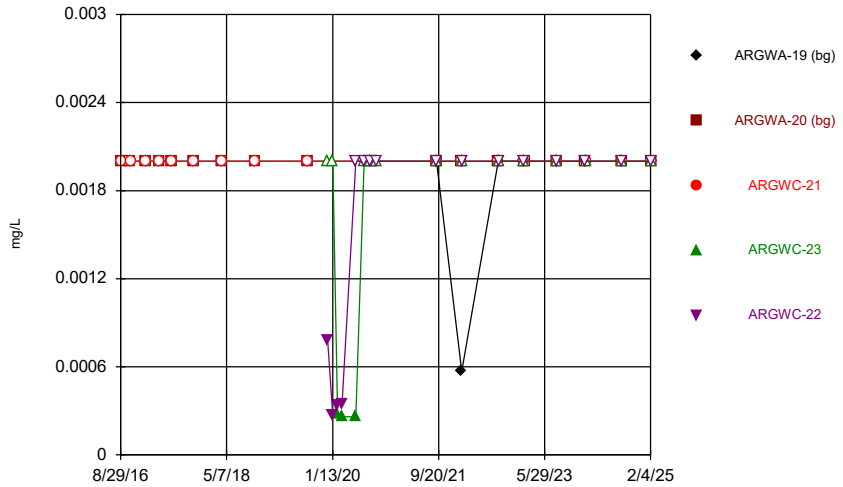
Time Series



Constituent: TDS Analysis Run 5/21/2025 7:51 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

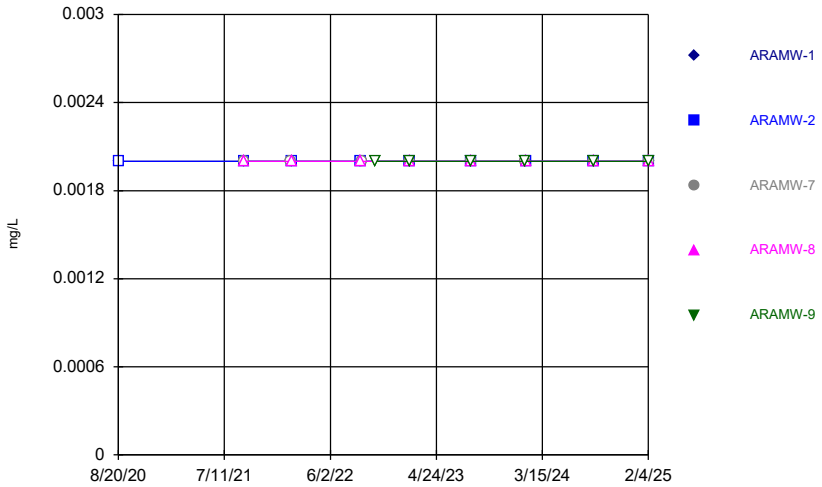
Time Series



Constituent: Thallium Analysis Run 5/21/2025 7:51 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 5/21/2025 7:51 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/21/2025 7:57 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/2016	<0.003	<0.003			
8/30/2016			<0.003		
10/24/2016	<0.003	<0.003			
10/26/2016			<0.003		
1/25/2017	<0.003	<0.003	<0.003		
4/10/2017	<0.003	<0.003	<0.003		
6/19/2017	<0.003		<0.003		
6/20/2017		<0.003			
10/24/2017	<0.003	<0.003	<0.003		
4/9/2018		<0.003			
4/10/2018	<0.003		<0.003		
10/16/2018	<0.003	<0.003	<0.003		
8/20/2019	<0.003	<0.003	<0.003		
12/16/2019				<0.003	<0.003
1/14/2020				<0.003	<0.003
2/11/2020				<0.003	<0.003
3/9/2020				<0.003	<0.003
5/27/2020				<0.003	<0.003
7/15/2020				<0.003	<0.003
8/19/2020	<0.003	<0.003			<0.003
8/20/2020				<0.003	
8/21/2020			<0.003		
9/22/2020				<0.003	<0.003
9/7/2021	<0.003				
9/8/2021		<0.003	<0.003		
9/9/2021				<0.003	
9/10/2021					<0.003
2/1/2022	<0.003	<0.003	<0.003		
2/2/2022					<0.003
2/3/2022				<0.003	
9/1/2022	<0.003		<0.003		
9/2/2022		<0.003			
9/6/2022				<0.003	<0.003
1/31/2023	<0.003		<0.003	<0.003	<0.003
2/1/2023		<0.003			
8/8/2023	<0.003			<0.003	<0.003
8/9/2023			<0.003		
8/10/2023		<0.003			
1/23/2024	<0.003	<0.003			<0.003
1/24/2024			<0.003	<0.003	
8/20/2024	<0.003	<0.003	<0.003	<0.003	<0.003
2/4/2025	<0.003	<0.003	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/21/2025 7:57 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/20/2020	<0.003	<0.003			
9/9/2021	<0.003			<0.003	
9/10/2021		<0.003	<0.003		
2/2/2022			<0.003		
2/3/2022	<0.003	<0.003		<0.003	
9/2/2022	<0.003	<0.003		<0.003	
9/7/2022			<0.003		
10/20/2022					<0.003
1/31/2023	<0.003	<0.003	<0.003	<0.003	
2/1/2023					<0.003
8/8/2023	<0.003	<0.003	<0.003		0.00158 (J)
8/9/2023				0.00134 (J)	
1/23/2024			<0.003		0.00107 (J)
1/24/2024	<0.003	<0.003		<0.003	
8/20/2024	<0.003	<0.003	<0.003	<0.003	<0.003
2/4/2025	<0.003	<0.003	<0.003	0.00115 (J)	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/21/2025 7:57 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
5/5/2009	<0.005				
5/14/2009			0.0022		
5/15/2009		0.0015			
12/5/2009	<0.005	<0.005	<0.005		
6/1/2010	<0.005	<0.005			
6/2/2010			<0.005		
11/11/2010	<0.005	<0.005	<0.005		
5/17/2011	<0.005	<0.005	<0.005		
11/8/2011	<0.005	<0.005	<0.005		
5/16/2012	<0.005	<0.005	0.002 (J)		
11/9/2012		<0.005	<0.005		
11/10/2012	<0.005				
5/14/2013	<0.005	<0.005	<0.005		
11/5/2013	<0.005	<0.005	<0.005		
6/9/2014	<0.005	<0.005	<0.005		
11/18/2014		<0.005	<0.005		
11/19/2014	<0.005				
4/14/2015	<0.005	<0.005	<0.005		
10/29/2015			<0.005		
11/4/2015	<0.005	<0.005			
6/22/2016	<0.005	0.00084 (J)			
6/23/2016			0.0011 (J)		
8/29/2016	<0.005	0.00049 (J)			
8/30/2016			0.002		
10/24/2016	<0.005	<0.005			
10/26/2016			0.0019 (J)		
1/25/2017	<0.005	<0.005	0.0017		
4/10/2017	<0.005	0.00056 (J)	0.002		
6/19/2017	<0.005		0.0026		
6/20/2017		0.00068 (J)			
10/24/2017	<0.005	<0.005	0.0021		
4/9/2018		<0.005			
4/10/2018	<0.005		0.0022		
10/16/2018	<0.005	<0.005	0.0021		
3/26/2019	<0.005				
3/27/2019		<0.005	0.0011 (J)		
8/20/2019	0.00036 (J)	0.00047 (J)	0.002		
10/7/2019	<0.005	<0.005			
10/8/2019			0.0012 (J)		
12/16/2019				0.00075 (J)	0.00066 (J)
1/14/2020				0.00042 (J)	0.00038 (J)
2/11/2020				<0.005	0.0004 (J)
3/9/2020				<0.005	<0.005
4/6/2020		0.00042 (J)			
4/7/2020	0.0006 (J)		0.00054 (J)	<0.005	<0.005
5/27/2020				<0.005	<0.005
7/15/2020				<0.005	<0.005
8/19/2020	<0.005	<0.005			<0.005
8/20/2020				<0.005	
8/21/2020			<0.005		
9/22/2020				<0.005	<0.005
9/29/2020	<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/21/2025 7:57 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
9/30/2020		<0.005			<0.005
10/1/2020			<0.005	<0.005	
2/9/2021	<0.005	<0.005			
2/10/2021			<0.005	<0.005	<0.005
9/7/2021	<0.005				
9/8/2021		<0.005	<0.005		
9/9/2021				<0.005	
9/10/2021					<0.005
2/1/2022	<0.005	<0.005	<0.005		
2/2/2022					<0.005
2/3/2022				0.0003 (J)	
9/1/2022	<0.005		0.00207 (J)		
9/2/2022		<0.005			
9/6/2022				<0.005	<0.005
1/31/2023	<0.005		<0.005	<0.005	0.00221 (J)
2/1/2023		<0.005			
8/8/2023	<0.005			<0.005	<0.005
8/9/2023			<0.005		
8/10/2023		<0.005			
1/23/2024	<0.005	<0.005			<0.005
1/24/2024			<0.005	<0.005	
8/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005
2/4/2025	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/21/2025 7:57 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/20/2020	<0.005	0.084			
9/30/2020	<0.005				
10/1/2020		0.0085			
2/10/2021	<0.005				
2/11/2021		0.015	0.00075 (J)	0.00046 (J)	
9/9/2021	<0.005			<0.005	
9/10/2021		0.044	<0.005		
2/2/2022			0.00035 (J)		
2/3/2022	<0.005	0.0092		0.00031 (J)	
9/2/2022	0.00233 (J)	0.0158		0.00206 (J)	
9/7/2022			<0.005		
10/20/2022					0.00265 (J)
1/31/2023	<0.005	0.00363 (J)	0.00286 (J)	<0.005	
2/1/2023					<0.005
8/8/2023	<0.005	0.012	<0.005		<0.005
8/9/2023				<0.005	
1/23/2024			0.00219 (J)		<0.005
1/24/2024	<0.005	0.0047 (J)		<0.005	
8/20/2024	<0.005	0.00392 (J)	<0.005	<0.005	<0.005
2/4/2025	<0.005	0.00689	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 5/21/2025 7:57 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
5/5/2009	0.057				
5/14/2009			0.034		
5/15/2009		0.1			
12/5/2009	0.05	0.079	0.037		
6/1/2010	0.037	0.077			
6/2/2010			0.037		
11/11/2010	0.039	0.072	0.036		
5/17/2011	0.037	0.064	0.032		
11/8/2011	0.045	0.07	0.042		
5/16/2012	0.0518	0.0741	0.0451		
11/9/2012		0.082	0.045		
11/10/2012	0.064				
5/14/2013	0.067	0.074	0.043		
11/5/2013	0.066	0.075	0.051		
6/9/2014	0.062	0.08	0.045		
11/18/2014		0.078	0.052		
11/19/2014	0.054				
4/14/2015	0.046	0.073	0.047		
10/29/2015			0.053		
11/4/2015	0.046	0.077			
6/22/2016	0.039	0.078			
6/23/2016			0.13		
8/29/2016	0.04	0.07			
8/30/2016			0.11		
10/24/2016	0.0444	0.0738			
10/26/2016			0.122		
1/25/2017	0.045	0.084	0.12		
4/10/2017	0.039	0.073	0.11		
6/19/2017	0.041		0.13		
6/20/2017		0.078			
10/24/2017	0.041	0.081	0.12		
4/9/2018		0.081			
4/10/2018	0.044		0.12		
10/16/2018	0.047	0.08	0.1		
3/26/2019	0.056				
3/27/2019		0.082	0.091		
8/20/2019	0.052	0.079	0.1		
10/7/2019	0.049	0.076			
10/8/2019			0.096		
12/16/2019				0.096	0.076
1/14/2020				0.075	0.071
2/11/2020				0.046	0.046
3/9/2020				0.14	0.039
4/6/2020		0.075			
4/7/2020	0.047		0.05	0.16	0.04
5/27/2020				0.18	0.054
7/15/2020				0.16	0.043
8/19/2020	0.044	0.085			0.046
8/20/2020				0.16	
8/21/2020			0.054		
9/22/2020				0.16	0.038
9/29/2020	0.04				

Time Series

Constituent: Barium (mg/L) Analysis Run 5/21/2025 7:57 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
9/30/2020		0.08			0.033
10/1/2020			0.051	0.17	
2/9/2021	0.032	0.078			
2/10/2021			0.044	0.13	0.032
9/7/2021	0.03				
9/8/2021		0.085	0.045		
9/9/2021				0.12	
9/10/2021					0.026
2/1/2022	0.031	0.079	0.045		
2/2/2022					0.025
2/3/2022				0.1	
9/1/2022	0.0303		0.0425		
9/2/2022		0.0806			
9/6/2022				0.0939	0.0226
1/31/2023	0.031		0.0414	0.0872	0.0237
2/1/2023		0.0919			
8/8/2023	0.0337			0.0936	0.0255
8/9/2023			0.0474		
8/10/2023		0.107			
1/23/2024	0.0348	0.0978			0.0227
1/24/2024			0.0427	0.0922	
8/20/2024	0.0293	0.0863	0.0431	0.105	0.0223
2/4/2025	0.0311	0.0926	0.0492	0.118	0.0282

Time Series

Constituent: Barium (mg/L) Analysis Run 5/21/2025 7:57 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/20/2020	0.055	0.14			
9/30/2020	0.052				
10/1/2020		0.075			
2/10/2021	0.046				
2/11/2021		0.09	0.037	0.092	
9/9/2021	0.051			0.094	
9/10/2021		0.13	0.029		
2/2/2022			0.029		
2/3/2022	0.046	0.078		0.096	
9/2/2022	0.0445	0.0792		0.116	
9/7/2022			0.0263		
10/20/2022					0.0305
1/31/2023	0.0427	0.067	0.0243	0.11	
2/1/2023					0.0158
8/8/2023	0.051	0.0753	0.0244		0.0207
8/9/2023				0.122	
1/23/2024			0.0277		0.0128
1/24/2024	0.043	0.0562		0.103	
8/20/2024	0.0389	0.056	0.0277	0.112	0.0105
2/4/2025	0.0399	0.0681	0.0432	0.115	0.00991

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/21/2025 7:57 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/2016	<0.0005	<0.0005			
8/30/2016			<0.0005		
10/24/2016	<0.0005	<0.0005			
10/26/2016			<0.0005		
1/25/2017	<0.0005	<0.0005	<0.0005		
4/10/2017	<0.0005	<0.0005	<0.0005		
6/19/2017	<0.0005		<0.0005		
6/20/2017		<0.0005			
10/24/2017	<0.0005	<0.0005	<0.0005		
4/9/2018		<0.0005			
4/10/2018	<0.0005		<0.0005		
10/16/2018	<0.0005	<0.0005	<0.0005		
8/20/2019	<0.0005	<0.0005	<0.0005		
12/16/2019				0.00033 (J)	0.0005 (J)
1/14/2020				<0.0005	0.00036 (J)
2/11/2020				<0.0005	0.00023 (J)
3/9/2020				<0.0005	0.00019 (J)
5/27/2020				<0.0005	0.00018 (J)
7/15/2020				<0.0005	<0.0005
8/19/2020	<0.0005	0.00022 (J)			<0.0005
8/20/2020				<0.0005	
8/21/2020			<0.0005		
9/22/2020				<0.0005	<0.0005
9/29/2020	<0.0005				
9/30/2020		0.00019 (J)			<0.0005
10/1/2020			<0.0005	<0.0005	
2/9/2021	<0.0005	<0.0005			
2/10/2021			<0.0005	<0.0005	<0.0005
9/7/2021	<0.0005				
9/8/2021		<0.0005	<0.0005		
9/9/2021				<0.0005	
9/10/2021					<0.0005
2/1/2022	<0.0005	<0.0005	<0.0005		
2/2/2022					<0.0005
2/3/2022				<0.0005	
9/1/2022	<0.0005		<0.0005		
9/2/2022		<0.0005			
9/6/2022				<0.0005	<0.0005
1/31/2023	<0.0005		<0.0005	<0.0005	<0.0005
2/1/2023		<0.0005			
8/8/2023	<0.0005			<0.0005	<0.0005
8/9/2023			<0.0005		
8/10/2023		0.000275 (J)			
1/23/2024	<0.0005	<0.0005			<0.0005
1/24/2024			<0.0005	<0.0005	
8/20/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/4/2025	<0.0005	0.000235 (J)	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/21/2025 7:57 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/20/2020	<0.0005	<0.0005			
9/30/2020	<0.0005				
10/1/2020		<0.0005			
2/10/2021	<0.0005				
2/11/2021		<0.0005	<0.0025	<0.0005	
9/9/2021	<0.0005			<0.0005	
9/10/2021		<0.0005	<0.0025		
2/2/2022			<0.0025		
2/3/2022	<0.0005	<0.0005		<0.0005	
9/2/2022	<0.0005	<0.0005		<0.0005	
9/7/2022			0.000236 (J)		
10/20/2022					<0.0005
1/31/2023	<0.0005	<0.0005	0.000296 (J)	<0.0005	
2/1/2023					<0.0005
8/8/2023	<0.0005	<0.0005	0.000272 (J)		<0.0005
8/9/2023				<0.0005	
1/23/2024			0.000378 (J)		<0.0005
1/24/2024	<0.0005	<0.0005		<0.0005	
8/20/2024	<0.0005	<0.0005	0.000318 (J)	<0.0005	<0.0005
2/4/2025	<0.0005	<0.0005	0.000325 (J)	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/21/2025 7:57 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/2016	0.024 (J)	<0.08			
8/30/2016			0.57		
10/24/2016	0.0339 (J)	0.0194 (J)			
10/26/2016			0.502		
1/25/2017	0.048 (J)	0.026 (J)	0.56		
4/10/2017	0.022 (J)	<0.08	0.54		
6/19/2017	<0.08		0.54		
6/20/2017		0.032 (J)			
10/24/2017	0.021 (J)	0.054	0.57		
4/9/2018		0.06			
4/10/2018	0.022 (J)		0.61		
10/16/2018	<0.08	0.036 (J)	0.59		
3/26/2019	<0.08				
3/27/2019		0.046 (J)	0.65		
10/7/2019	<0.08	<0.08			
10/8/2019			0.58		
12/16/2019				0.42	2.7
1/14/2020				0.43	2.7
2/11/2020				0.079 (J)	3
3/9/2020				0.25	2.7
4/6/2020		0.063 (J)			
4/7/2020	0.072 (J)		0.74	0.44	2.6
5/27/2020				0.45	2.5
6/24/2020					2.5
6/25/2020	0.091	0.081	0.82	0.42	
7/15/2020				0.49	2.6
8/19/2020					1.3
8/20/2020				0.44	
9/22/2020				0.5	2.8
9/29/2020	<0.08				
9/30/2020		0.083			2.9
10/1/2020			0.9	0.49	
2/9/2021	<0.08	0.059 (J)			
2/10/2021			0.81	0.42	2.5
9/7/2021	<0.08				
9/8/2021		0.064 (J)	0.79		
9/9/2021				0.41	
9/10/2021					2.7
2/1/2022	0.092	<0.08	0.85		
2/2/2022					2.4
2/3/2022				0.49	
9/1/2022	0.0238		0.921		
9/2/2022		0.0597			
9/6/2022				0.458	2.78
1/31/2023	0.0234		1.06	0.459	2.77
2/1/2023		0.0816			
8/8/2023	0.0199			0.379	3.06
8/9/2023			1.12		
8/10/2023		0.0714			
1/23/2024	0.0214	0.0685			4.52
1/24/2024			1.13	0.456	
8/20/2024	0.0236	0.0537	1.13	0.434	3.09

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/21/2025 7:57 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
2/4/2025	0.0373	0.0827	1.31	0.485	3.1

Time Series

Constituent: Boron (mg/L) Analysis Run 5/21/2025 7:57 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
1/14/2020	1.1	1.8			
6/24/2020	0.84	0.89			
9/30/2020	0.98				
10/1/2020		0.95			
11/30/2020			2.1		
12/1/2020				0.4	
2/10/2021	0.94				
2/11/2021		0.98	2.4	0.53	
9/9/2021	1			0.53	
9/10/2021		0.85	2.6		
2/2/2022			2.3		
2/3/2022	1.1	1		0.6	
9/2/2022	1.18	1.08		0.558	
9/7/2022			2.33		
10/20/2022					0.05
1/31/2023	1.2	1.16	2.56	0.637	
2/1/2023					0.055
8/8/2023	1.13	1.07	2.25		0.0666
8/9/2023				0.77	
1/23/2024			4.12		0.0549
1/24/2024	1.37	1.16		0.666	
8/20/2024	1.49	1.28	2.44	0.675	0.049
2/4/2025	1.52	1.44	2.77	0.924	0.131

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/21/2025 7:57 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
5/5/2009	<0.001				
5/14/2009			<0.001		
5/15/2009		<0.001			
12/5/2009	<0.001	<0.001	<0.001		
6/1/2010	<0.001	<0.001			
6/2/2010			<0.001		
11/11/2010	<0.001	<0.001	<0.001		
5/17/2011	<0.001	<0.001	<0.001		
11/8/2011	<0.001	<0.001	<0.001		
5/16/2012	<0.001	<0.001	<0.001		
11/9/2012		<0.001	<0.001		
11/10/2012	<0.001				
5/14/2013	<0.001	<0.001	<0.001		
11/5/2013	<0.001	<0.001	<0.001		
6/9/2014	<0.001	<0.001	<0.001		
11/18/2014		<0.001	<0.001		
11/19/2014	<0.001				
4/14/2015	<0.001	<0.001	<0.001		
10/29/2015			<0.001		
11/4/2015	<0.001	<0.001			
6/22/2016	<0.001	<0.001			
6/23/2016			<0.001		
8/29/2016	<0.001	<0.001			
8/30/2016			<0.001		
10/24/2016	<0.001	<0.001			
10/26/2016			<0.001		
1/25/2017	<0.001	<0.001	<0.001		
4/10/2017	<0.001	<0.001	<0.001		
6/19/2017	<0.001		<0.001		
6/20/2017		<0.001			
10/24/2017	<0.001	<0.001	<0.001		
4/9/2018		<0.001			
4/10/2018	<0.001		<0.001		
10/16/2018	<0.001	<0.001	<0.001		
3/26/2019	<0.001				
3/27/2019		<0.001	<0.001		
8/20/2019	<0.001	<0.001	<0.001		
10/7/2019	<0.001	<0.001			
10/8/2019			<0.001		
12/16/2019				<0.001	<0.001
1/14/2020				<0.001	<0.001
2/11/2020				<0.001	<0.001
3/9/2020				<0.001	<0.001
4/6/2020		<0.001			
4/7/2020	0.00034 (J)		<0.001	<0.001	<0.001
5/27/2020				<0.001	<0.001
7/15/2020				<0.001	<0.001
8/19/2020	<0.001	<0.001			<0.001
8/20/2020				<0.001	
8/21/2020			<0.001		
9/22/2020				<0.001	<0.001
9/29/2020	<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/21/2025 7:57 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
9/30/2020		<0.001			<0.001
10/1/2020			<0.001	<0.001	
2/9/2021	<0.001	<0.001			
2/10/2021			<0.001	<0.001	<0.001
9/7/2021	<0.001				
9/8/2021		<0.001	<0.001		
9/9/2021				<0.001	
9/10/2021					<0.001
2/1/2022	<0.001	<0.001	<0.001		
2/2/2022					<0.001
2/3/2022				<0.001	
9/1/2022	<0.001		<0.001		
9/2/2022		<0.001			
9/6/2022				<0.001	<0.001
1/31/2023	<0.001		<0.001	<0.001	<0.001
2/1/2023		<0.001			
8/8/2023	<0.001			<0.001	<0.001
8/9/2023			<0.001		
8/10/2023		<0.001			
1/23/2024	<0.001	<0.001			<0.001
1/24/2024			<0.001	<0.001	
8/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001
2/4/2025	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/21/2025 7:57 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/20/2020	<0.001	<0.001			
9/30/2020	<0.001				
10/1/2020		<0.001			
2/10/2021	<0.001				
2/11/2021		<0.001	<0.001	<0.001	
9/9/2021	<0.001			<0.001	
9/10/2021		<0.001	<0.001		
2/2/2022			<0.001		
2/3/2022	<0.001	<0.001		<0.001	
9/2/2022	<0.001	<0.001		<0.001	
9/7/2022			<0.001		
10/20/2022					<0.001
1/31/2023	<0.001	<0.001	<0.001	<0.001	
2/1/2023					<0.001
8/8/2023	<0.001	<0.001	<0.001		<0.001
8/9/2023				<0.001	
1/23/2024			<0.001		<0.001
1/24/2024	<0.001	<0.001		<0.001	
8/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001
2/4/2025	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 7:57 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/2016	11	8.3			
8/30/2016			46		
10/24/2016	11.5	7.66			
10/26/2016			44.3		
1/25/2017	13	9.4	50		
4/10/2017	11	8.6	52		
6/19/2017	12		55		
6/20/2017		9.4			
10/24/2017	12	9.9	56		
4/9/2018		9.9			
4/10/2018	12		51		
10/16/2018	14	9.8	57		
3/26/2019	15				
3/27/2019		9.2	58		
10/7/2019	14	8.9			
10/8/2019			60		
12/16/2019				69	200
1/14/2020				65	210
2/11/2020				10	180
3/9/2020				46	180
4/6/2020		9.5			
4/7/2020	14		69	65	190
5/27/2020				69	200
6/24/2020					180
6/25/2020	14	9.6	80	72	
7/15/2020				68	190
8/19/2020					220
8/20/2020				69	
9/22/2020				66	190
9/29/2020	12				
9/30/2020		9.9			200
10/1/2020			79	73	
2/9/2021	9.7	9.2			
2/10/2021			76	67	200
9/7/2021	9.2				
9/8/2021		11	81		
9/9/2021				70	
9/10/2021					200
2/1/2022	8	8.3	75		
2/2/2022					190
2/3/2022				71	
9/1/2022	8.52		71.5		
9/2/2022		9.48			
9/6/2022				65.2	162
1/31/2023	8.5		79.1	69.9	207
2/1/2023		10.8			
8/8/2023	8.51			66.6	196
8/9/2023			82.9		
8/10/2023		11			
1/23/2024	9.34	11.4			183
1/24/2024			82.6	75.6	
8/20/2024	8.29	10.6	78	79.6	194

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 7:57 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
2/4/2025	8.77	11.4	85.1	75.2	187

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 7:57 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
6/24/2020	81	89			
9/30/2020	100				
10/1/2020		91			
11/30/2020			260		
12/1/2020				81	
2/10/2021	93				
2/11/2021		100	290	75	
9/9/2021	93			71	
9/10/2021		130	290		
2/2/2022			300		
2/3/2022	93	99		71	
9/2/2022	80.5	89.2		61.4	
9/7/2022			264		
10/20/2022					140
1/31/2023	87.7	92.5	299	69.8	
2/1/2023					145
8/8/2023	83.4	87.1	279		146
8/9/2023				78.6	
1/23/2024			357		167
1/24/2024	86.9	83.7		75.8	
8/20/2024	85.4	85.2	284	79.2	160
2/4/2025	82.7	93.4	311	88.1	161

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 7:57 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
5/5/2009	11.1				
5/14/2009			6.38		
5/15/2009		6.86			
12/5/2009	9.46	5.06	6.28		
6/1/2010	6.32	5.47			
6/2/2010			6.1		
11/11/2010	7.08	5.18	6.15		
5/17/2011	6.84	4.8	6.17		
11/8/2011	9.13	5.62	6.6		
5/16/2012	10.8	5.1	6.18		
11/9/2012		5.06	6.19		
11/10/2012	14.8				
5/14/2013	16.2	5.25	6.32		
11/5/2013	14.8	5.19	5.65		
6/9/2014	13.6	5.55	6.08		
4/14/2015	10.4	5.39	5.43		
10/29/2015			5.62		
11/4/2015	9.19	5.38			
6/22/2016	8.4	5.7			
6/23/2016			5.9		
8/29/2016	8.4	5.3			
8/30/2016			5.5		
10/24/2016	9.6	5.4			
10/26/2016			6		
1/25/2017	8.7	5.1	5.4		
4/10/2017	8	4.9	5.1		
6/19/2017	7.6		5.2		
6/20/2017		5			
10/24/2017	7.2	4.6	4.9		
4/9/2018		4.7			
4/10/2018	7.2		4.8		
10/16/2018	10	5.3	5.1		
3/26/2019	12				
3/27/2019		4.6	4.4		
10/7/2019	11	5.2			
10/8/2019			4.5		
12/16/2019				3.9	5.8
1/14/2020				4	5.5
2/11/2020				4.7	9
3/9/2020				3.7	11
4/6/2020		5.2			
4/7/2020	11		4.2	3.8	8.1
5/27/2020				4	7.3
6/24/2020					5.7
6/25/2020	11	5.1	3.7	3.4	
7/15/2020				3.9	6
8/19/2020					5.7
8/20/2020				3.9	
9/22/2020				3.6	7.1
9/29/2020	10				
9/30/2020		5.6			8
10/1/2020			4.3	3.8	

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
2/9/2021	8.6	6			
2/10/2021			4.3	4.6	7.4
9/7/2021	7.4				
9/8/2021		5.9	4		
9/9/2021				4.7	
9/10/2021					6.7
2/1/2022	6.8	5.7	3.4		
2/2/2022					6.3
2/3/2022				4.4	
9/1/2022	6.27		3.34		
9/2/2022		5.44			
9/6/2022				3.73	8.34
1/31/2023	6.04		3.3	3.84	5.88
2/1/2023		6			
8/8/2023	6.37			3.6	6.79
8/9/2023			3.35		
8/10/2023		6.5			
1/23/2024	5.63	6.68			7.31
1/24/2024			3.35	3.74	
8/20/2024	4.89	7.63	3.18	3.68	7.25
2/4/2025	5.84	7.74	3.29	3.55	6.87

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
6/24/2020	5.3	4.3			
9/30/2020	5.2				
10/1/2020		4.2			
11/30/2020			6.3		
12/1/2020				12	
2/10/2021	5.3				
2/11/2021		4.4	5.9	12	
9/9/2021	4.5			7.4	
9/10/2021		4.2	6.5		
2/2/2022			5.7		
2/3/2022	5.3	4.1		8.1	
9/2/2022	3.5	3.54		5.31	
9/7/2022			5.78		
10/20/2022					50.9
1/31/2023	4.36	3.4	5.82	5.3	
2/1/2023					37.2
8/8/2023	3.61	3.35	5.5		36.1
8/9/2023				5.13	
1/23/2024			5.11		32.9
1/24/2024	3.43	3.31		4.96	
8/20/2024	3.27	3.24	5.13	4.54	35.2
2/4/2025	3.33	3.33	5.33	4.32	36

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/2016	0.0011 (J)	0.0052			
8/30/2016			<0.01		
10/24/2016	0.001 (J)	0.0053 (J)			
10/26/2016			<0.01		
1/25/2017	0.0013 (J)	0.0056	<0.01		
4/10/2017	<0.01	0.0047	<0.01		
6/19/2017	0.0013 (J)		<0.01		
6/20/2017		0.0051			
10/24/2017	0.0012 (J)	0.0056	<0.01		
4/9/2018		0.0071			
4/10/2018	0.0015 (J)		<0.01		
10/16/2018	0.0014 (J)	0.0071	<0.01		
8/20/2019	0.0024	0.0078	0.0017 (J)		
10/7/2019	<0.01	0.0059			
10/8/2019			<0.01		
12/16/2019				<0.01	<0.01
1/14/2020				<0.01	<0.01
2/11/2020				<0.01	0.0048
3/9/2020				<0.01	<0.01
4/6/2020		0.0057			
4/7/2020	<0.01		<0.01	<0.01	<0.01
5/27/2020				<0.01	<0.01
7/15/2020				<0.01	<0.01
8/19/2020	<0.01	0.0063			<0.01
8/20/2020				<0.01	
8/21/2020			<0.01		
9/22/2020				<0.01	<0.01
9/29/2020	<0.01				
9/30/2020		0.0057			<0.01
10/1/2020			<0.01	<0.01	
2/9/2021	0.0015 (J)	0.0059			
2/10/2021			<0.01	<0.01	<0.01
9/7/2021	<0.01				
9/8/2021		0.0059	<0.01		
9/9/2021				<0.01	
9/10/2021					<0.01
2/1/2022	0.0029	0.0054	<0.01		
2/2/2022					<0.01
2/3/2022				<0.01	
9/1/2022	<0.01		<0.01		
9/2/2022		0.00578 (J)			
9/6/2022				<0.01	<0.01
1/31/2023	<0.01		<0.01	<0.01	<0.01
2/1/2023		0.00682 (J)			
8/8/2023	<0.01			<0.01	<0.01
8/9/2023			<0.01		
8/10/2023		0.00684 (J)			
1/23/2024	<0.01	0.00682 (J)			<0.01
1/24/2024			<0.01	<0.01	
8/20/2024	<0.01	0.00598 (J)	<0.01	<0.01	<0.01
2/4/2025	<0.01	0.00667 (J)	<0.01	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/20/2020	<0.01	<0.01			
9/30/2020	<0.01				
10/1/2020		<0.01			
2/10/2021	<0.01				
2/11/2021		<0.01	<0.01	<0.01	
9/9/2021	<0.01			<0.01	
9/10/2021		<0.01	<0.01		
2/2/2022			<0.01		
2/3/2022	<0.01	<0.01		<0.01	
9/2/2022	<0.01	<0.01		<0.01	
9/7/2022			<0.01		
10/20/2022					<0.01
1/31/2023	<0.01	<0.01	<0.01	<0.01	
2/1/2023					<0.01
8/8/2023	<0.01	<0.01	<0.01		<0.01
8/9/2023				<0.01	
1/23/2024			<0.01		<0.01
1/24/2024	<0.01	<0.01		<0.01	
8/20/2024	<0.01	<0.01	<0.01	<0.01	<0.01
2/4/2025	<0.01	<0.01	<0.01	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/2016	<0.001	<0.001			
8/30/2016			0.0018 (J)		
10/24/2016	<0.001	<0.001			
10/26/2016			0.0018 (J)		
1/25/2017	<0.001	0.00076 (J)	0.0017 (J)		
4/10/2017	<0.001	<0.001	0.0016 (J)		
6/19/2017	<0.001		0.0021 (J)		
6/20/2017		<0.001			
10/24/2017	<0.001	<0.001	0.0019 (J)		
4/9/2018		<0.001			
4/10/2018	<0.001		0.0019 (J)		
10/16/2018	<0.001	<0.001	0.0019 (J)		
8/20/2019	0.00011 (J)	0.00015 (J)	0.0023		
10/7/2019	0.00011 (J)	<0.001			
10/8/2019			0.0018		
12/16/2019				0.0023	0.018
1/14/2020				0.0031	0.0072
2/11/2020				0.00056	0.013
3/9/2020				0.00061 (J)	0.015
4/6/2020		0.00039 (J)			
4/7/2020	0.00038 (J)		0.00087	0.0016	0.009
5/27/2020				0.0017 (J)	0.0059
6/24/2020					0.0047
6/25/2020	<0.001	0.00015 (J)	0.00097 (J)	0.0014 (J)	
7/15/2020				0.0017 (J)	0.0027
8/19/2020	<0.001	0.00064 (J)			0.0032
8/20/2020				0.0023 (J)	
8/21/2020			0.00066 (J)		
9/22/2020				0.0036	0.0085
9/29/2020	<0.001				
9/30/2020		0.00031 (J)			0.0055
10/1/2020			0.00082 (J)	0.0052	
2/9/2021	0.00016 (J)	0.00038 (J)			
2/10/2021			0.00063 (J)	0.00072 (J)	0.0015 (J)
9/7/2021	<0.001				
9/8/2021		0.0005 (J)	0.0007 (J)		
9/9/2021				0.0009 (J)	
9/10/2021					0.0015 (J)
2/1/2022	<0.001	<0.001	0.0007 (J)		
2/2/2022					0.001 (J)
2/3/2022				0.00063 (J)	
9/1/2022	<0.001		0.00069 (J)		
9/2/2022		<0.001			
9/6/2022				0.000588 (J)	0.00198
1/31/2023	<0.001		0.000659 (J)	0.000742 (J)	0.00154
2/1/2023		0.000458 (J)			
8/8/2023	<0.001			0.00044 (J)	0.00184
8/9/2023			0.000813 (J)		
8/10/2023		0.000814 (J)			
1/23/2024	<0.001	<0.001			0.00408
1/24/2024			0.00106	<0.001	
8/20/2024	<0.001	<0.001	0.000769 (J)	0.000484 (J)	0.00279

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
2/4/2025	<0.001	0.000334 (J)	0.000632 (J)	0.000489 (J)	0.0023

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
6/24/2020	0.00097 (J)	0.0027			
8/20/2020	0.001 (J)	0.0022 (J)			
9/30/2020	0.001 (J)				
10/1/2020		0.0036			
11/30/2020			0.028		
12/1/2020				0.0054	
2/10/2021	0.00082 (J)				
2/11/2021		0.0028	0.017	0.0061	
9/9/2021	0.00072 (J)			0.0046	
9/10/2021		0.0022 (J)	0.075		
2/2/2022			0.077		
2/3/2022	0.00045 (J)	0.0028		0.0028	
9/2/2022	0.000449 (J)	0.002		0.00292	
9/7/2022			0.0737		
10/20/2022					<0.001
1/31/2023	0.000399 (J)	0.00282	0.0687	0.00321	
2/1/2023					<0.001
8/8/2023	0.00035 (J)	0.00223	0.0605		<0.001
8/9/2023				0.00364	
1/23/2024			0.0597		<0.001
1/24/2024	0.000331 (J)	0.00249		0.00203	
8/20/2024	<0.001	0.00166	0.0702	0.00277	<0.001
2/4/2025	<0.001	0.00185	0.0788	0.00379	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/2016	0.324 (U)	0.508 (U)			
8/30/2016			0.832		
10/24/2016	1.17	1.46			
10/26/2016			1.27		
1/25/2017	0.443 (U)	0.377 (U)	0.549		
4/10/2017	0.483	0.132 (U)	0.556		
6/19/2017	0.478		0.976		
6/20/2017		1.17			
10/24/2017	0.764	0.704	0.504		
4/9/2018		0.539			
4/10/2018	0.3 (U)		0.621		
10/16/2018	0.991	0.354 (U)	0.796		
8/20/2019	0.498	0.53	0.978		
10/7/2019	0.476 (U)	0.621 (U)			
10/8/2019			0.588		
12/16/2019				0.166 (U)	0.229 (U)
1/14/2020				0.869	0.783
2/11/2020				0.0291 (U)	0.229 (U)
3/9/2020				0.626	0.365
4/6/2020		0.072 (U)			
4/7/2020	0.651		0.433 (U)	0.296 (U)	0.567
5/27/2020				0.192 (U)	0.143 (U)
7/15/2020				0.279 (U)	0.97
8/19/2020	0.294 (U)	0.94			0.587 (U)
8/20/2020				0.242 (U)	
8/21/2020			0.472		
9/22/2020				0.0177 (U)	0.884
9/29/2020	0.372 (U)				
9/30/2020		0.679			0.602
10/1/2020			0.496 (U)	0.749	
2/9/2021	0.466 (U)	-0.0396 (U)			
2/10/2021			0.625	0.0408 (U)	0.233 (U)
9/7/2021	0.31 (U)				
9/8/2021		0.44 (U)	1.12		
9/9/2021				0.498	
9/10/2021					0.713
2/1/2022	0.319 (U)	-0.00713 (U)	0.331 (U)		
2/2/2022					0.195 (U)
2/3/2022				0.248 (U)	
9/1/2022	0.913 (U)		1.57 (U)		
9/2/2022		0.783 (U)			
9/6/2022				2.36 (U)	2.58
1/31/2023	2.33		3.25	0.859 (U)	2.2
2/1/2023		2.18			
8/8/2023	1.8			0.363 (U)	1.22 (U)
8/9/2023			2.69		
8/10/2023		1.8			
1/23/2024	1.73	2.5			2.1
1/24/2024			5.34	2.73	
8/20/2024	2.65	0.969 (U)	1.02 (U)	2.1	1.04 (U)
2/4/2025	1.63 (U)	2.01 (U)	0.238 (U)	0.551 (U)	2.26

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/20/2020	0.527	4.13			
9/30/2020	0.249 (U)				
10/1/2020		2.86			
2/10/2021	0.949				
2/11/2021		2.09	5.1	0.285 (U)	
9/9/2021	0.972			0.16 (U)	
9/10/2021		3.4	4.23		
2/2/2022			4.48		
2/3/2022	1.04	2.69		0.51	
9/2/2022	3.41	4.18		1.89 (U)	
9/7/2022			4.29		
10/20/2022					8.42
12/8/2022					1.41 (U)
1/31/2023	4.1	4.3	5.21	3.2	
2/1/2023					0.413 (U)
8/8/2023	1.16 (U)	1.86	4.83		3.92
8/9/2023				0.193 (U)	
1/23/2024			4.65		2.96
1/24/2024	9.3	10.3		2.87	
8/20/2024	2.47	2.98	3.47	0.801 (U)	2.8
2/4/2025	1.28 (U)	2.83	3.05	0.506 (U)	3.75

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/2016	<0.1	<0.1			
8/30/2016			0.099 (J)		
10/24/2016	0.07 (J)	0.04 (J)			
10/26/2016			0.57		
1/25/2017	<0.1	<0.1	0.12 (J)		
4/10/2017	<0.1	<0.1	0.11 (J)		
6/19/2017	<0.1		0.11 (J)		
6/20/2017		<0.1			
10/24/2017	<0.1	<0.1	0.1 (J)		
4/9/2018		<0.1			
4/10/2018	<0.1		0.094 (J)		
10/16/2018	0.083 (J)	<0.1	0.17 (J)		
3/26/2019	0.041 (J)				
3/27/2019		<0.1	0.05 (J)		
8/20/2019	0.045 (J)	0.042 (J)	0.098 (J)		
10/7/2019	0.049 (J)	0.036 (J)			
10/8/2019			0.065 (J)		
12/16/2019				0.18 (J)	0.026 (J)
1/14/2020				0.21	<0.2
2/11/2020				0.13	0.056 (J)
3/9/2020				0.089 (J)	0.064 (J)
4/6/2020		0.059 (J)			
4/7/2020	0.14		0.12	0.18	0.068 (J)
5/27/2020				0.25	0.06 (J)
6/24/2020					0.048 (J)
6/25/2020	0.03 (J)	<0.1	0.041 (J)	0.25	
7/15/2020				0.28	0.04 (J)
8/19/2020	<0.1	<0.1			<0.2
8/20/2020				0.19	
8/21/2020			0.084 (J)		
9/22/2020				0.33	0.049 (J)
9/29/2020	0.051 (J)				
9/30/2020		0.032 (J)			0.045 (J)
10/1/2020			0.098 (J)	0.32	
2/9/2021	0.059 (J)	0.048 (J)			
2/10/2021			0.14	0.41	0.055 (J)
9/7/2021	0.1				
9/8/2021		0.067 (J)	0.16		
9/9/2021				0.48	
9/10/2021					0.035 (J)
2/1/2022	0.076 (J)	0.028 (J)	0.11		
2/2/2022					0.04 (J)
2/3/2022				0.4	
9/1/2022	0.148		0.161		
9/2/2022		0.122			
9/6/2022				0.362	0.056 (J)
1/31/2023	0.108		0.175	0.551	0.0979 (J)
2/1/2023		0.121			
8/8/2023	<0.1			0.283	<0.2
8/9/2023			0.203		
8/10/2023		<0.1			
1/23/2024	0.121	0.113			0.134

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
1/24/2024			0.173	0.391	
8/20/2024	0.0679 (J)	0.0488 (J)	0.124	0.365	0.066 (J)
2/4/2025	0.0704 (J)	0.049 (J)	0.131	0.286	0.28 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
6/24/2020	0.21	0.11			
8/20/2020	0.23	<0.1			
9/30/2020	0.2				
10/1/2020		0.098 (J)			
11/30/2020			0.044 (J)		
12/1/2020				0.14	
2/10/2021	0.21				
2/11/2021		0.12	0.054 (J)	0.24	
9/9/2021	0.21			0.19	
9/10/2021		0.13	0.032 (J)		
2/2/2022			<0.5		
2/3/2022	0.16	0.095 (J)		0.17	
9/2/2022	0.18	0.146		0.206	
9/7/2022			<0.5		
10/20/2022					0.839
1/31/2023	0.22	0.13	0.11	0.263	
2/1/2023					0.938
8/8/2023	0.118	0.0571 (J)	<0.5		0.837
8/9/2023				0.261	
1/23/2024			0.126		0.971
1/24/2024	0.199	0.171		0.222	
8/20/2024	0.169	0.123	0.118 (J)	0.199	0.889
2/4/2025	0.157	0.13	<0.5	0.23	0.956

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
5/5/2009	<0.002				
5/14/2009			<0.002		
5/15/2009		<0.002			
12/5/2009	<0.002	<0.002	<0.002		
6/1/2010	<0.002	<0.002			
6/2/2010			<0.002		
11/11/2010	<0.002	<0.002	<0.002		
5/17/2011	<0.002	<0.002	<0.002		
11/8/2011	<0.002	<0.002	<0.002		
5/16/2012	<0.002	<0.002	<0.002		
11/9/2012		<0.002	<0.002		
11/10/2012	<0.002				
5/14/2013	<0.002	<0.002	<0.002		
11/5/2013	<0.002	<0.002	<0.002		
6/9/2014	<0.002	<0.002	<0.002		
11/18/2014		<0.002	<0.002		
11/19/2014	<0.002				
4/14/2015	<0.002	<0.002	<0.002		
10/29/2015			<0.002		
11/4/2015	<0.002	<0.002			
6/22/2016	<0.002	<0.002			
6/23/2016			<0.002		
8/29/2016	<0.002	<0.002			
8/30/2016			<0.002		
10/24/2016	<0.002	<0.002			
10/26/2016			<0.002		
1/25/2017	<0.002	0.00037 (J)	<0.002		
4/10/2017	<0.002	<0.002	<0.002		
6/19/2017	<0.002		<0.002		
6/20/2017		<0.002			
10/24/2017	<0.002	<0.002	<0.002		
4/9/2018		<0.002			
4/10/2018	<0.002		<0.002		
10/16/2018	<0.002	<0.002	<0.002		
3/26/2019	<0.002				
3/27/2019		<0.002	<0.002		
8/20/2019	<0.002	<0.002	<0.002		
10/7/2019	0.00018 (J)	0.00014 (J)			
10/8/2019			0.00015 (J)		
12/16/2019				<0.002	<0.002
1/14/2020				0.00018 (J)	0.00022 (J)
2/11/2020				0.00026 (J)	<0.002
3/9/2020				<0.002	<0.002
4/6/2020		0.00033 (J)			
4/7/2020	0.00037 (J)		0.00026 (J)	<0.002	0.00014 (J)
5/27/2020				<0.002	<0.002
7/15/2020				<0.002	<0.002
8/19/2020	<0.002	0.00039 (J)			<0.002
8/20/2020				<0.002	
8/21/2020			<0.002		
9/22/2020				<0.002	<0.002
9/29/2020	<0.002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
9/30/2020		0.00022 (J)			<0.002
10/1/2020			<0.002	<0.002	
2/9/2021	<0.002	0.00033 (J)			
2/10/2021			<0.002	<0.002	<0.002
9/7/2021	<0.002				
9/8/2021		0.00024 (J)	<0.002		
9/9/2021				<0.002	
9/10/2021					<0.002
2/1/2022	<0.002	<0.002	<0.002		
2/2/2022					<0.002
2/3/2022				<0.002	
9/1/2022	<0.002		<0.002		
9/2/2022		<0.002			
9/6/2022				<0.002	<0.002
1/31/2023	<0.002		<0.002	<0.002	<0.002
2/1/2023		<0.002			
8/8/2023	<0.002			<0.002	<0.002
8/9/2023			<0.002		
8/10/2023		<0.002			
1/23/2024	<0.002	<0.002			<0.002
1/24/2024			<0.002	<0.002	
8/20/2024	<0.002	<0.002	<0.002	<0.002	<0.002
2/4/2025	<0.002	<0.002	<0.002	<0.002	<0.002

Time Series

Constituent: Lead (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/20/2020	<0.002	<0.002			
9/30/2020	<0.002				
10/1/2020		<0.002			
2/10/2021	<0.002				
2/11/2021		<0.002	0.00013 (J)	<0.002	
9/9/2021	<0.002			<0.002	
9/10/2021		<0.002	<0.002		
2/2/2022			<0.002		
2/3/2022	<0.002	<0.002		<0.002	
9/2/2022	<0.002	<0.002		<0.002	
9/7/2022			<0.002		
10/20/2022					<0.002
1/31/2023	<0.002	<0.002	<0.002	<0.002	
2/1/2023					<0.002
8/8/2023	<0.002	<0.002	<0.002		<0.002
8/9/2023				<0.002	
1/23/2024			<0.002		<0.002
1/24/2024	<0.002	<0.002		<0.002	
8/20/2024	<0.002	<0.002	<0.002	<0.002	<0.002
2/4/2025	<0.002	<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/2016	0.0048 (J)	<0.01			
8/30/2016			0.0092		
10/24/2016	<0.05	<0.01			
10/26/2016			0.0071 (J)		
1/25/2017	0.0052	<0.01	0.0087		
4/10/2017	0.0034 (J)	<0.01	0.0074		
6/19/2017	0.0036 (J)		0.0079		
6/20/2017		<0.01			
10/24/2017	0.0051	<0.01	0.0097		
4/9/2018		0.0021 (J)			
4/10/2018	0.0057		0.012		
10/16/2018	0.0048 (J)	0.0018 (J)	0.01		
8/20/2019	0.0044 (J)	<0.01	0.0098		
10/7/2019	0.013	0.0066			
10/8/2019			0.015		
12/16/2019				0.02	0.027
1/14/2020				0.022	0.034
2/11/2020				0.0078	0.01
3/9/2020				0.013	0.0071
4/6/2020		<0.01			
4/7/2020	0.0053		0.011	0.032	0.012
5/27/2020				0.037	0.017
6/24/2020					0.023
6/25/2020	0.0053	<0.01	0.013	0.043	
7/15/2020				0.042	0.021
8/19/2020	0.0038 (J)	<0.01			0.026
8/20/2020				0.036	
8/21/2020			0.013		
9/22/2020				0.039	0.014
9/29/2020	0.0041 (J)				
9/30/2020		<0.01			0.014
10/1/2020			0.012	0.04	
2/9/2021	0.0038 (J)	<0.01			
2/10/2021			0.012	0.044	0.022
9/7/2021	0.0034 (J)				
9/8/2021		<0.01	0.012		
9/9/2021				0.045	
9/10/2021					0.021
2/1/2022	0.0039 (J)	0.0015 (J)	0.012		
2/2/2022					0.02
2/3/2022				0.052	
9/1/2022	0.00359 (J)		0.0116		
9/2/2022		<0.01			
9/6/2022				0.0578	0.0136
1/31/2023	0.00424 (J)		0.0124	0.0499	0.0284
2/1/2023		<0.01			
8/8/2023	0.00382 (J)			0.0517	0.028
8/9/2023			0.0131		
8/10/2023		<0.01			
1/23/2024	0.0044 (J)	<0.01			0.0125
1/24/2024			0.0131	0.0547	
8/20/2024	0.00376 (J)	<0.01	0.0119	0.0469	0.02

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
2/4/2025	0.00397 (J)	<0.01	0.0123	0.0428	0.0212

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
1/14/2020	0.009	0.086			
2/24/2020		0.19			
2/26/2020	0.0046 (J)				
6/24/2020	0.0084	0.018			
8/20/2020	0.0066	0.036			
9/30/2020	0.0091				
10/1/2020		0.019			
11/30/2020			0.061		
12/1/2020				0.0044 (J)	
2/10/2021	0.0097				
2/11/2021		0.021	0.061	0.0055	
9/9/2021	0.0095			0.0062	
9/10/2021		0.025	0.06		
2/2/2022			0.06		
2/3/2022	0.0099	0.021		0.0063	
9/2/2022	0.0097 (J)	0.0232		0.00654 (J)	
9/7/2022			0.0634		
10/20/2022					0.00631 (J)
1/31/2023	0.0099 (J)	0.0202	0.068	0.00659 (J)	
2/1/2023					0.00463 (J)
8/8/2023	0.00909 (J)	0.0193	0.0577		0.00907 (J)
8/9/2023				0.00637 (J)	
1/23/2024			0.0779		0.00862 (J)
1/24/2024	0.0106	0.0172		0.00669 (J)	
8/20/2024	0.00934 (J)	0.0145	0.0585	0.00586 (J)	0.00958 (J)
2/4/2025	0.00952 (J)	0.0172	0.0636	0.00667 (J)	0.00951 (J)

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/2016	<0.0002	<0.0002			
8/30/2016			<0.0002		
10/24/2016	<0.0002	<0.0002			
10/26/2016			<0.0002		
1/25/2017	7.7E-05 (J)	7.2E-05 (J)	7.3E-05 (J)		
4/10/2017	<0.0002	<0.0002	<0.0002		
6/19/2017	<0.0002		<0.0002		
6/20/2017		<0.0002			
10/24/2017	<0.0002	<0.0002	<0.0002		
4/9/2018		<0.0002			
4/10/2018	<0.0002		<0.0002		
10/16/2018	<0.0002	<0.0002	<0.0002		
8/20/2019	<0.0002	<0.0002	<0.0002		
12/16/2019				<0.0002	<0.0002
1/14/2020				<0.0002	<0.0002
2/11/2020				<0.0002	<0.0002
3/9/2020				<0.0002	<0.0002
5/27/2020				<0.0002	<0.0002
7/15/2020				<0.0002	<0.0002
8/19/2020	<0.0002	<0.0002			<0.0002
8/20/2020				<0.0002	
8/21/2020			<0.0002		
9/22/2020				<0.0002	<0.0002
10/1/2020				<0.0002	
9/7/2021	<0.0002				
9/8/2021		<0.0002	<0.0002		
9/9/2021				<0.0002	
9/10/2021					<0.0002
2/1/2022	<0.0002	<0.0002	<0.0002		
2/2/2022					<0.0002
2/3/2022				<0.0002	
9/1/2022	<0.0002		<0.0002		
9/2/2022		<0.0002			
9/6/2022				<0.0002	<0.0002
1/31/2023	<0.0002		<0.0002	<0.0002	<0.0002
2/1/2023		<0.0002			
8/8/2023	<0.0002			<0.0002	<0.0002
8/9/2023			<0.0002		
8/10/2023		<0.0002			
1/23/2024	<0.0002	<0.0002			0.000372
1/24/2024			<0.0002	<0.0002	
8/20/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/4/2025	<0.0002	<0.0002	<0.0002	<0.0002	8E-05 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/20/2020	<0.0002	<0.0002			
9/9/2021	<0.0002			<0.0002	
9/10/2021		<0.0002	<0.0002		
2/2/2022			<0.0002		
2/3/2022	<0.0002	<0.0002		<0.0002	
9/2/2022	<0.0002	<0.0002		<0.0002	
9/7/2022			<0.0002		
10/20/2022					<0.0002
1/31/2023	<0.0002	<0.0002	<0.0002	<0.0002	
2/1/2023					<0.0002
8/8/2023	<0.0002	<0.0002	<0.0002		<0.0002
8/9/2023				<0.0002	
1/23/2024			<0.0002		<0.0002
1/24/2024	<0.0002	<0.0002		<0.0002	
8/20/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/4/2025	<0.0002	<0.0002	0.000113 (J)	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/2016	<0.015	<0.001			
8/30/2016			<0.001		
10/24/2016	<0.015	<0.001			
10/26/2016			<0.001		
1/25/2017	<0.015	<0.001	<0.001		
4/10/2017	<0.015	<0.001	<0.001		
6/19/2017	<0.015		<0.001		
6/20/2017		<0.001			
10/24/2017	<0.015	<0.001	<0.001		
4/9/2018		<0.001			
4/10/2018	0.00096 (J)		<0.001		
10/16/2018	<0.015	<0.001	<0.001		
8/20/2019	<0.015	<0.001	<0.001		
12/16/2019				0.025	0.0018 (J)
1/14/2020				0.032	0.0012 (J)
2/11/2020				0.021	0.00093 (J)
3/9/2020				0.013 (J)	0.00067 (J)
5/27/2020				0.048	<0.015
6/24/2020					<0.015
6/25/2020	<0.015	<0.001	<0.001	0.055	
7/15/2020				0.055	<0.015
8/19/2020	<0.015	<0.001			<0.015
8/20/2020				0.061	
8/21/2020			<0.001		
9/22/2020				0.053	<0.015
9/29/2020	<0.015				
9/30/2020		<0.001			<0.015
10/1/2020			<0.001	0.064	
2/9/2021	<0.015	<0.001			
2/10/2021			<0.001	0.063	<0.015
9/7/2021	<0.015				
9/8/2021		<0.001	<0.001		
9/9/2021				0.071	
9/10/2021					<0.015
2/1/2022	0.00067 (J)	<0.001	<0.001		
2/2/2022					<0.015
2/3/2022				0.065	
9/1/2022	0.000501 (J)		<0.001		
9/2/2022		<0.001			
9/6/2022				0.067	0.000203 (J)
1/31/2023	0.000395 (J)		<0.001	0.0671	0.000496 (J)
2/1/2023		<0.001			
8/8/2023	0.000421 (J)			0.0618	0.000514 (J)
8/9/2023			<0.001		
8/10/2023		<0.001			
1/23/2024	0.00048 (J)	<0.001			0.00025 (J)
1/24/2024			<0.001	0.0651	
8/20/2024	0.000375 (J)	<0.001	<0.001	0.074	0.000406 (J)
2/4/2025	0.000408 (J)	<0.001	<0.001	0.0548	0.000397 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
6/24/2020	0.0051 (J)	<0.015			
8/20/2020	0.0076 (J)	0.0013 (J)			
9/30/2020	0.0054 (J)				
10/1/2020		<0.015			
11/30/2020			0.0012 (J)		
12/1/2020				0.056	
2/10/2021	0.0043 (J)				
2/11/2021		<0.015	<0.001	0.038	
9/9/2021	0.0059 (J)			0.12	
9/10/2021		<0.015	<0.001		
2/2/2022			<0.001		
2/3/2022	0.0049 (J)	<0.015		0.16	
9/2/2022	0.00785	0.000603 (J)		0.175	
9/7/2022			0.000379 (J)		
10/20/2022					0.0205
1/31/2023	0.00974	0.000491 (J)	<0.001	0.188	
2/1/2023					0.014
8/8/2023	0.00667	0.0011	<0.001		0.0109
8/9/2023				0.203	
1/23/2024			<0.001		0.00683
1/24/2024	0.00937	0.00101		0.196	
8/20/2024	0.00873	0.000585 (J)	0.000257 (J)	0.195	0.00237
2/4/2025	0.0127	0.000623 (J)	0.000321 (J)	0.189	0.00267

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (SU) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
6/22/2016	5.86	5.5			
6/23/2016			6.19		
8/29/2016	6.75 (O)	5.64			
8/30/2016			6.38		
10/24/2016	5.81	5.6			
10/26/2016			6.23		
1/25/2017	5.91	5.65	6.15		
4/10/2017	5.74	5.42	5.99		
6/19/2017	5.54		5.95		
6/20/2017		5.59			
10/24/2017	5.82	5.58	6.02		
4/9/2018		5.78			
4/10/2018	5.92		6.12		
10/16/2018	5.94	5.69	6.12		
3/26/2019	5.85				
3/27/2019		5.96	6.2		
8/20/2019	5.9	5.57	6.08		
10/7/2019	5.89	5.65			
10/8/2019			6.11		
12/16/2019				6.41 (D)	5.74 (D)
1/14/2020				6.62	5.91 (D)
2/11/2020				6.41	5.9
3/9/2020				6.32	5.97
4/6/2020		5.53			
4/7/2020	5.72		5.96	6.4	5.84
5/27/2020				6.3	5.69 (D)
6/24/2020					5.82
6/25/2020	5.8	5.61	5.98	6.37	
7/15/2020				6.36	5.58
8/19/2020	6.25	6.16			6.21
8/20/2020				6.33	
8/21/2020			5.89		
9/22/2020				6.29	5.77
9/29/2020	5.83				
9/30/2020		5.65			5.81
10/1/2020			5.99	6.38	
2/9/2021	5.97	5.66			
2/10/2021			6.01	6.37	5.68
9/7/2021	5.85				
9/8/2021		5.59	5.94		
9/9/2021				6.35	
9/10/2021					5.62
2/1/2022	5.52	5.14	5.65		
2/2/2022					5.7
2/3/2022				6.44	
9/1/2022	5.88		5.97		
9/2/2022		5.68			
9/6/2022				6.41	5.88
1/31/2023	5.86		6.07	6.46	5.61
2/1/2023		5.7			
8/8/2023	5.81			6.33	5.61
8/9/2023			6.6		

Time Series

Constituent: pH, Field (SU) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/10/2023		5.55			
1/23/2024	5.93	5.77			5.88
1/24/2024			6.03	6.43	
8/20/2024	5.93	5.83	6.2	6.34	5.76
2/4/2025	5.86	5.71	6.02	6.42	5.73

Time Series

Constituent: pH, Field (SU) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
1/14/2020	6.07	6.12			
2/24/2020		5.06			
2/26/2020	6.15				
6/24/2020	6.31	6.19			
8/20/2020	6.09	5.99			
9/30/2020	6.16				
10/1/2020		5.96			
11/30/2020			6		
12/1/2020				7.05	
2/10/2021	6.16				
2/11/2021		6	5.67	6.95	
9/9/2021	6.1			6.56	
9/10/2021		6.01	5.7		
2/2/2022			5.58		
2/3/2022	6.11	6.01		6.59	
9/2/2022	6.04	6		6.44	
9/7/2022			5.57		
10/20/2022					7.8
12/8/2022					8.02
1/31/2023	6.34	6.18	5.54	6.44	
2/1/2023					7.95
8/8/2023	6.38	6.01	5.47		8.13
8/9/2023				8.71	
1/23/2024			5.57		7.92
1/24/2024	6.12	6.1		6.47	
8/20/2024	6.13	6.08	5.62	6.47	7.95
2/4/2025	6.08	6.03	5.57	6.44	7.88

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
5/5/2009	0.0043				
5/14/2009			0.0058 (O)		
5/15/2009		0.007 (O)			
12/5/2009	<0.005	<0.005	<0.005		
6/1/2010	<0.005	<0.005			
6/2/2010			<0.005		
11/11/2010	<0.005	<0.005	<0.005		
5/17/2011	<0.005	<0.005	<0.005		
11/8/2011	<0.005	<0.005	<0.005		
5/16/2012	<0.005	0.0024 (J)	<0.005		
11/9/2012		<0.005	<0.005		
11/10/2012	<0.005				
5/14/2013	<0.005	<0.005	<0.005		
11/5/2013	<0.005	<0.005	<0.005		
6/9/2014	<0.005	<0.005	<0.005		
11/18/2014		<0.005	<0.005		
11/19/2014	<0.005				
4/14/2015	<0.005	<0.005	<0.005		
10/29/2015			<0.005		
11/4/2015	<0.005	<0.005			
6/22/2016	0.00025 (J)	0.0019			
6/23/2016			<0.005		
8/29/2016	0.0004 (J)	0.0019			
8/30/2016			<0.005		
10/24/2016	<0.005	0.0023 (J)			
10/26/2016			<0.005		
1/25/2017	<0.005	0.0015	<0.005		
4/10/2017	<0.005	0.0011 (J)	<0.005		
6/19/2017	0.00025 (J)		<0.005		
6/20/2017		0.0016			
10/24/2017	<0.005	0.0012 (J)	<0.005		
4/9/2018		0.0012 (J)			
4/10/2018	0.00074 (J)		<0.005		
10/16/2018	<0.005	0.0015	<0.005		
3/26/2019	<0.005				
3/27/2019		0.0015	<0.005		
8/20/2019	<0.005	0.0015 (J)	<0.005		
10/7/2019	<0.005	0.0016 (J)			
10/8/2019			<0.005		
12/16/2019				<0.005	<0.005
1/14/2020				<0.005	<0.005
2/11/2020				<0.005	<0.005
3/9/2020				<0.005	<0.005
4/6/2020		0.0017 (J)			
4/7/2020	<0.005		<0.005	<0.005	<0.005
5/27/2020				<0.005	<0.005
7/15/2020				<0.005	<0.005
8/19/2020	<0.005	0.0015 (J)			<0.005
8/20/2020				<0.005	
8/21/2020			<0.005		
9/22/2020				<0.005	<0.005
9/29/2020	<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
9/30/2020		0.0016 (J)			<0.005
10/1/2020			<0.005	<0.005	
2/9/2021	<0.005	0.0016 (J)			
2/10/2021			<0.005	<0.005	<0.005
9/7/2021	<0.005				
9/8/2021		<0.005	<0.005		
9/9/2021				<0.005	
9/10/2021					0.002 (J)
2/1/2022	<0.005	0.0015 (J)	<0.005		
2/2/2022					<0.005
2/3/2022				<0.005	
9/1/2022	<0.005		<0.005		
9/2/2022		<0.005			
9/6/2022				<0.005	<0.005
1/31/2023	<0.005		<0.005	<0.005	<0.005
2/1/2023		<0.005			
8/8/2023	<0.005			<0.005	<0.005
8/9/2023			<0.005		
8/10/2023		<0.005			
1/23/2024	<0.005	<0.005			<0.005
1/24/2024			<0.005	<0.005	
8/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005
2/4/2025	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/20/2020	<0.005	<0.005			
9/30/2020	<0.005				
10/1/2020		<0.005			
2/10/2021	<0.005				
2/11/2021		<0.005	<0.005	<0.005	
9/9/2021	<0.005			<0.005	
9/10/2021		<0.005	<0.005		
2/2/2022			<0.005		
2/3/2022	<0.005	<0.005		<0.005	
9/2/2022	<0.005	<0.005		<0.005	
9/7/2022			<0.005		
10/20/2022					<0.005
1/31/2023	<0.005	<0.005	<0.005	<0.005	
2/1/2023					<0.005
8/8/2023	<0.005	<0.005	<0.005		<0.005
8/9/2023				<0.005	
1/23/2024			<0.005		<0.005
1/24/2024	<0.005	<0.005		<0.005	
8/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005
2/4/2025	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Silver (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
5/5/2009	<0.001				
5/14/2009			<0.001		
5/15/2009		<0.001			
12/5/2009	0.00075	0.00043	0.001		
6/1/2010	<0.001	<0.001			
6/2/2010			<0.001		
11/11/2010	<0.001	<0.001	<0.001		
5/17/2011	<0.001	<0.001	<0.001		
11/8/2011	<0.001	<0.001	<0.001		
5/16/2012	<0.001	<0.001	<0.001		
11/9/2012		<0.001	<0.001		
11/10/2012	<0.001				
5/14/2013	<0.001	<0.001	<0.001		
11/5/2013	<0.001	<0.001	<0.001		
6/9/2014	<0.001	<0.001	<0.001		
11/18/2014		<0.001	<0.001		
11/19/2014	<0.001				
4/14/2015	<0.001	<0.001	<0.001		
10/29/2015			<0.001		
11/4/2015	<0.001	<0.001			
6/22/2016	<0.001	<0.001			
6/23/2016			<0.001		
10/24/2016	<0.001	<0.001			
10/26/2016			<0.001		
4/10/2017	<0.001	<0.001	<0.001		
10/24/2017	<0.001	<0.001	<0.001		
4/9/2018		<0.001			
4/10/2018	<0.001		<0.001		
10/16/2018	<0.001	<0.001	<0.001		
3/26/2019	<0.001				
3/27/2019		<0.001	<0.001		
10/7/2019	0.00056 (J)	0.00031 (J)			
10/8/2019			0.00043 (J)		
4/6/2020		<0.001			
4/7/2020	0.00018 (J)		<0.001	<0.001	<0.001
9/29/2020	<0.001				
9/30/2020		<0.001			<0.001
10/1/2020			<0.001	<0.001	
2/9/2021	<0.001	<0.001			
2/10/2021			<0.001	<0.001	<0.001
9/7/2021	<0.001				
9/8/2021		<0.001	<0.001		
9/9/2021				<0.001	
9/10/2021					<0.001
2/1/2022	<0.001	<0.001	<0.001		
2/2/2022					<0.001
2/3/2022				<0.001	
9/1/2022	<0.001		<0.001		
9/2/2022		<0.001			
9/6/2022				<0.001	<0.001
1/31/2023	<0.001		<0.001	<0.001	<0.001
2/1/2023		<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Silver (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/8/2023	<0.001			<0.001	<0.001
8/9/2023			<0.001		
8/10/2023		<0.001			
1/23/2024	<0.001	<0.001			<0.001
1/24/2024			<0.001	<0.001	
8/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001
2/4/2025	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Silver (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
9/30/2020	<0.001				
10/1/2020		<0.001			
2/10/2021	<0.001				
2/11/2021		<0.001	<0.001	<0.001	
9/9/2021	<0.001			<0.001	
9/10/2021		<0.001	<0.001		
2/2/2022			<0.001		
2/3/2022	<0.001	<0.001		<0.001	
9/2/2022	<0.001	<0.001		<0.001	
9/7/2022			<0.001		
10/20/2022					<0.001
1/31/2023	<0.001	<0.001	<0.001	<0.001	
2/1/2023					<0.001
8/8/2023	<0.001	<0.001	<0.001		<0.001
8/9/2023				<0.001	
1/23/2024			<0.001		<0.001
1/24/2024	<0.001	<0.001		<0.001	
8/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001
2/4/2025	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
5/5/2009	15.9				
5/14/2009			129		
5/15/2009		41.3 (O)			
12/5/2009	15.1	16.2	136		
6/1/2010	12.7	18.2			
6/2/2010			138		
11/11/2010	12.2	17	131		
5/17/2011	11.2	16	132		
11/8/2011	11.3	21	138		
5/16/2012	9.38	17.7	132		
11/9/2012		20	123		
11/10/2012	9.07				
5/14/2013	8.74	19.5	129		
11/5/2013	9.12	18.3	122		
6/9/2014	8.61	18.6	131		
4/14/2015	8.45	18.8	128		
10/29/2015			134		
11/4/2015	9.01	17.4			
6/22/2016	9.3	18			
6/23/2016			150		
8/29/2016	8.7	18			
8/30/2016			140		
10/24/2016	9.3	18			
10/26/2016			160		
1/25/2017	8.8	19	150		
4/10/2017	7.8	16	140		
6/19/2017	8.6		160		
6/20/2017		18			
10/24/2017	9.1	19	160		
4/9/2018		18			
4/10/2018	7.9		170		
10/16/2018	8.2	18	170		
3/26/2019	6.1				
3/27/2019		15	170		
10/7/2019	7.4	17			
10/8/2019			170		
12/16/2019				66	770
1/14/2020				68	930
2/11/2020				18	660
3/9/2020				49	630
4/6/2020		15			
4/7/2020	8.4		180	58	710
5/27/2020				65	720
6/24/2020					810
6/25/2020	9.8	16	210	77	
7/15/2020				78	820
8/19/2020					1000
8/20/2020				69	
9/22/2020				68	720
9/29/2020	8.4				
9/30/2020		15			650
10/1/2020			210	64	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
2/9/2021	10	16			
2/10/2021			220	67	750
9/7/2021	9.9				
9/8/2021		16	230		
9/9/2021				72	
9/10/2021					760
2/1/2022	10	18	230		
2/2/2022					720
2/3/2022				64	
9/1/2022	8.38		221		
9/2/2022		18.5			
9/6/2022				65.3	667
1/31/2023	7.55		260	55.5	751
2/1/2023		19.3			
8/8/2023	8.29			69.8	719
8/9/2023			214		
8/10/2023		18.5			
1/23/2024	6.98	17.1			567
1/24/2024			219	78.4	
8/20/2024	7.07	16.4	219	80.1	674
2/4/2025	8	16.3	216	77.6	656

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
6/24/2020	250	290			
9/30/2020	230				
10/1/2020		270			
11/30/2020			990		
12/1/2020				120	
2/10/2021	260				
2/11/2021		290	980	110	
9/9/2021	210			100	
9/10/2021		440	1100		
2/2/2022			1100		
2/3/2022	250	310		110	
9/2/2022	223	315		108	
9/7/2022			1050		
10/20/2022					474
1/31/2023	218	262	1020	105	
2/1/2023					417
8/8/2023	223	243	1060		477
8/9/2023				114	
1/23/2024			1000		415
1/24/2024	219	214		106	
8/20/2024	211	232	1010	109	416
2/4/2025	204	249	1040	109	418

Time Series

Constituent: TDS (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/2016	130	100			
8/30/2016			350		
10/24/2016	108	91			
10/26/2016			357		
1/25/2017	120	90	320		
4/10/2017	130	110	380		
6/19/2017	86		370		
6/20/2017		72			
10/24/2017	120	110	420		
4/9/2018		100			
4/10/2018	120		370		
10/16/2018	140	110	380		
3/26/2019	170				
3/27/2019		100	400		
10/7/2019	150	87			
10/8/2019			420		
12/16/2019				320	1300
1/14/2020				340	1400
2/11/2020				110	1300
3/9/2020				210	1200
4/6/2020		90			
4/7/2020	120		460	290	1300
5/27/2020				320	1300
7/15/2020				310	1400
8/19/2020					1400
8/20/2020				310	
9/22/2020				310	1300
9/29/2020	110				
9/30/2020		82			1200
10/1/2020			500	290	
2/9/2021	110	100			
2/10/2021			510	290	1200
9/7/2021	110				
9/8/2021		120	560		
9/9/2021				320	
9/10/2021					1300
2/1/2022	91	100	520		
2/2/2022					1200
2/3/2022				320	
9/1/2022	81		537		
9/2/2022		101			
9/6/2022				305	1180
1/31/2023	95		526	299	1320
2/1/2023		90			
8/8/2023	62			294	1220
8/9/2023			520		
8/10/2023		105			
1/23/2024	82	92			1110
1/24/2024			541	342	
8/20/2024	91	113	520	328	1180
2/4/2025	78	104	534	320	1140

Time Series

Constituent: TDS (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
9/30/2020	520				
10/1/2020		530			
11/30/2020			1600		
12/1/2020				420	
2/10/2021	560				
2/11/2021		590	1600	380	
9/9/2021	560			260	
9/10/2021		870	1700		
2/2/2022			1700		
2/3/2022	560	590		410	
9/2/2022	546	664		385	
9/7/2022			1610		
10/20/2022					896
1/31/2023	527	591	1630	392	
2/1/2023					857
8/8/2023	524	548	1620		852
8/9/2023				436	
1/23/2024			1670		750
1/24/2024	530	529		419	
8/20/2024	538	564	1590	422	670
2/4/2025	496	566	1670	405	758

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/2016	<0.002	<0.002			
8/30/2016			<0.002		
10/24/2016	<0.002	<0.002			
10/26/2016			<0.002		
1/25/2017	<0.002	<0.002	<0.002		
4/10/2017	<0.002	<0.002	<0.002		
6/19/2017	<0.002		<0.002		
6/20/2017		<0.002			
10/24/2017	<0.002	<0.002	<0.002		
4/9/2018		<0.002			
4/10/2018	<0.002		<0.002		
10/16/2018	<0.002	<0.002	<0.002		
8/20/2019	<0.002	<0.002	<0.002		
12/16/2019				<0.002	0.00078 (J)
1/14/2020				<0.002	0.00027 (J)
2/11/2020				0.00028 (J)	0.00034 (J)
3/9/2020				0.00026 (J)	0.00035 (J)
5/27/2020				0.00026 (J)	<0.002
7/15/2020				<0.002	<0.002
8/19/2020	<0.002	<0.002			<0.002
8/20/2020				<0.002	
8/21/2020			<0.002		
9/22/2020				<0.002	<0.002
9/7/2021	<0.002				
9/8/2021		<0.002	<0.002		
9/9/2021				<0.002	
9/10/2021					<0.002
2/1/2022	0.00057 (J)	<0.002	<0.002		
2/2/2022					<0.002
2/3/2022				<0.002	
9/1/2022	<0.002		<0.002		
9/2/2022		<0.002			
9/6/2022				<0.002	<0.002
1/31/2023	<0.002		<0.002	<0.002	<0.002
2/1/2023		<0.002			
8/8/2023	<0.002			<0.002	<0.002
8/9/2023			<0.002		
8/10/2023		<0.002			
1/23/2024	<0.002	<0.002			<0.002
1/24/2024			<0.002	<0.002	
8/20/2024	<0.002	<0.002	<0.002	<0.002	<0.002
2/4/2025	<0.002	<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/21/2025 7:58 AM View: Descriptive

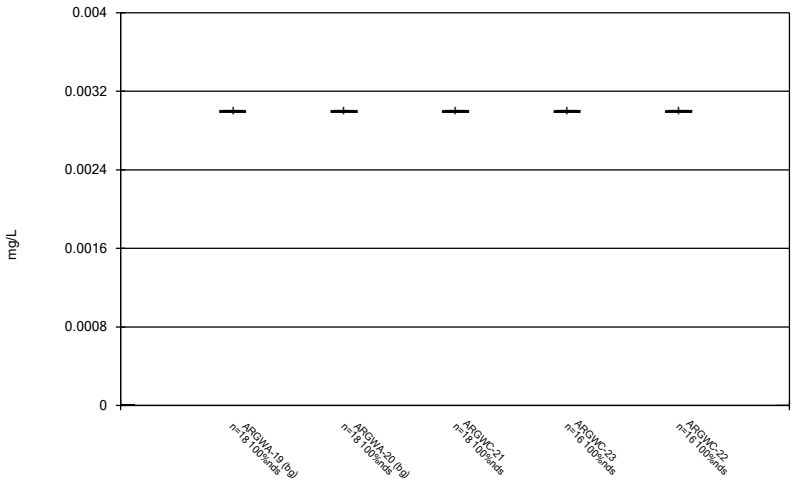
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/20/2020	<0.002	<0.002			
9/9/2021	<0.002			<0.002	
9/10/2021		<0.002	<0.002		
2/2/2022			<0.002		
2/3/2022	<0.002	<0.002		<0.002	
9/2/2022	<0.002	<0.002		<0.002	
9/7/2022			<0.002		
10/20/2022					<0.002
1/31/2023	<0.002	<0.002	<0.002	<0.002	
2/1/2023					<0.002
8/8/2023	<0.002	<0.002	<0.002		<0.002
8/9/2023				<0.002	
1/23/2024			<0.002		<0.002
1/24/2024	<0.002	<0.002		<0.002	
8/20/2024	<0.002	<0.002	<0.002	<0.002	<0.002
2/4/2025	<0.002	<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

FIGURE B.

Box & Whiskers Plot



Constituent: Antimony Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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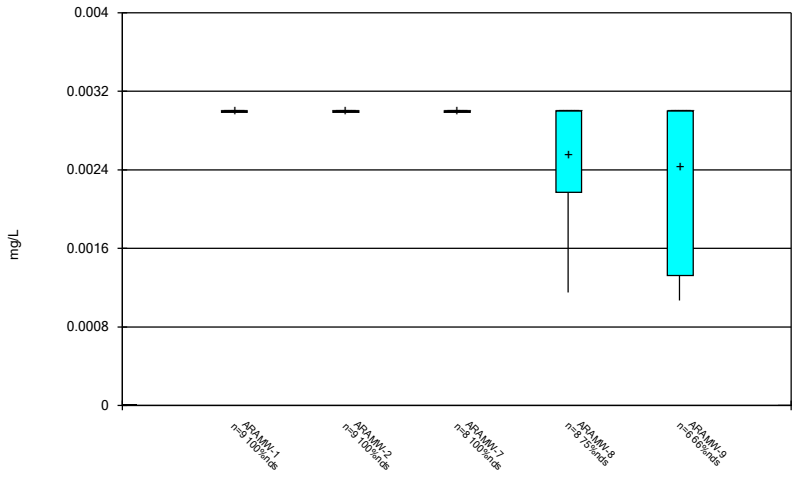
Box & Whiskers Plot



Constituent: Antimony Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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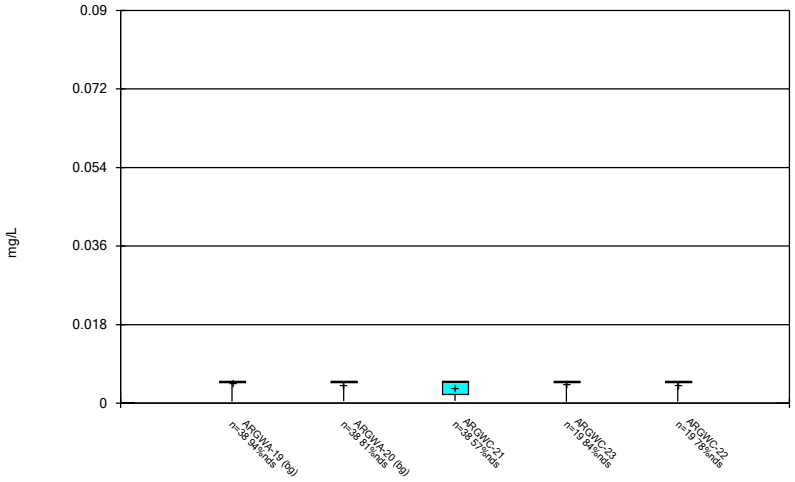
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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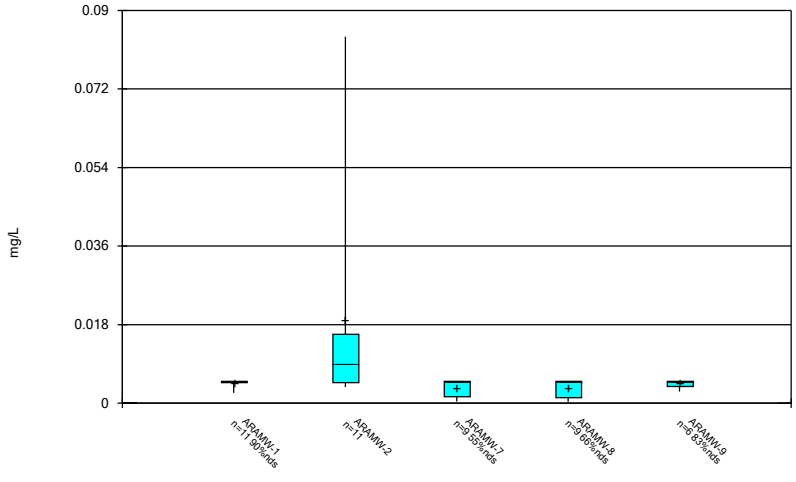
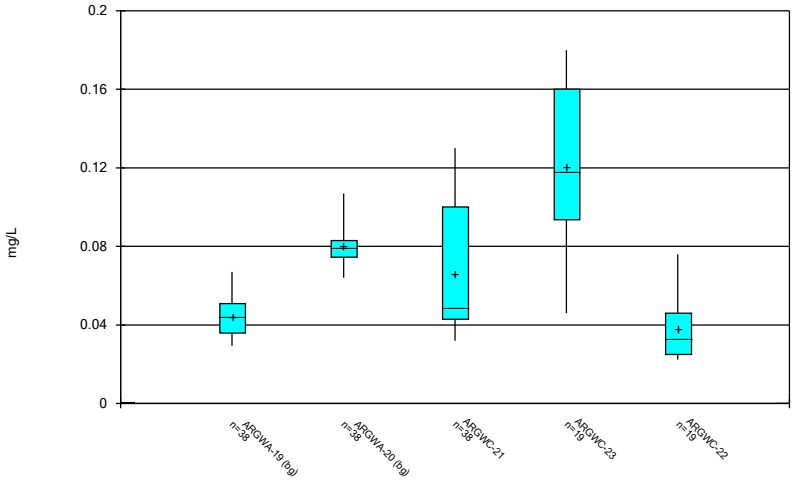
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



Constituent: Barium Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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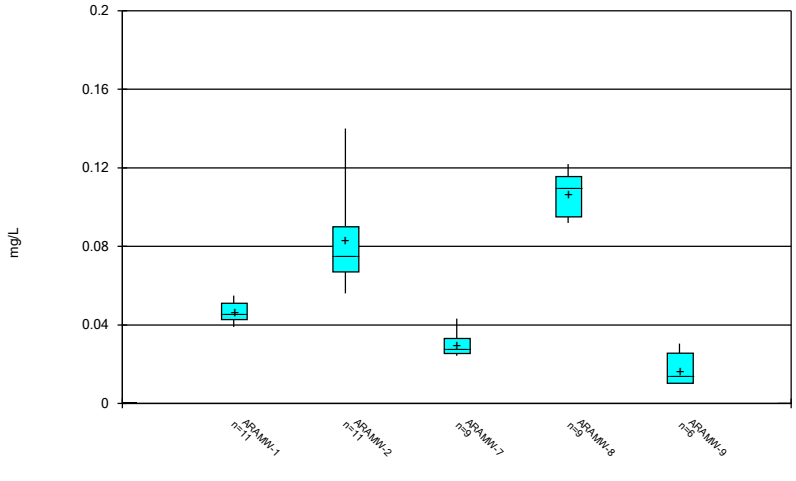
Box & Whiskers Plot



Constituent: Barium Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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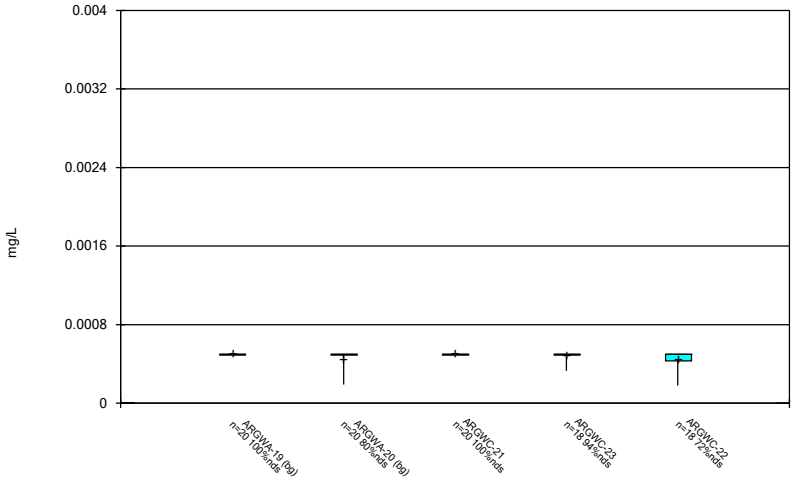
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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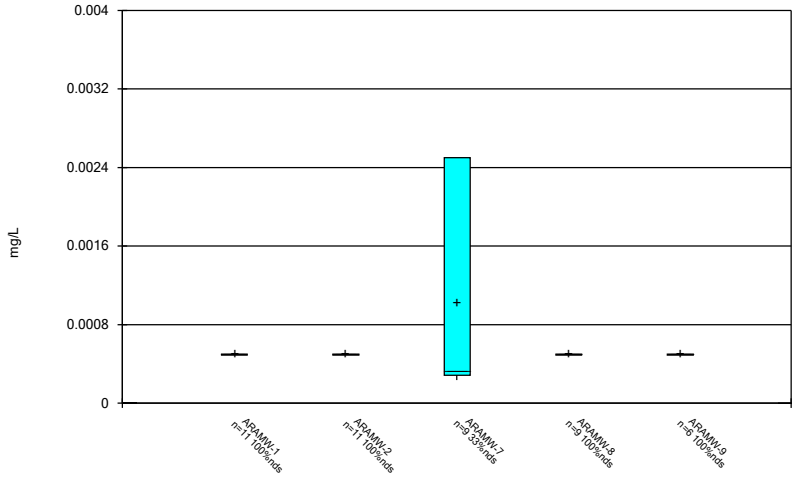
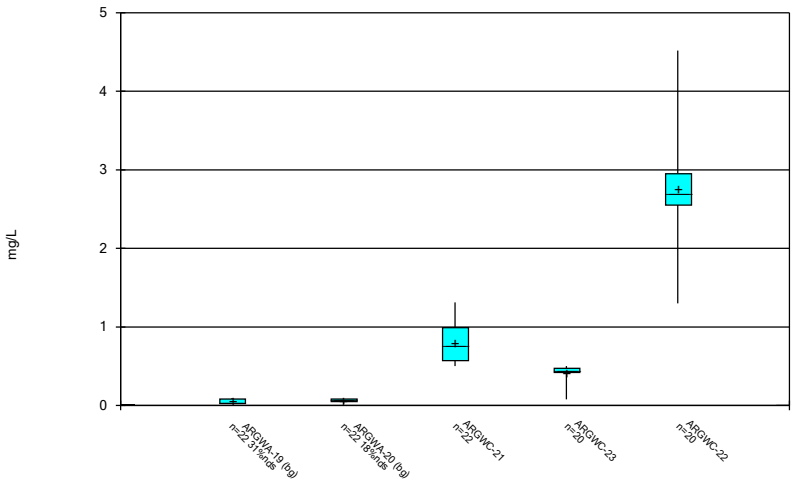
Box & Whiskers Plot



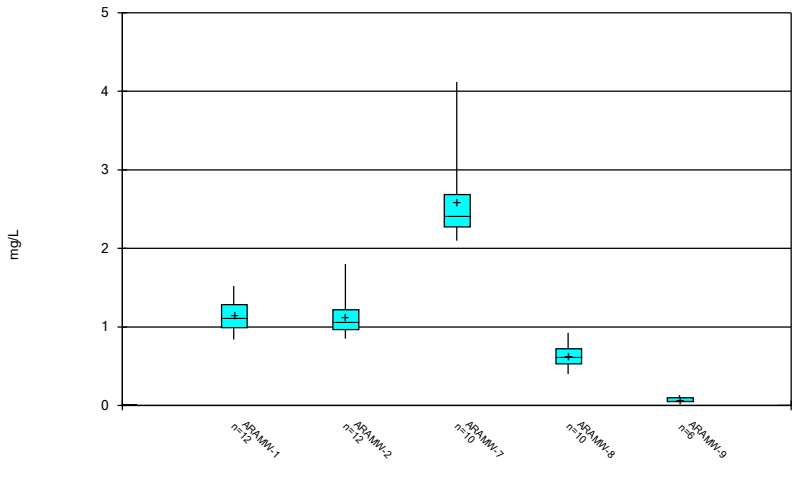
Constituent: Beryllium Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



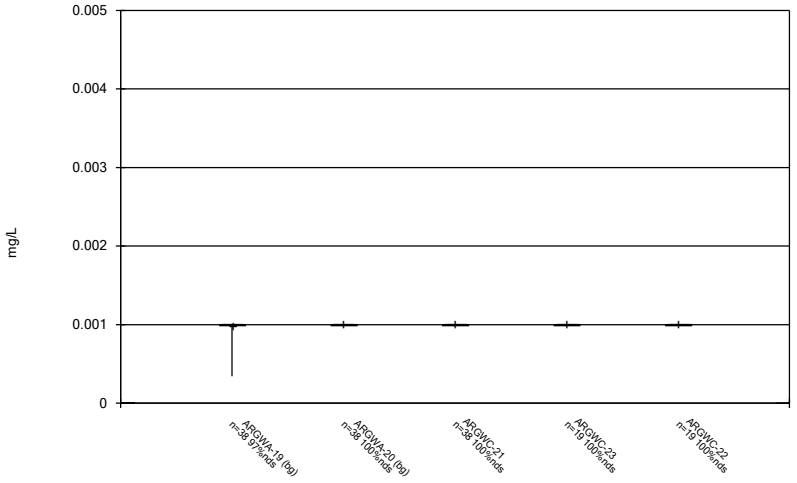
Constituent: Boron Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



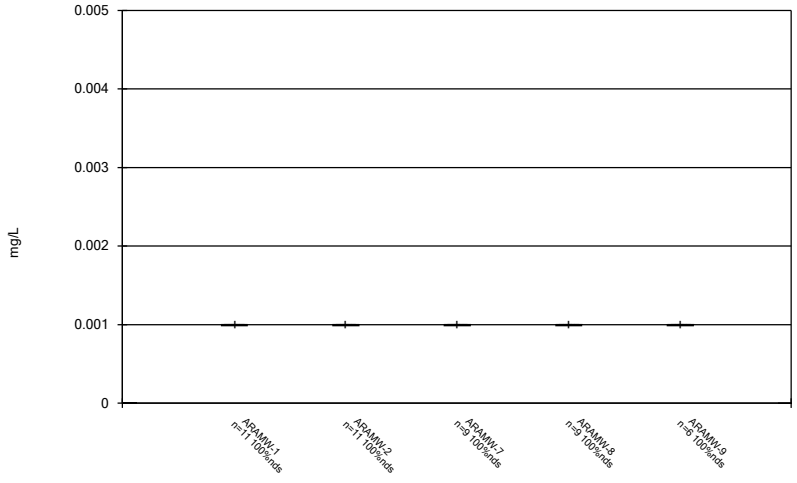
Constituent: Boron Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



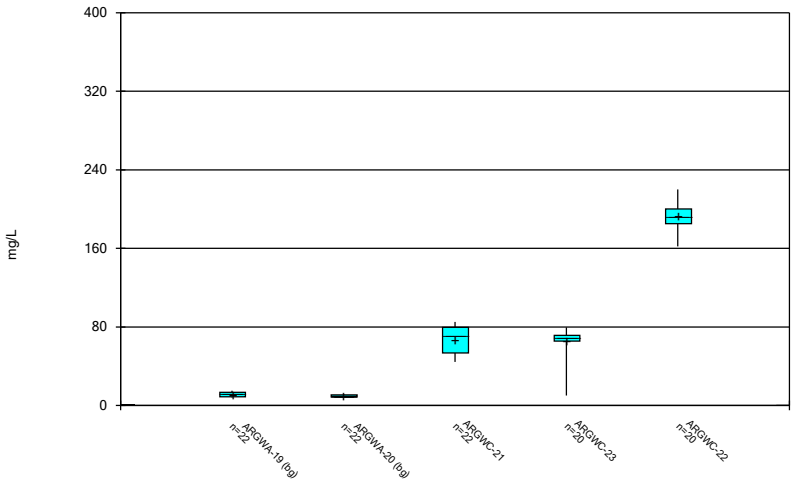
Constituent: Cadmium Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



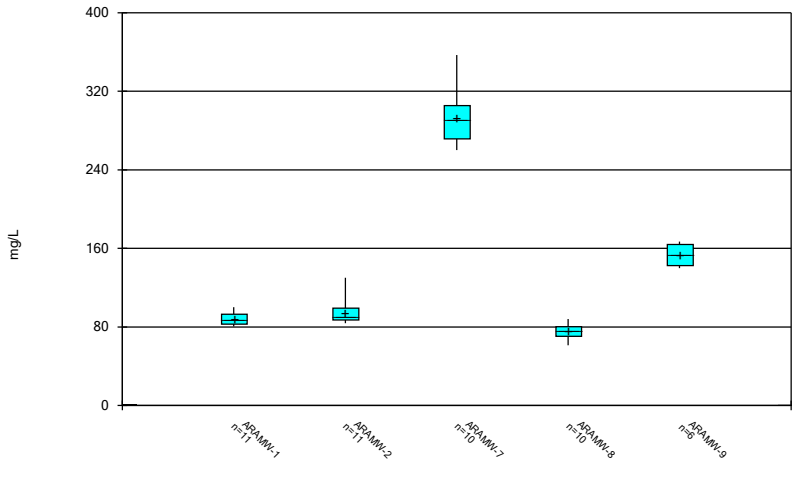
Constituent: Cadmium Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



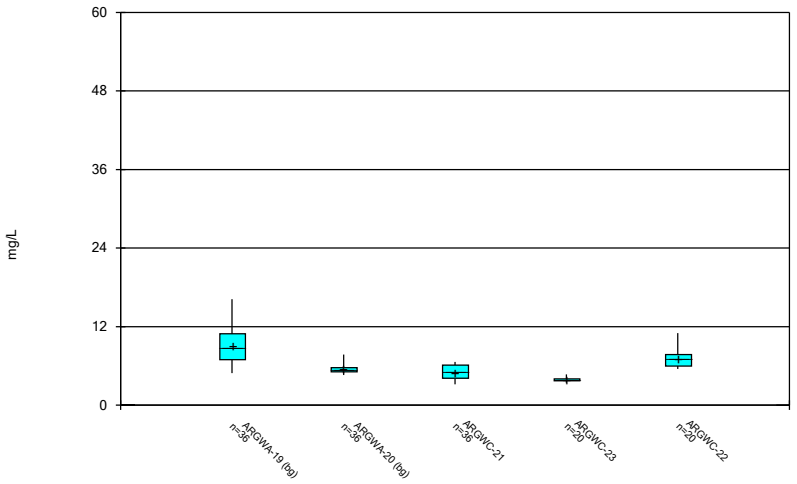
Constituent: Calcium Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



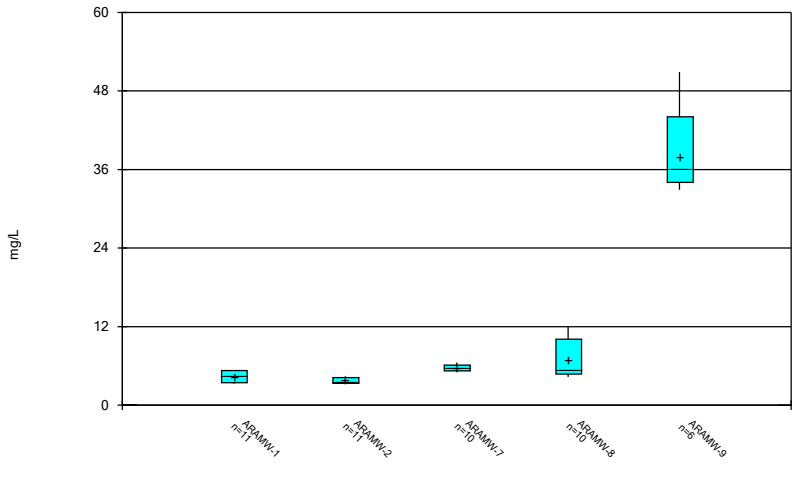
Constituent: Calcium Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



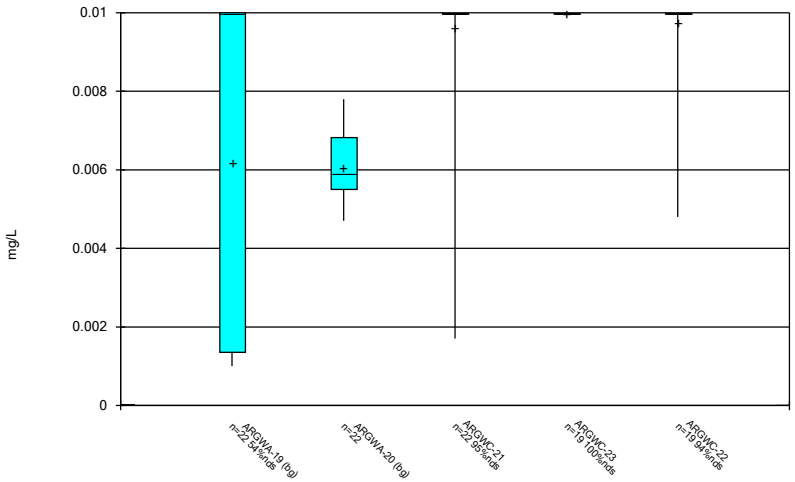
Constituent: Chloride Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



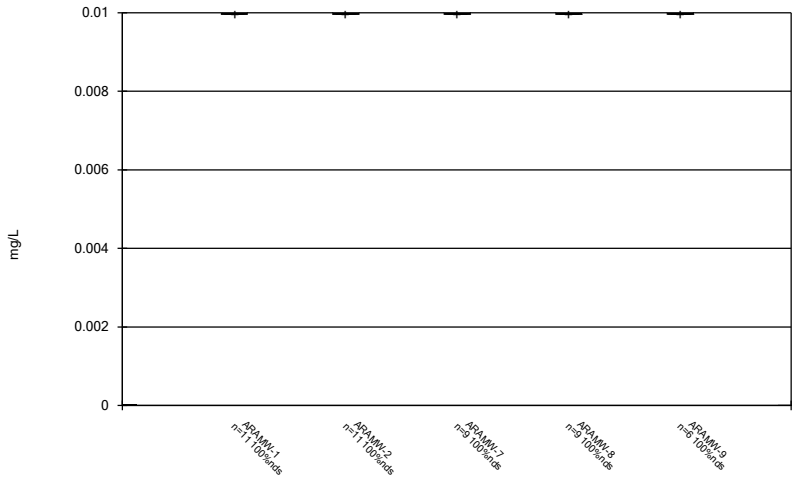
Constituent: Chloride Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



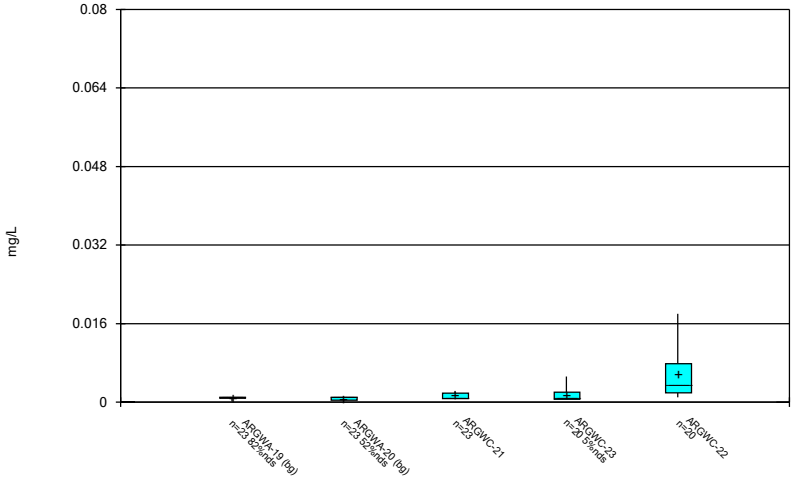
Constituent: Chromium Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



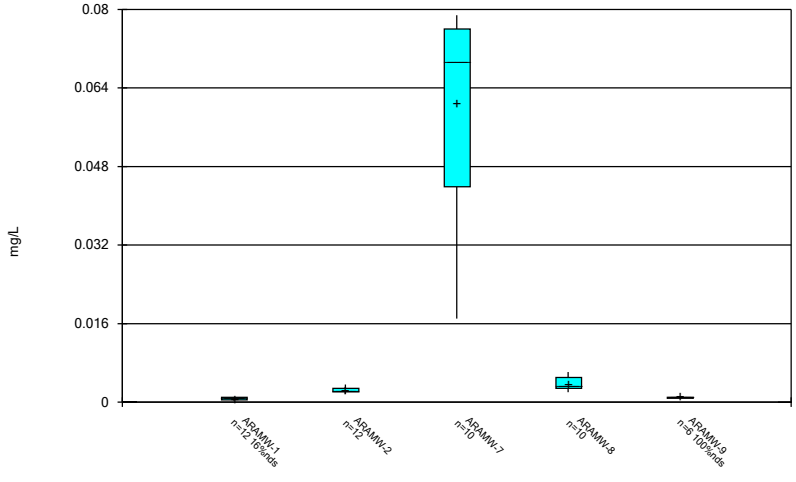
Constituent: Chromium Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



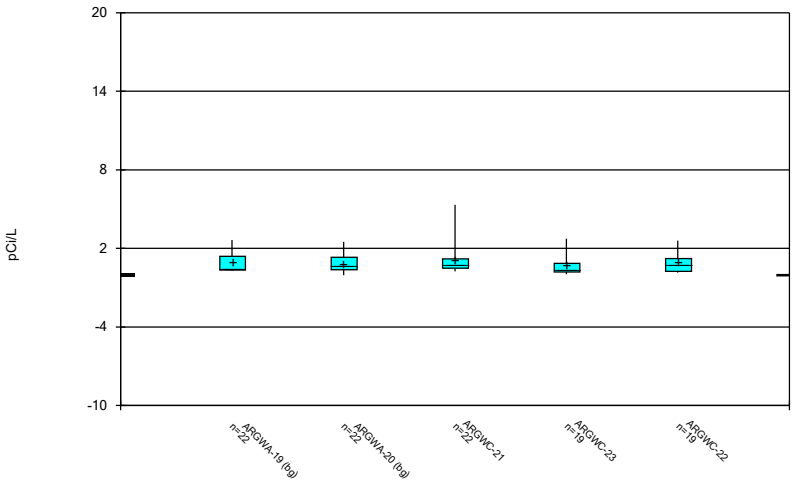
Constituent: Cobalt Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



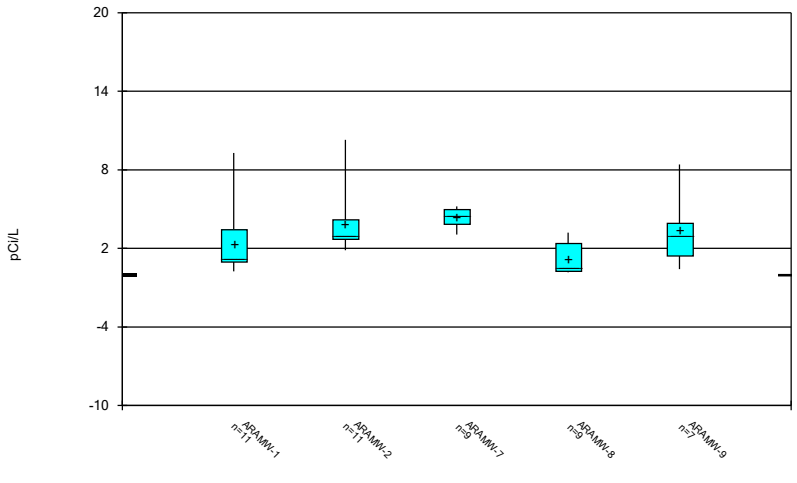
Constituent: Cobalt Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



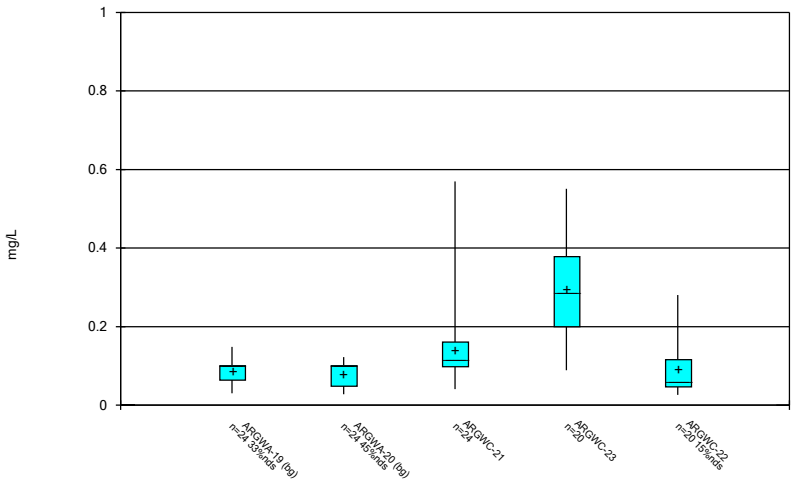
Constituent: Combined Radium 226 + 228 Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



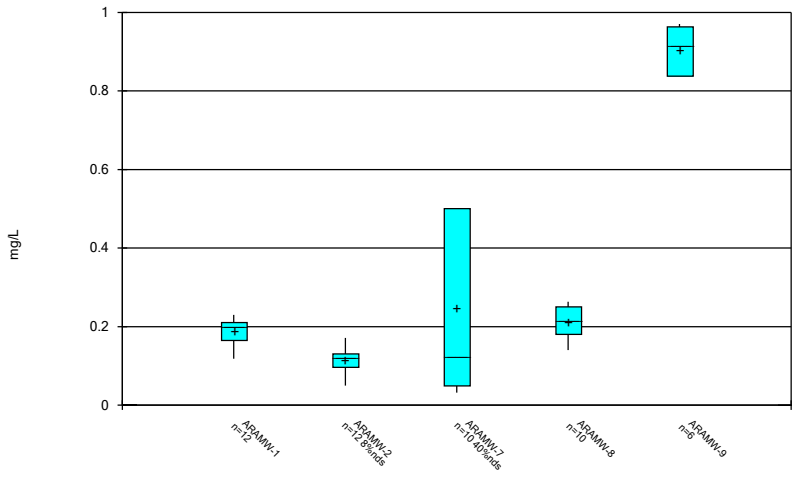
Constituent: Combined Radium 226 + 228 Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



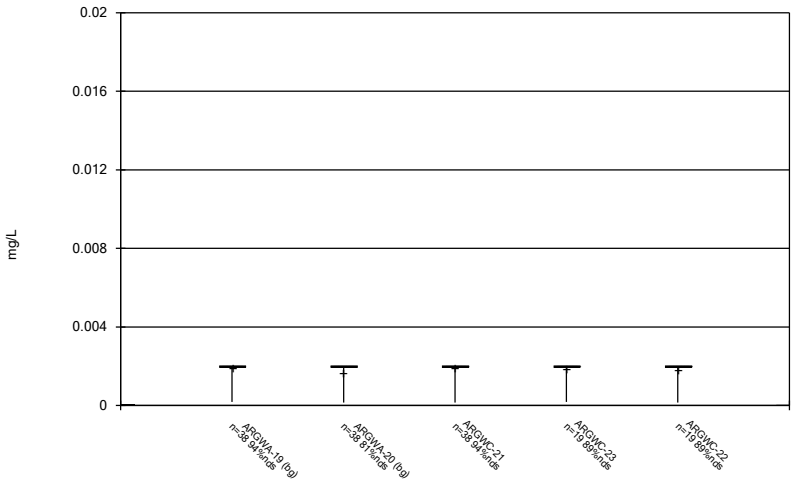
Constituent: Fluoride Analysis Run 5/22/2025 7:09 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



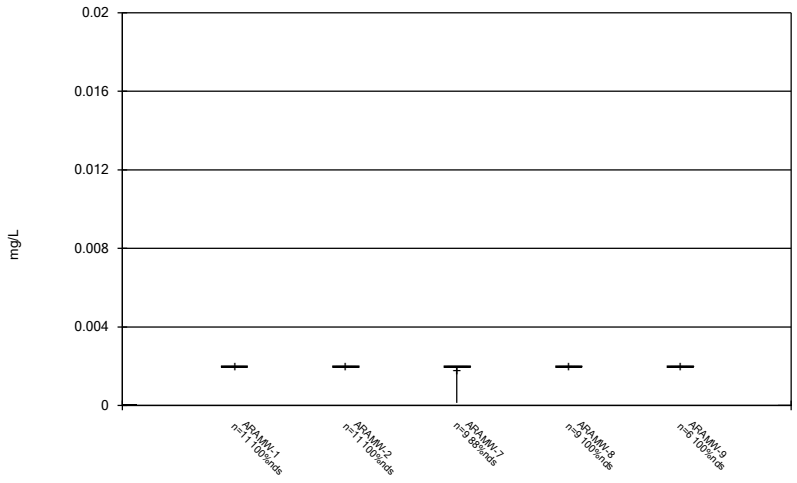
Constituent: Fluoride Analysis Run 5/22/2025 7:10 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



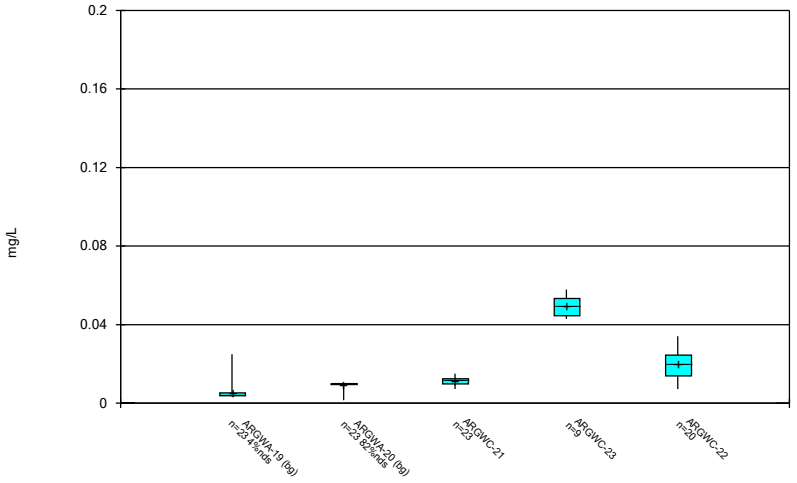
Constituent: Lead Analysis Run 5/22/2025 7:10 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



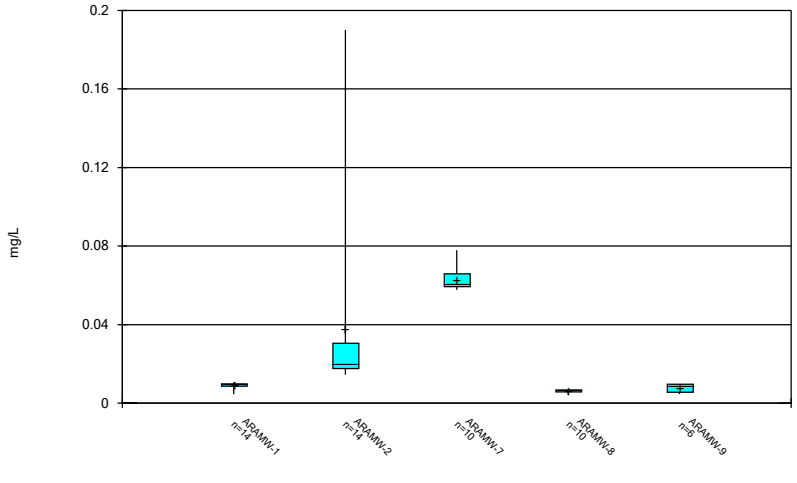
Constituent: Lead Analysis Run 5/22/2025 7:10 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



Constituent: Lithium Analysis Run 5/22/2025 7:10 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



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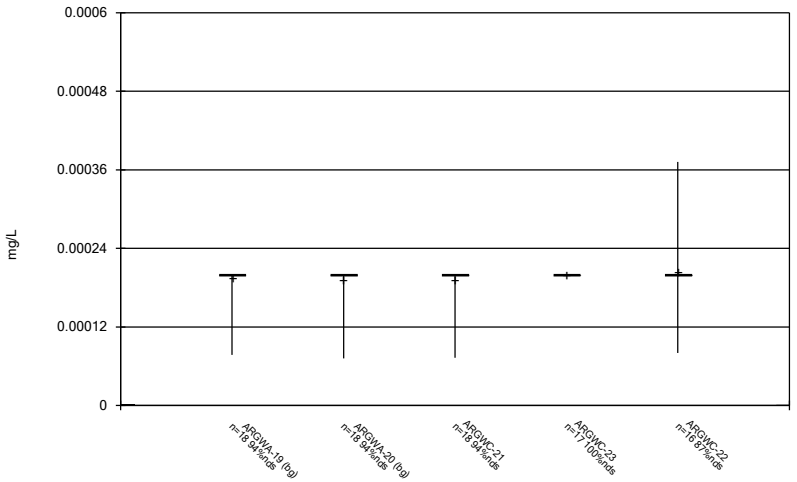
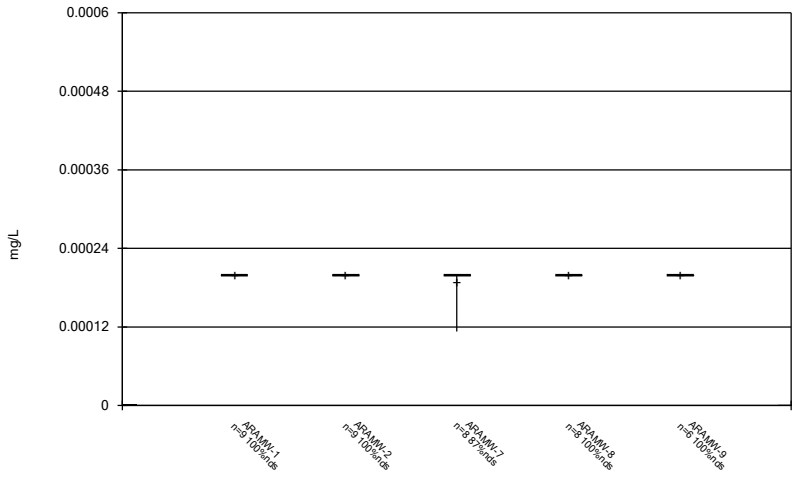
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



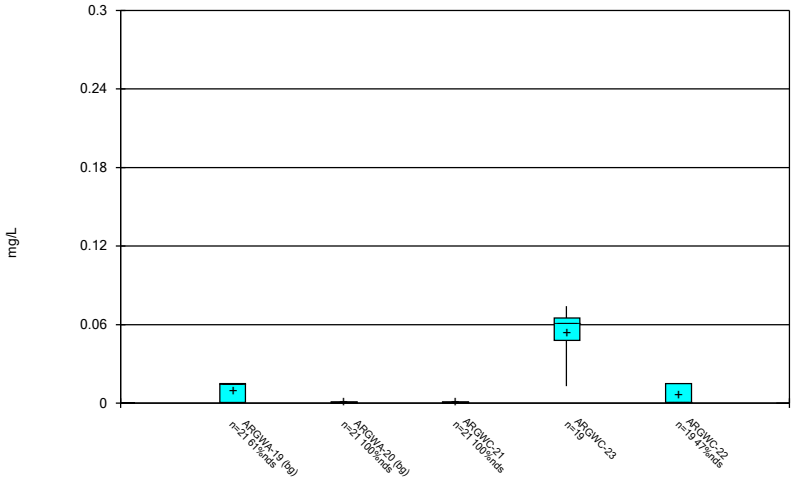
Constituent: Mercury Analysis Run 5/22/2025 7:10 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



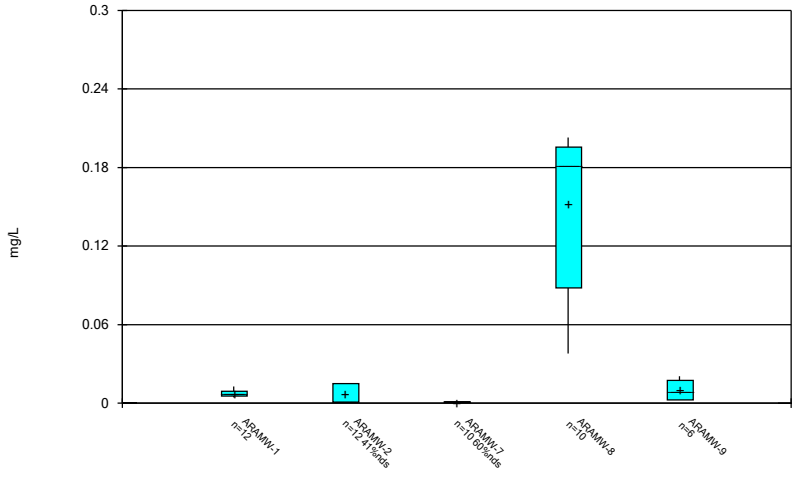
Constituent: Mercury Analysis Run 5/22/2025 7:10 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



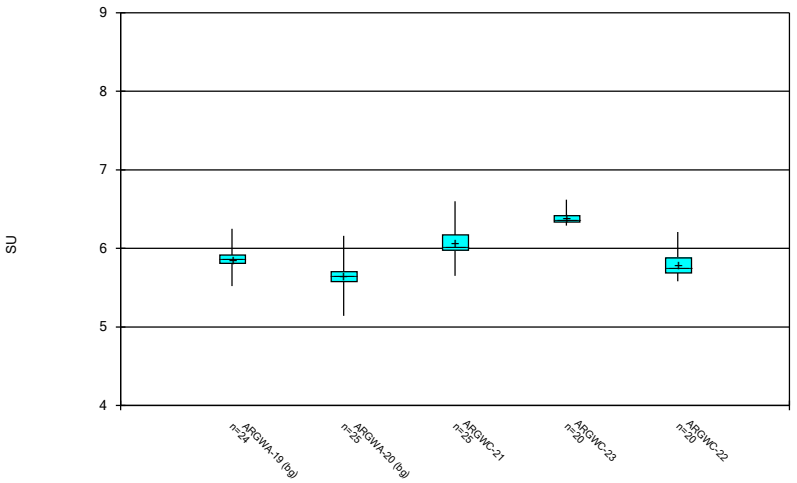
Constituent: Molybdenum Analysis Run 5/22/2025 7:10 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



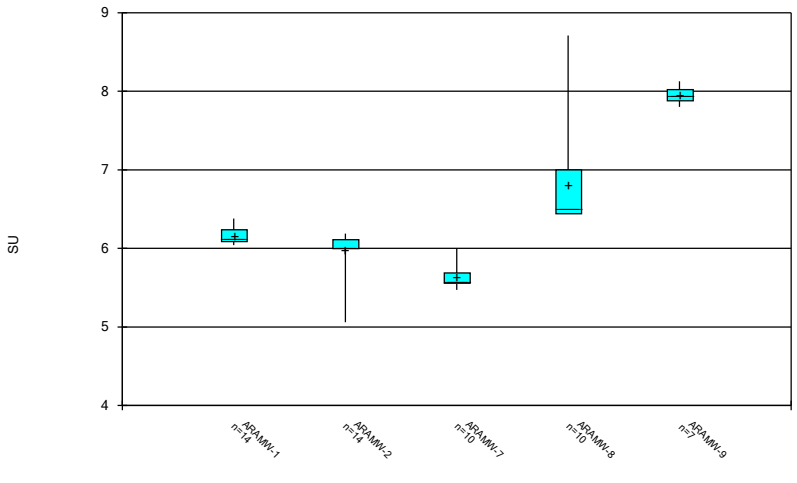
Constituent: Molybdenum Analysis Run 5/22/2025 7:10 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



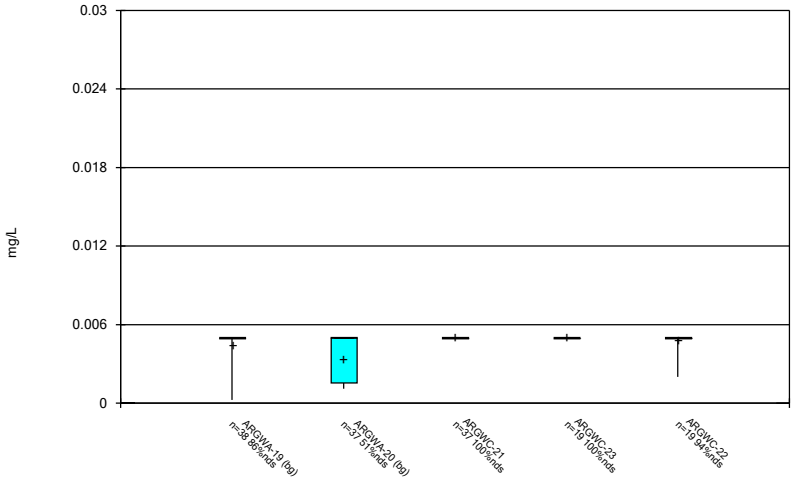
Constituent: pH, Field Analysis Run 5/22/2025 7:10 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



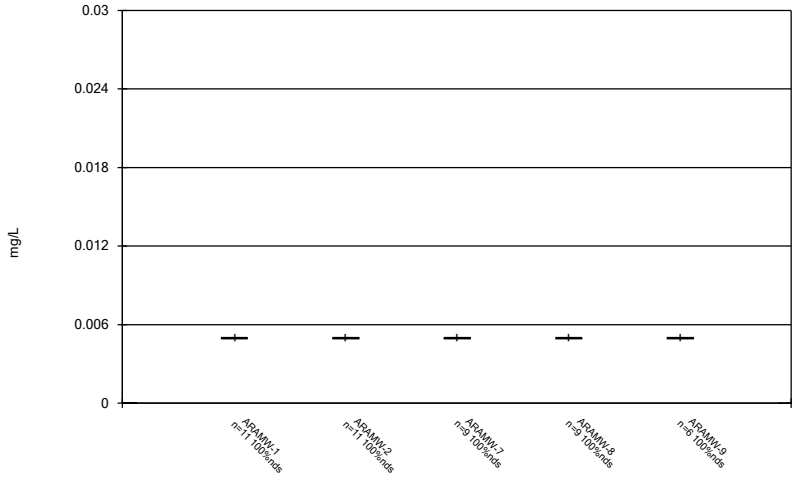
Constituent: pH, Field Analysis Run 5/22/2025 7:10 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



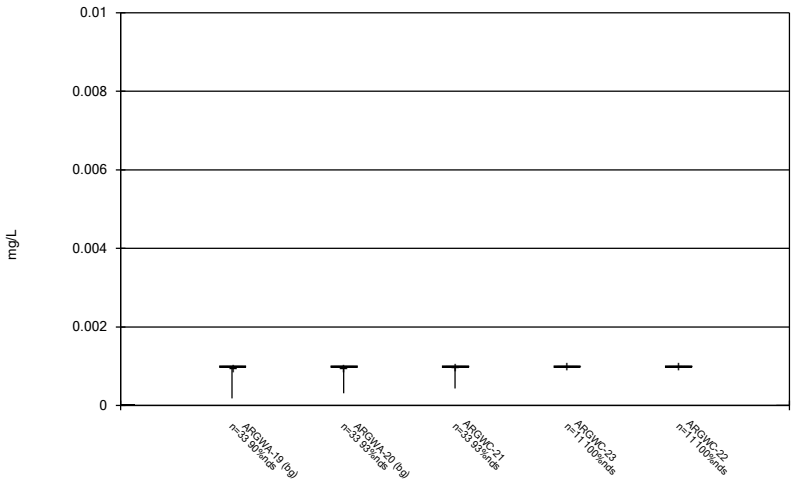
Constituent: Selenium Analysis Run 5/22/2025 7:10 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



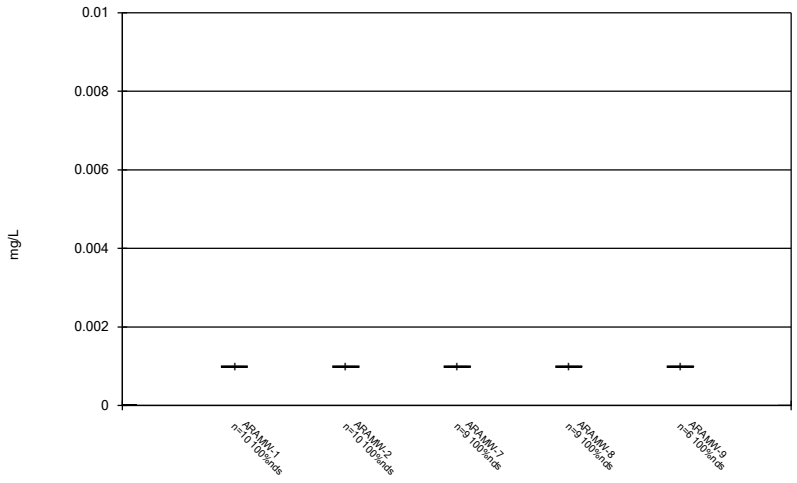
Constituent: Selenium Analysis Run 5/22/2025 7:10 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



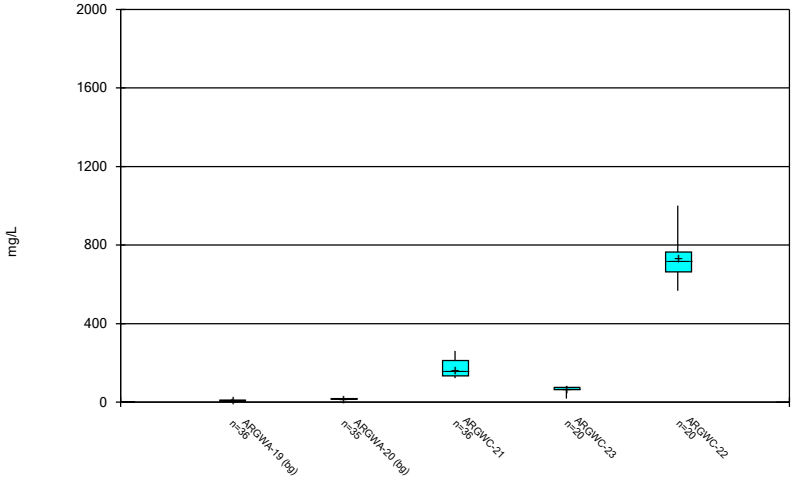
Constituent: Silver Analysis Run 5/22/2025 7:10 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



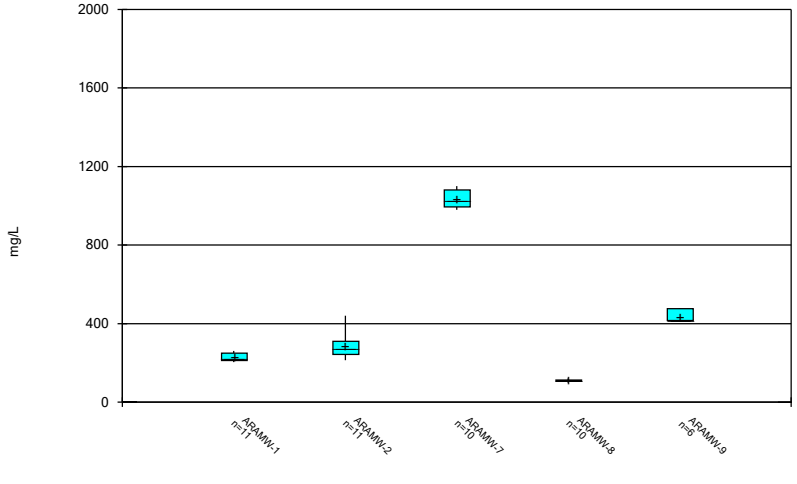
Constituent: Silver Analysis Run 5/22/2025 7:10 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



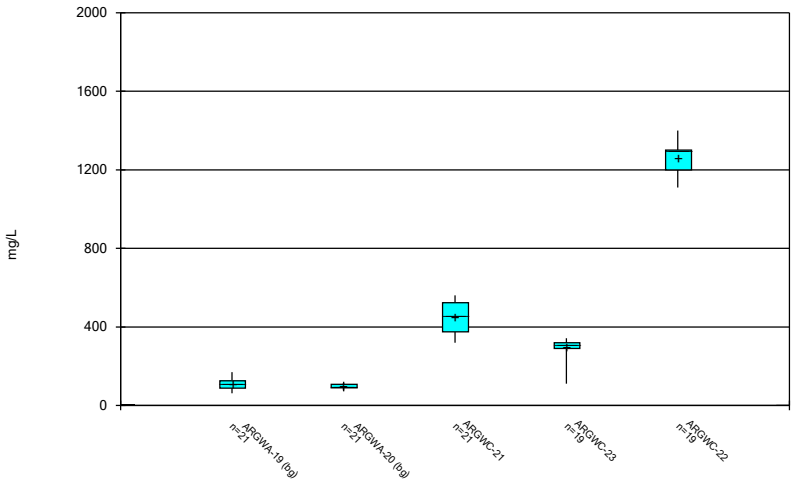
Constituent: Sulfate Analysis Run 5/22/2025 7:10 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



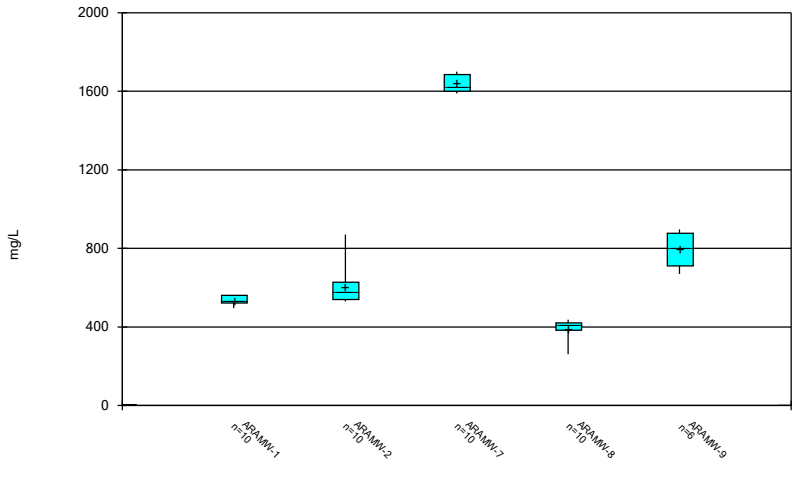
Constituent: Sulfate Analysis Run 5/22/2025 7:10 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



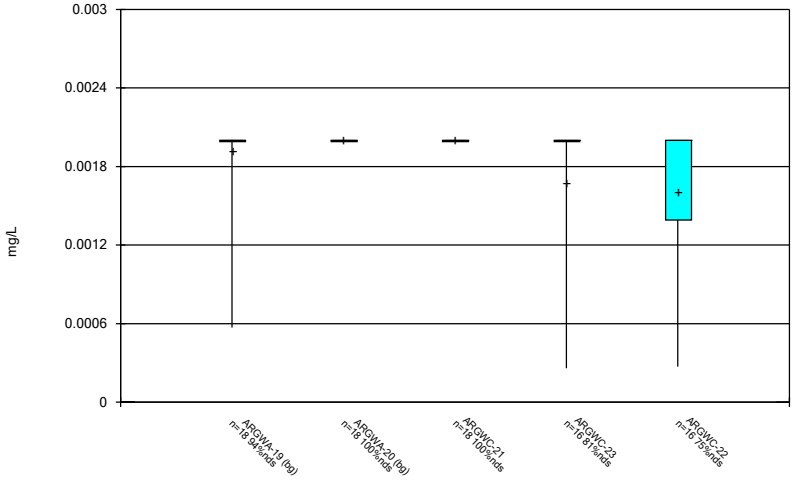
Constituent: TDS Analysis Run 5/22/2025 7:10 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



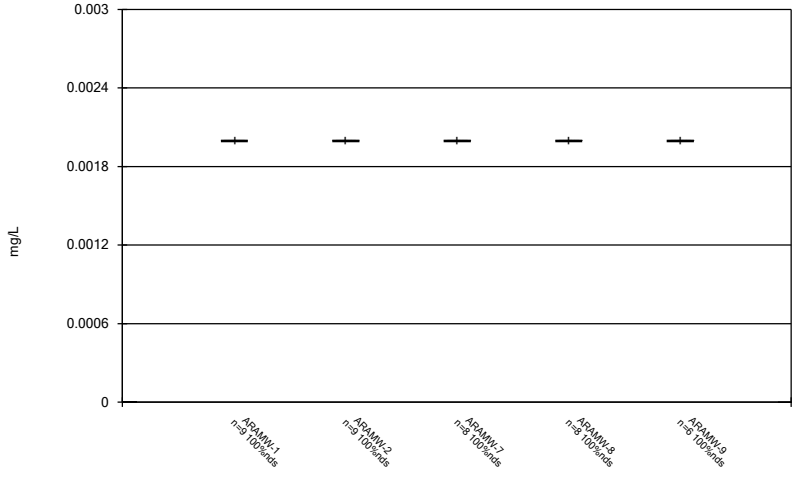
Constituent: TDS Analysis Run 5/22/2025 7:10 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/22/2025 7:10 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/22/2025 7:10 AM View: Descriptive
Plant Arkwright Client: Southern Company Data: Arkwright No 2

FIGURE C.

Outlier Summary

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/21/2025, 8:08 AM

	ARGWA-19 pH, Field (SU)	ARGWA-20 Selenium (mg/L)	ARGWC-21 Selenium (mg/L)	ARGWA-20 Sulfate (mg/L)
5/14/2009			0.0058 (O)	
5/15/2009		0.007 (O)		41.3 (O)
8/29/2016	6.75 (O)			

FIGURE D.

Appendix I - Interwell Prediction Limits - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/21/2025, 7:24 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium (mg/L)	**ARGWC-23**	**0.107**	**n/a**	**2/4/2025**	**0.118**	**Yes**	**76**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0003357**	**NP Inter (normality) 1 of 2**

Appendix I - Interwell Prediction Limits - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/21/2025, 7:24 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	ARGWC-21	0.005	n/a	2/4/2025	0.005ND	No	76	n/a	n/a	88.16	n/a	n/a	0.0003357	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-23	0.005	n/a	2/4/2025	0.005ND	No	76	n/a	n/a	88.16	n/a	n/a	0.0003357	NP Inter (NDs) 1 of 2
Arsenic (mg/L)	ARGWC-22	0.005	n/a	2/4/2025	0.005ND	No	76	n/a	n/a	88.16	n/a	n/a	0.0003357	NP Inter (NDs) 1 of 2
Barium (mg/L)	ARGWC-21	0.107	n/a	2/4/2025	0.0492	No	76	n/a	n/a	0	n/a	n/a	0.0003357	NP Inter (normality) 1 of 2
Barium (mg/L)	**ARGWC-23**	**0.107**	**n/a**	**2/4/2025**	**0.118**	**Yes**	**76**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0003357**	**NP Inter (normality) 1 of 2**
Barium (mg/L)	ARGWC-22	0.107	n/a	2/4/2025	0.0282	No	76	n/a	n/a	0	n/a	n/a	0.0003357	NP Inter (normality) 1 of 2
Lead (mg/L)	ARGWC-21	0.002	n/a	2/4/2025	0.002ND	No	76	n/a	n/a	88.16	n/a	n/a	0.0003357	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-23	0.002	n/a	2/4/2025	0.002ND	No	76	n/a	n/a	88.16	n/a	n/a	0.0003357	NP Inter (NDs) 1 of 2
Lead (mg/L)	ARGWC-22	0.002	n/a	2/4/2025	0.002ND	No	76	n/a	n/a	88.16	n/a	n/a	0.0003357	NP Inter (NDs) 1 of 2
Selenium (mg/L)	ARGWC-22	0.005	n/a	2/4/2025	0.005ND	No	75	n/a	n/a	69.33	n/a	n/a	0.0003447	NP Inter (NDs) 1 of 2
Silver (mg/L)	ARGWC-21	0.001	n/a	2/4/2025	0.001ND	No	66	n/a	n/a	92.42	n/a	n/a	0.0004437	NP Inter (NDs) 1 of 2

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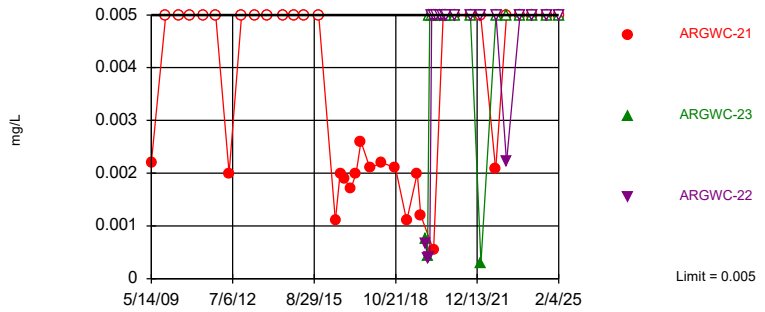
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 76 background values. 88.16% NDs. Annual per-constituent alpha = 0.002013. Individual comparison alpha = 0.0003357 (1 of 2). Comparing 3 points to limit.

Constituent: Arsenic Analysis Run 5/21/2025 7:22 AM View: Appendix I - Interwell PLs (100% NDs)
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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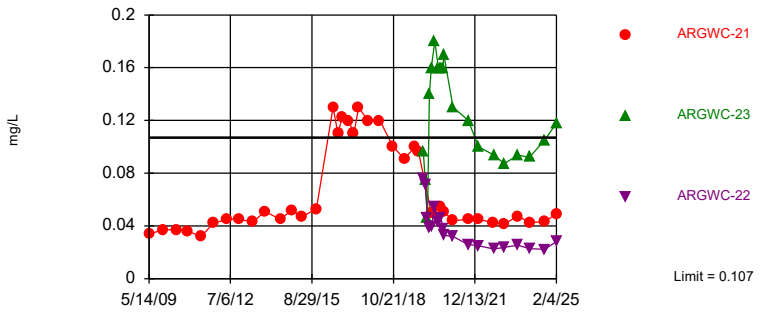
Exceeds Limit: ARGWC-23

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 76 background values. Annual per-constituent alpha = 0.002013. Individual comparison alpha = 0.0003357 (1 of 2). Comparing 3 points to limit.

Constituent: Barium Analysis Run 5/21/2025 7:22 AM View: Appendix I - Interwell PLs (100% NDs)
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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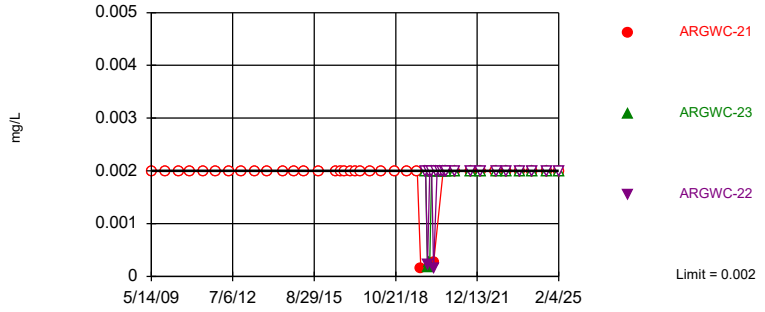
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 76 background values. 88.16% NDs. Annual per-constituent alpha = 0.002013. Individual comparison alpha = 0.0003357 (1 of 2). Comparing 3 points to limit.

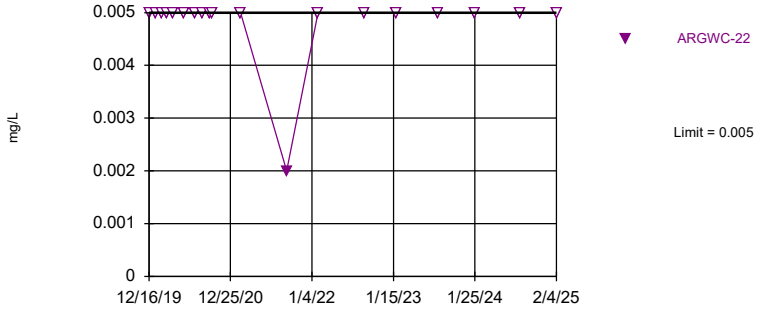
Constituent: Lead Analysis Run 5/21/2025 7:22 AM View: Appendix I - Interwell PLs (100% NDs)
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 75 background values. 69.33% NDs. Annual per-constituent alpha = 0.002066. Individual comparison alpha = 0.0003447 (1 of 2). Assumes 2 future values.

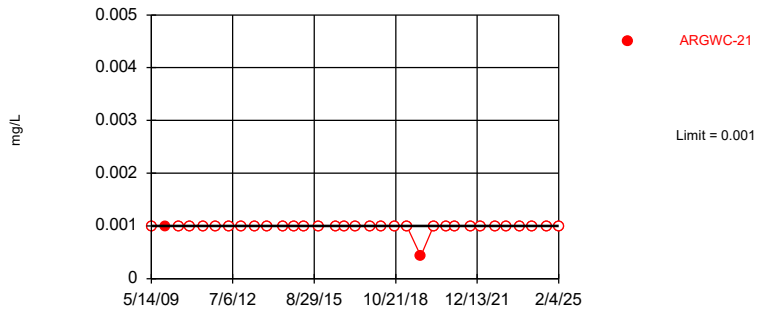
Constituent: Selenium Analysis Run 5/21/2025 7:22 AM View: Appendix I - Interwell PLs (100% NDs)
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 66 background values. 92.42% NDs. Annual per-constituent alpha = 0.002659. Individual comparison alpha = 0.0004437 (1 of 2). Assumes 2 future values.

Constituent: Silver Analysis Run 5/21/2025 7:22 AM View: Appendix I - Interwell PLs (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/21/2025 7:24 AM View: Appendix I - Interwell PLs (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
5/5/2009	<0.005				
5/14/2009		0.0022			
5/15/2009			0.0015		
12/5/2009	<0.005	<0.005	<0.005		
6/1/2010	<0.005		<0.005		
6/2/2010		<0.005			
11/11/2010	<0.005	<0.005	<0.005		
5/17/2011	<0.005	<0.005	<0.005		
11/8/2011	<0.005	<0.005	<0.005		
5/16/2012	<0.005	0.002 (J)	<0.005		
11/9/2012		<0.005	<0.005		
11/10/2012	<0.005				
5/14/2013	<0.005	<0.005	<0.005		
11/5/2013	<0.005	<0.005	<0.005		
6/9/2014	<0.005	<0.005	<0.005		
11/18/2014		<0.005	<0.005		
11/19/2014	<0.005				
4/14/2015	<0.005	<0.005	<0.005		
10/29/2015		<0.005			
11/4/2015	<0.005		<0.005		
6/22/2016	<0.005		0.00084 (J)		
6/23/2016		0.0011 (J)			
8/29/2016	<0.005		0.00049 (J)		
8/30/2016		0.002			
10/24/2016	<0.005		<0.005		
10/26/2016		0.0019 (J)			
1/25/2017	<0.005	0.0017	<0.005		
4/10/2017	<0.005	0.002	0.00056 (J)		
6/19/2017	<0.005	0.0026			
6/20/2017			0.00068 (J)		
10/24/2017	<0.005	0.0021	<0.005		
4/9/2018			<0.005		
4/10/2018	<0.005	0.0022			
10/16/2018	<0.005	0.0021	<0.005		
3/26/2019	<0.005				
3/27/2019		0.0011 (J)	<0.005		
8/20/2019	0.00036 (J)	0.002	0.00047 (J)		
10/7/2019	<0.005		<0.005		
10/8/2019		0.0012 (J)			
12/16/2019				0.00075 (J)	0.00066 (J)
1/14/2020				0.00042 (J)	0.00038 (J)
2/11/2020				<0.005	0.0004 (J)
3/9/2020				<0.005	<0.005
4/6/2020			0.00042 (J)		
4/7/2020	0.0006 (J)	0.00054 (J)		<0.005	<0.005
5/27/2020				<0.005	<0.005
7/15/2020				<0.005	<0.005
8/19/2020	<0.005		<0.005		<0.005
8/20/2020				<0.005	
8/21/2020		<0.005			
9/22/2020				<0.005	<0.005
9/29/2020	<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/21/2025 7:24 AM View: Appendix I - Interwell PLs (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
9/30/2020			<0.005		<0.005
10/1/2020		<0.005		<0.005	
2/9/2021	<0.005		<0.005		
2/10/2021		<0.005		<0.005	<0.005
9/7/2021	<0.005				
9/8/2021		<0.005	<0.005		
9/9/2021				<0.005	
9/10/2021					<0.005
2/1/2022	<0.005	<0.005	<0.005		
2/2/2022					<0.005
2/3/2022				0.0003 (J)	
9/1/2022	<0.005	0.00207 (J)			
9/2/2022			<0.005		
9/6/2022				<0.005	<0.005
1/31/2023	<0.005	<0.005		<0.005	0.00221 (J)
2/1/2023			<0.005		
8/8/2023	<0.005			<0.005	<0.005
8/9/2023		<0.005			
8/10/2023			<0.005		
1/23/2024	<0.005		<0.005		<0.005
1/24/2024		<0.005		<0.005	
8/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005
2/4/2025	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/21/2025 7:24 AM View: Appendix I - Interwell PLs (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
5/5/2009	0.057				
5/14/2009		0.034			
5/15/2009			0.1		
12/5/2009	0.05	0.037	0.079		
6/1/2010	0.037		0.077		
6/2/2010		0.037			
11/11/2010	0.039	0.036	0.072		
5/17/2011	0.037	0.032	0.064		
11/8/2011	0.045	0.042	0.07		
5/16/2012	0.0518	0.0451	0.0741		
11/9/2012		0.045	0.082		
11/10/2012	0.064				
5/14/2013	0.067	0.043	0.074		
11/5/2013	0.066	0.051	0.075		
6/9/2014	0.062	0.045	0.08		
11/18/2014		0.052	0.078		
11/19/2014	0.054				
4/14/2015	0.046	0.047	0.073		
10/29/2015		0.053			
11/4/2015	0.046		0.077		
6/22/2016	0.039		0.078		
6/23/2016		0.13			
8/29/2016	0.04		0.07		
8/30/2016		0.11			
10/24/2016	0.0444		0.0738		
10/26/2016		0.122			
1/25/2017	0.045	0.12	0.084		
4/10/2017	0.039	0.11	0.073		
6/19/2017	0.041	0.13			
6/20/2017			0.078		
10/24/2017	0.041	0.12	0.081		
4/9/2018			0.081		
4/10/2018	0.044	0.12			
10/16/2018	0.047	0.1	0.08		
3/26/2019	0.056				
3/27/2019		0.091	0.082		
8/20/2019	0.052	0.1	0.079		
10/7/2019	0.049		0.076		
10/8/2019		0.096			
12/16/2019				0.096	0.076
1/14/2020				0.075	0.071
2/11/2020				0.046	0.046
3/9/2020				0.14	0.039
4/6/2020			0.075		
4/7/2020	0.047	0.05		0.16	0.04
5/27/2020				0.18	0.054
7/15/2020				0.16	0.043
8/19/2020	0.044		0.085		0.046
8/20/2020				0.16	
8/21/2020		0.054			
9/22/2020				0.16	0.038
9/29/2020	0.04				

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/21/2025 7:24 AM View: Appendix I - Interwell PLs (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
9/30/2020			0.08		0.033
10/1/2020		0.051		0.17	
2/9/2021	0.032		0.078		
2/10/2021		0.044		0.13	0.032
9/7/2021	0.03				
9/8/2021		0.045	0.085		
9/9/2021				0.12	
9/10/2021					0.026
2/1/2022	0.031	0.045	0.079		
2/2/2022					0.025
2/3/2022				0.1	
9/1/2022	0.0303	0.0425			
9/2/2022			0.0806		
9/6/2022				0.0939	0.0226
1/31/2023	0.031	0.0414		0.0872	0.0237
2/1/2023			0.0919		
8/8/2023	0.0337			0.0936	0.0255
8/9/2023		0.0474			
8/10/2023			0.107		
1/23/2024	0.0348		0.0978		0.0227
1/24/2024		0.0427		0.0922	
8/20/2024	0.0293	0.0431	0.0863	0.105	0.0223
2/4/2025	0.0311	0.0492	0.0926	0.118	0.0282

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/21/2025 7:24 AM View: Appendix I - Interwell PLs (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
5/5/2009	<0.002				
5/14/2009		<0.002			
5/15/2009			<0.002		
12/5/2009	<0.002	<0.002	<0.002		
6/1/2010	<0.002		<0.002		
6/2/2010		<0.002			
11/11/2010	<0.002	<0.002	<0.002		
5/17/2011	<0.002	<0.002	<0.002		
11/8/2011	<0.002	<0.002	<0.002		
5/16/2012	<0.002	<0.002	<0.002		
11/9/2012		<0.002	<0.002		
11/10/2012	<0.002				
5/14/2013	<0.002	<0.002	<0.002		
11/5/2013	<0.002	<0.002	<0.002		
6/9/2014	<0.002	<0.002	<0.002		
11/18/2014		<0.002	<0.002		
11/19/2014	<0.002				
4/14/2015	<0.002	<0.002	<0.002		
10/29/2015		<0.002			
11/4/2015	<0.002		<0.002		
6/22/2016	<0.002		<0.002		
6/23/2016		<0.002			
8/29/2016	<0.002		<0.002		
8/30/2016		<0.002			
10/24/2016	<0.002		<0.002		
10/26/2016		<0.002			
1/25/2017	<0.002	<0.002	0.00037 (J)		
4/10/2017	<0.002	<0.002	<0.002		
6/19/2017	<0.002	<0.002			
6/20/2017			<0.002		
10/24/2017	<0.002	<0.002	<0.002		
4/9/2018			<0.002		
4/10/2018	<0.002	<0.002			
10/16/2018	<0.002	<0.002	<0.002		
3/26/2019	<0.002				
3/27/2019		<0.002	<0.002		
8/20/2019	<0.002	<0.002	<0.002		
10/7/2019	0.00018 (J)		0.00014 (J)		
10/8/2019		0.00015 (J)			
12/16/2019				<0.002	<0.002
1/14/2020				0.00018 (J)	0.00022 (J)
2/11/2020				0.00026 (J)	<0.002
3/9/2020				<0.002	<0.002
4/6/2020			0.00033 (J)		
4/7/2020	0.00037 (J)	0.00026 (J)		<0.002	0.00014 (J)
5/27/2020				<0.002	<0.002
7/15/2020				<0.002	<0.002
8/19/2020	<0.002		0.00039 (J)		<0.002
8/20/2020				<0.002	
8/21/2020		<0.002			
9/22/2020				<0.002	<0.002
9/29/2020	<0.002				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/21/2025 7:24 AM View: Appendix I - Interwell PLs (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
9/30/2020			0.00022 (J)		<0.002
10/1/2020		<0.002		<0.002	
2/9/2021	<0.002		0.00033 (J)		
2/10/2021		<0.002		<0.002	<0.002
9/7/2021	<0.002				
9/8/2021		<0.002	0.00024 (J)		
9/9/2021				<0.002	
9/10/2021					<0.002
2/1/2022	<0.002	<0.002	<0.002		
2/2/2022					<0.002
2/3/2022				<0.002	
9/1/2022	<0.002	<0.002			
9/2/2022			<0.002		
9/6/2022				<0.002	<0.002
1/31/2023	<0.002	<0.002		<0.002	<0.002
2/1/2023			<0.002		
8/8/2023	<0.002			<0.002	<0.002
8/9/2023		<0.002			
8/10/2023			<0.002		
1/23/2024	<0.002		<0.002		<0.002
1/24/2024		<0.002		<0.002	
8/20/2024	<0.002	<0.002	<0.002	<0.002	<0.002
2/4/2025	<0.002	<0.002	<0.002	<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/21/2025 7:24 AM View: Appendix I - Interwell PLs (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-22
5/5/2009	0.0043		
5/15/2009		0.007 (O)	
12/5/2009	<0.005	<0.005	
6/1/2010	<0.005	<0.005	
11/11/2010	<0.005	<0.005	
5/17/2011	<0.005	<0.005	
11/8/2011	<0.005	<0.005	
5/16/2012	<0.005	0.0024 (J)	
11/9/2012		<0.005	
11/10/2012	<0.005		
5/14/2013	<0.005	<0.005	
11/5/2013	<0.005	<0.005	
6/9/2014	<0.005	<0.005	
11/18/2014		<0.005	
11/19/2014	<0.005		
4/14/2015	<0.005	<0.005	
11/4/2015	<0.005	<0.005	
6/22/2016	0.00025 (J)	0.0019	
8/29/2016	0.0004 (J)	0.0019	
10/24/2016	<0.005	0.0023 (J)	
1/25/2017	<0.005	0.0015	
4/10/2017	<0.005	0.0011 (J)	
6/19/2017	0.00025 (J)		
6/20/2017		0.0016	
10/24/2017	<0.005	0.0012 (J)	
4/9/2018		0.0012 (J)	
4/10/2018	0.00074 (J)		
10/16/2018	<0.005	0.0015	
3/26/2019	<0.005		
3/27/2019		0.0015	
8/20/2019	<0.005	0.0015 (J)	
10/7/2019	<0.005	0.0016 (J)	
12/16/2019			<0.005
1/14/2020			<0.005
2/11/2020			<0.005
3/9/2020			<0.005
4/6/2020		0.0017 (J)	
4/7/2020	<0.005		<0.005
5/27/2020			<0.005
7/15/2020			<0.005
8/19/2020	<0.005	0.0015 (J)	<0.005
9/22/2020			<0.005
9/29/2020	<0.005		
9/30/2020		0.0016 (J)	<0.005
2/9/2021	<0.005	0.0016 (J)	
2/10/2021			<0.005
9/7/2021	<0.005		
9/8/2021		<0.005	
9/10/2021			0.002 (J)
2/1/2022	<0.005	0.0015 (J)	
2/2/2022			<0.005
9/1/2022	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/21/2025 7:24 AM View: Appendix I - Interwell PLs (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-22
9/2/2022		<0.005	
9/6/2022			<0.005
1/31/2023	<0.005		<0.005
2/1/2023		<0.005	
8/8/2023	<0.005		<0.005
8/10/2023		<0.005	
1/23/2024	<0.005	<0.005	<0.005
8/20/2024	<0.005	<0.005	<0.005
2/4/2025	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/21/2025 7:24 AM View: Appendix I - Interwell PLs (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)
5/5/2009	<0.001		
5/14/2009		<0.001	
5/15/2009			<0.001
12/5/2009	0.00075	0.001	0.00043
6/1/2010	<0.001		<0.001
6/2/2010		<0.001	
11/11/2010	<0.001	<0.001	<0.001
5/17/2011	<0.001	<0.001	<0.001
11/8/2011	<0.001	<0.001	<0.001
5/16/2012	<0.001	<0.001	<0.001
11/9/2012		<0.001	<0.001
11/10/2012	<0.001		
5/14/2013	<0.001	<0.001	<0.001
11/5/2013	<0.001	<0.001	<0.001
6/9/2014	<0.001	<0.001	<0.001
11/18/2014		<0.001	<0.001
11/19/2014	<0.001		
4/14/2015	<0.001	<0.001	<0.001
10/29/2015		<0.001	
11/4/2015	<0.001		<0.001
6/22/2016	<0.001		<0.001
6/23/2016		<0.001	
10/24/2016	<0.001		<0.001
10/26/2016		<0.001	
4/10/2017	<0.001	<0.001	<0.001
10/24/2017	<0.001	<0.001	<0.001
4/9/2018			<0.001
4/10/2018	<0.001	<0.001	
10/16/2018	<0.001	<0.001	<0.001
3/26/2019	<0.001		
3/27/2019		<0.001	<0.001
10/7/2019	0.00056 (J)		0.00031 (J)
10/8/2019		0.00043 (J)	
4/6/2020			<0.001
4/7/2020	0.00018 (J)	<0.001	
9/29/2020	<0.001		
9/30/2020			<0.001
10/1/2020		<0.001	
2/9/2021	<0.001		<0.001
2/10/2021		<0.001	
9/7/2021	<0.001		
9/8/2021		<0.001	<0.001
2/1/2022	<0.001	<0.001	<0.001
9/1/2022	<0.001	<0.001	
9/2/2022			<0.001
1/31/2023	<0.001	<0.001	
2/1/2023			<0.001
8/8/2023	<0.001		
8/9/2023		<0.001	
8/10/2023			<0.001
1/23/2024	<0.001		<0.001
1/24/2024		<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 5/21/2025 7:24 AM View: Appendix I - Interwell PLs (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)
8/20/2024	<0.001	<0.001	<0.001
2/4/2025	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

FIGURE E.

Appendix III - Interwell Prediction Limits - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/21/2025, 7:27 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	ARGWC-21	0.092	n/a	2/4/2025	1.31	Yes	44	n/a	n/a	25	n/a	n/a	0.0009861	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-23	0.092	n/a	2/4/2025	0.485	Yes	44	n/a	n/a	25	n/a	n/a	0.0009861	NP Inter (normality) 1 of 2
Boron (mg/L)	ARGWC-22	0.092	n/a	2/4/2025	3.1	Yes	44	n/a	n/a	25	n/a	n/a	0.0009861	NP Inter (normality) 1 of 2
Calcium (mg/L)	ARGWC-21	13.74	n/a	2/4/2025	85.1	Yes	44	3.213	0.2842	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Calcium (mg/L)	ARGWC-23	13.74	n/a	2/4/2025	75.2	Yes	44	3.213	0.2842	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Calcium (mg/L)	ARGWC-22	13.74	n/a	2/4/2025	187	Yes	44	3.213	0.2842	0	None	sqrt(x)	0.002505	Param Inter 1 of 2
Fluoride (mg/L)	ARGWC-23	0.148	n/a	2/4/2025	0.286	Yes	48	n/a	n/a	39.58	n/a	n/a	0.0008268	NP Inter (normality) 1 of 2
pH, Field (SU)	ARGWC-23	6.078	5.416	2/4/2025	6.42	Yes	49	5.747	0.1913	0	None	No	0.001253	Param Inter 1 of 2
Sulfate (mg/L)	ARGWC-21	21	n/a	2/4/2025	216	Yes	71	n/a	n/a	0	n/a	n/a	0.0003804	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-23	21	n/a	2/4/2025	77.6	Yes	71	n/a	n/a	0	n/a	n/a	0.0003804	NP Inter (normality) 1 of 2
Sulfate (mg/L)	ARGWC-22	21	n/a	2/4/2025	656	Yes	71	n/a	n/a	0	n/a	n/a	0.0003804	NP Inter (normality) 1 of 2
TDS (mg/L)	ARGWC-21	140.3	n/a	2/4/2025	534	Yes	42	104.1	20.78	0	None	No	0.002505	Param Inter 1 of 2
TDS (mg/L)	ARGWC-23	140.3	n/a	2/4/2025	320	Yes	42	104.1	20.78	0	None	No	0.002505	Param Inter 1 of 2
TDS (mg/L)	ARGWC-22	140.3	n/a	2/4/2025	1140	Yes	42	104.1	20.78	0	None	No	0.002505	Param Inter 1 of 2

Appendix III - Interwell Prediction Limits - All Results

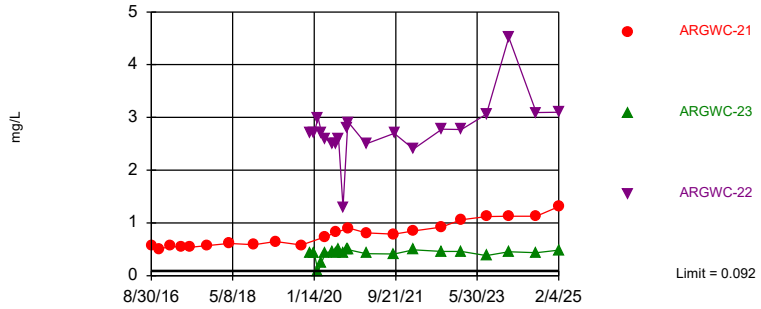
Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/21/2025, 7:27 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**ARGWC-21**	**0.092**	**n/a**	**2/4/2025**	**1.31**	**Yes**	**44**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0009861**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**ARGWC-23**	**0.092**	**n/a**	**2/4/2025**	**0.485**	**Yes**	**44**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0009861**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**ARGWC-22**	**0.092**	**n/a**	**2/4/2025**	**3.1**	**Yes**	**44**	**n/a**	**n/a**	**25**	**n/a**	**n/a**	**0.0009861**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**ARGWC-21**	**13.74**	**n/a**	**2/4/2025**	**85.1**	**Yes**	**44**	**3.213**	**0.2842**	**0**	**None**	**sqrt(x)**	**0.002505**	**Param Inter 1 of 2**
Calcium (mg/L)	**ARGWC-23**	**13.74**	**n/a**	**2/4/2025**	**75.2**	**Yes**	**44**	**3.213**	**0.2842**	**0**	**None**	**sqrt(x)**	**0.002505**	**Param Inter 1 of 2**
Calcium (mg/L)	**ARGWC-22**	**13.74**	**n/a**	**2/4/2025**	**187**	**Yes**	**44**	**3.213**	**0.2842**	**0**	**None**	**sqrt(x)**	**0.002505**	**Param Inter 1 of 2**
Chloride (mg/L)	ARGWC-21	16.2	n/a	2/4/2025	3.29	No	72	n/a	n/a	0	n/a	n/a	0.0003715	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-23	16.2	n/a	2/4/2025	3.55	No	72	n/a	n/a	0	n/a	n/a	0.0003715	NP Inter (normality) 1 of 2
Chloride (mg/L)	ARGWC-22	16.2	n/a	2/4/2025	6.87	No	72	n/a	n/a	0	n/a	n/a	0.0003715	NP Inter (normality) 1 of 2
Fluoride (mg/L)	ARGWC-21	0.148	n/a	2/4/2025	0.131	No	48	n/a	n/a	39.58	n/a	n/a	0.0008268	NP Inter (normality) 1 of 2
Fluoride (mg/L)	**ARGWC-23**	**0.148**	**n/a**	**2/4/2025**	**0.286**	**Yes**	**48**	**n/a**	**n/a**	**39.58**	**n/a**	**n/a**	**0.0008268**	**NP Inter (normality) 1 of 2**
Fluoride (mg/L)	ARGWC-22	0.148	n/a	2/4/2025	0.28J	No	48	n/a	n/a	39.58	n/a	n/a	0.0008268	NP Inter (normality) 1 of 2
pH, Field (SU)	ARGWC-21	6.078	5.416	2/4/2025	6.02	No	49	5.747	0.1913	0	None	No	0.001253	Param Inter 1 of 2
pH, Field (SU)	**ARGWC-23**	**6.078**	**5.416**	**2/4/2025**	**6.42**	**Yes**	**49**	**5.747**	**0.1913**	**0**	**None**	**No**	**0.001253**	**Param Inter 1 of 2**
pH, Field (SU)	ARGWC-22	6.078	5.416	2/4/2025	5.73	No	49	5.747	0.1913	0	None	No	0.001253	Param Inter 1 of 2
Sulfate (mg/L)	**ARGWC-21**	**21**	**n/a**	**2/4/2025**	**216**	**Yes**	**71**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0003804**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**ARGWC-23**	**21**	**n/a**	**2/4/2025**	**77.6**	**Yes**	**71**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0003804**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**ARGWC-22**	**21**	**n/a**	**2/4/2025**	**656**	**Yes**	**71**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0003804**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**ARGWC-21**	**140.3**	**n/a**	**2/4/2025**	**534**	**Yes**	**42**	**104.1**	**20.78**	**0**	**None**	**No**	**0.002505**	**Param Inter 1 of 2**
TDS (mg/L)	**ARGWC-23**	**140.3**	**n/a**	**2/4/2025**	**320**	**Yes**	**42**	**104.1**	**20.78**	**0**	**None**	**No**	**0.002505**	**Param Inter 1 of 2**
TDS (mg/L)	**ARGWC-22**	**140.3**	**n/a**	**2/4/2025**	**1140**	**Yes**	**42**	**104.1**	**20.78**	**0**	**None**	**No**	**0.002505**	**Param Inter 1 of 2**

Exceeds Limit: ARGWC-21, ARGWC-23, ARGWC-22

Prediction Limit

Interwell Non-parametric



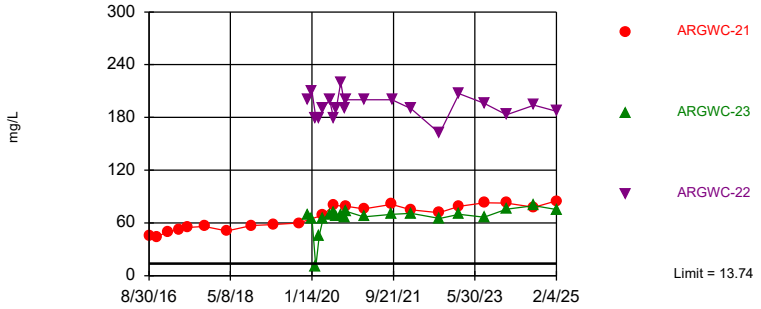
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. 25% NDs. Annual per-constituent alpha = 0.005902. Individual comparison alpha = 0.0009861 (1 of 2). Comparing 3 points to limit.

Constituent: Boron Analysis Run 5/21/2025 7:26 AM View: Appendix III - Interwell PLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Exceeds Limit: ARGWC-21, ARGWC-23, ARGWC-22

Prediction Limit

Interwell Parametric



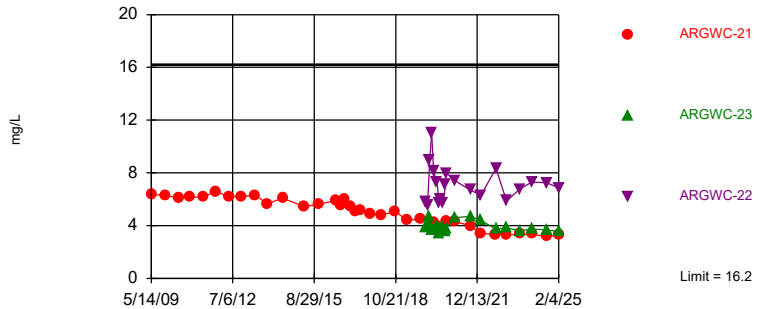
Background Data Summary (based on square root transformation): Mean=3.213, Std. Dev.=0.2842, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9304, critical = 0.924. Kappa = 1.739 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.002505. Comparing 3 points to limit.

Constituent: Calcium Analysis Run 5/21/2025 7:26 AM View: Appendix III - Interwell PLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 72 background values. Annual per-constituent alpha = 0.002227. Individual comparison alpha = 0.0003715 (1 of 2). Comparing 3 points to limit.

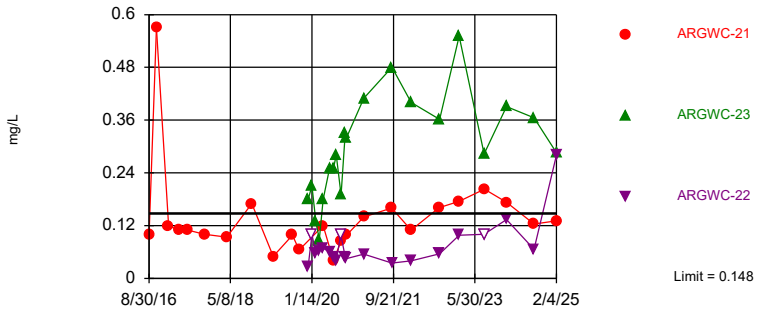
Constituent: Chloride Analysis Run 5/21/2025 7:26 AM View: Appendix III - Interwell PLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

Exceeds Limit: ARGWC-23

Prediction Limit

Interwell Non-parametric



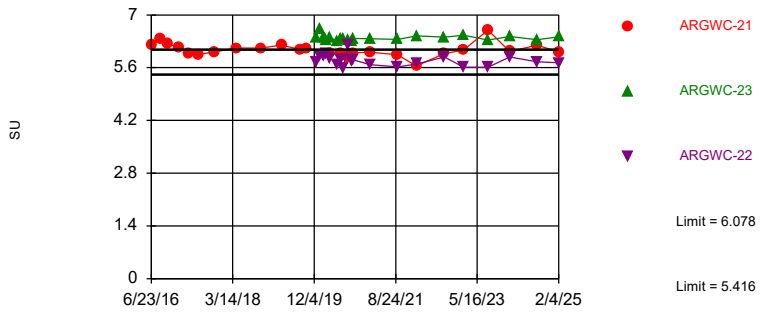
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 48 background values. 39.58% NDs. Annual per-constituent alpha = 0.00495. Individual comparison alpha = 0.0008268 (1 of 2). Comparing 3 points to limit.

Constituent: Fluoride Analysis Run 5/21/2025 7:26 AM View: Appendix III - Interwell PLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Exceeds Limits: ARGWC-23

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=5.747, Std. Dev.=0.1913, n=49. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.974, critical = 0.929. Kappa = 1.728 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001253. Comparing 3 points to limit.

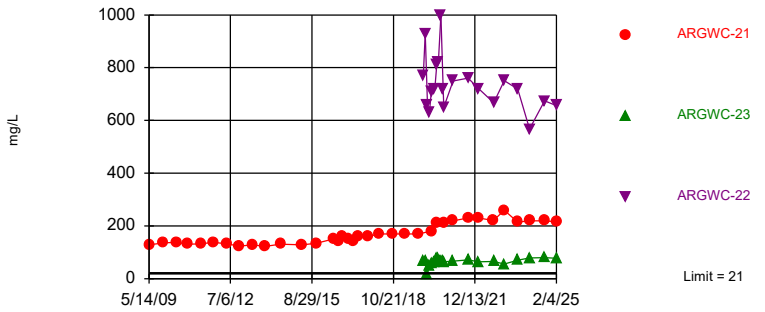
Constituent: pH, Field Analysis Run 5/21/2025 7:26 AM View: Appendix III - Interwell PLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Exceeds Limit: ARGWC-21, ARGWC-23, ARGWC-22

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 71 background values. Annual per-constituent alpha = 0.00228. Individual comparison alpha = 0.0003804 (1 of 2). Comparing 3 points to limit.

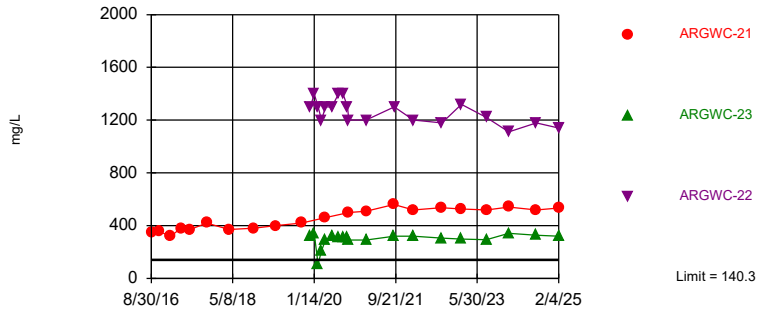
Constituent: Sulfate Analysis Run 5/21/2025 7:26 AM View: Appendix III - Interwell PLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Exceeds Limit: ARGWC-21, ARGWC-23, ARGWC-22

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=104.1, Std. Dev.=20.78, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9575, critical = 0.922. Kappa = 1.744 (c=7, w=3, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.002505. Comparing 3 points to limit.

Constituent: TDS Analysis Run 5/21/2025 7:26 AM View: Appendix III - Interwell PLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/21/2025 7:27 AM View: Appendix III - Interwell PLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/2016	0.024 (J)	<0.08			
8/30/2016			0.57		
10/24/2016	0.0339 (J)	0.0194 (J)			
10/26/2016			0.502		
1/25/2017	0.048 (J)	0.026 (J)	0.56		
4/10/2017	0.022 (J)	<0.08	0.54		
6/19/2017	<0.08		0.54		
6/20/2017		0.032 (J)			
10/24/2017	0.021 (J)	0.054	0.57		
4/9/2018		0.06			
4/10/2018	0.022 (J)		0.61		
10/16/2018	<0.08	0.036 (J)	0.59		
3/26/2019	<0.08				
3/27/2019		0.046 (J)	0.65		
10/7/2019	<0.08	<0.08			
10/8/2019			0.58		
12/16/2019				0.42	2.7
1/14/2020				0.43	2.7
2/11/2020				0.079 (J)	3
3/9/2020				0.25	2.7
4/6/2020		0.063 (J)			
4/7/2020	0.072 (J)		0.74	0.44	2.6
5/27/2020				0.45	2.5
6/24/2020					2.5
6/25/2020	0.091	0.081	0.82	0.42	
7/15/2020				0.49	2.6
8/19/2020					1.3
8/20/2020				0.44	
9/22/2020				0.5	2.8
9/29/2020	<0.08				
9/30/2020		0.083			2.9
10/1/2020			0.9	0.49	
2/9/2021	<0.08	0.059 (J)			
2/10/2021			0.81	0.42	2.5
9/7/2021	<0.08				
9/8/2021		0.064 (J)	0.79		
9/9/2021				0.41	
9/10/2021					2.7
2/1/2022	0.092	<0.08	0.85		
2/2/2022					2.4
2/3/2022				0.49	
9/1/2022	0.0238		0.921		
9/2/2022		0.0597			
9/6/2022				0.458	2.78
1/31/2023	0.0234		1.06	0.459	2.77
2/1/2023		0.0816			
8/8/2023	0.0199			0.379	3.06
8/9/2023			1.12		
8/10/2023		0.0714			
1/23/2024	0.0214	0.0685			4.52
1/24/2024			1.13	0.456	
8/20/2024	0.0236	0.0537	1.13	0.434	3.09

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/21/2025 7:27 AM View: Appendix III - Interwell PLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
2/4/2025	0.0373	0.0827	1.31	0.485	3.1

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 7:27 AM View: Appendix III - Interwell PLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/29/2016	11	8.3			
8/30/2016			46		
10/24/2016	11.5	7.66			
10/26/2016			44.3		
1/25/2017	13	9.4	50		
4/10/2017	11	8.6	52		
6/19/2017	12		55		
6/20/2017		9.4			
10/24/2017	12	9.9	56		
4/9/2018		9.9			
4/10/2018	12		51		
10/16/2018	14	9.8	57		
3/26/2019	15				
3/27/2019		9.2	58		
10/7/2019	14	8.9			
10/8/2019			60		
12/16/2019				69	200
1/14/2020				65	210
2/11/2020				10	180
3/9/2020				46	180
4/6/2020		9.5			
4/7/2020	14		69	65	190
5/27/2020				69	200
6/24/2020					180
6/25/2020	14	9.6	80	72	
7/15/2020				68	190
8/19/2020					220
8/20/2020				69	
9/22/2020				66	190
9/29/2020	12				
9/30/2020		9.9			200
10/1/2020			79	73	
2/9/2021	9.7	9.2			
2/10/2021			76	67	200
9/7/2021	9.2				
9/8/2021		11	81		
9/9/2021				70	
9/10/2021					200
2/1/2022	8	8.3	75		
2/2/2022					190
2/3/2022				71	
9/1/2022	8.52		71.5		
9/2/2022		9.48			
9/6/2022				65.2	162
1/31/2023	8.5		79.1	69.9	207
2/1/2023		10.8			
8/8/2023	8.51			66.6	196
8/9/2023			82.9		
8/10/2023		11			
1/23/2024	9.34	11.4			183
1/24/2024			82.6	75.6	
8/20/2024	8.29	10.6	78	79.6	194

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 7:27 AM View: Appendix III - Interwell PLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
2/4/2025	8.77	11.4	85.1	75.2	187

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 7:27 AM View: Appendix III - Interwell PLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-22	ARGWC-23
5/5/2009	11.1				
5/14/2009		6.38			
5/15/2009			6.86		
12/5/2009	9.46	6.28	5.06		
6/1/2010	6.32		5.47		
6/2/2010		6.1			
11/11/2010	7.08	6.15	5.18		
5/17/2011	6.84	6.17	4.8		
11/8/2011	9.13	6.6	5.62		
5/16/2012	10.8	6.18	5.1		
11/9/2012		6.19	5.06		
11/10/2012	14.8				
5/14/2013	16.2	6.32	5.25		
11/5/2013	14.8	5.65	5.19		
6/9/2014	13.6	6.08	5.55		
4/14/2015	10.4	5.43	5.39		
10/29/2015		5.62			
11/4/2015	9.19		5.38		
6/22/2016	8.4		5.7		
6/23/2016		5.9			
8/29/2016	8.4		5.3		
8/30/2016		5.5			
10/24/2016	9.6		5.4		
10/26/2016		6			
1/25/2017	8.7	5.4	5.1		
4/10/2017	8	5.1	4.9		
6/19/2017	7.6	5.2			
6/20/2017			5		
10/24/2017	7.2	4.9	4.6		
4/9/2018			4.7		
4/10/2018	7.2	4.8			
10/16/2018	10	5.1	5.3		
3/26/2019	12				
3/27/2019		4.4	4.6		
10/7/2019	11		5.2		
10/8/2019		4.5			
12/16/2019				5.8	3.9
1/14/2020				5.5	4
2/11/2020				9	4.7
3/9/2020				11	3.7
4/6/2020			5.2		
4/7/2020	11	4.2		8.1	3.8
5/27/2020				7.3	4
6/24/2020				5.7	
6/25/2020	11	3.7	5.1		3.4
7/15/2020				6	3.9
8/19/2020				5.7	
8/20/2020					3.9
9/22/2020				7.1	3.6
9/29/2020	10				
9/30/2020			5.6	8	
10/1/2020		4.3			3.8

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 7:27 AM View: Appendix III - Interwell PLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-22	ARGWC-23
2/9/2021	8.6		6		
2/10/2021		4.3		7.4	4.6
9/7/2021	7.4				
9/8/2021		4	5.9		
9/9/2021					4.7
9/10/2021				6.7	
2/1/2022	6.8	3.4	5.7		
2/2/2022				6.3	
2/3/2022					4.4
9/1/2022	6.27	3.34			
9/2/2022			5.44		
9/6/2022				8.34	3.73
1/31/2023	6.04	3.3		5.88	3.84
2/1/2023			6		
8/8/2023	6.37			6.79	3.6
8/9/2023		3.35			
8/10/2023			6.5		
1/23/2024	5.63		6.68	7.31	
1/24/2024		3.35			3.74
8/20/2024	4.89	3.18	7.63	7.25	3.68
2/4/2025	5.84	3.29	7.74	6.87	3.55

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 7:27 AM View: Appendix III - Interwell PLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
8/29/2016	<0.1	<0.1			
8/30/2016			0.099 (J)		
10/24/2016	0.07 (J)	0.04 (J)			
10/26/2016			0.57		
1/25/2017	<0.1	<0.1	0.12 (J)		
4/10/2017	<0.1	<0.1	0.11 (J)		
6/19/2017	<0.1		0.11 (J)		
6/20/2017		<0.1			
10/24/2017	<0.1	<0.1	0.1 (J)		
4/9/2018		<0.1			
4/10/2018	<0.1		0.094 (J)		
10/16/2018	0.083 (J)	<0.1	0.17 (J)		
3/26/2019	0.041 (J)				
3/27/2019		<0.1	0.05 (J)		
8/20/2019	0.045 (J)	0.042 (J)	0.098 (J)		
10/7/2019	0.049 (J)	0.036 (J)			
10/8/2019			0.065 (J)		
12/16/2019				0.026 (J)	0.18 (J)
1/14/2020				<0.1	0.21
2/11/2020				0.056 (J)	0.13
3/9/2020				0.064 (J)	0.089 (J)
4/6/2020		0.059 (J)			
4/7/2020	0.14		0.12	0.068 (J)	0.18
5/27/2020				0.06 (J)	0.25
6/24/2020				0.048 (J)	
6/25/2020	0.03 (J)	<0.1	0.041 (J)		0.25
7/15/2020				0.04 (J)	0.28
8/19/2020	<0.1	<0.1		<0.1	
8/20/2020					0.19
8/21/2020			0.084 (J)		
9/22/2020				0.049 (J)	0.33
9/29/2020	0.051 (J)				
9/30/2020		0.032 (J)		0.045 (J)	
10/1/2020			0.098 (J)		0.32
2/9/2021	0.059 (J)	0.048 (J)			
2/10/2021			0.14	0.055 (J)	0.41
9/7/2021	0.1				
9/8/2021		0.067 (J)	0.16		
9/9/2021					0.48
9/10/2021				0.035 (J)	
2/1/2022	0.076 (J)	0.028 (J)	0.11		
2/2/2022				0.04 (J)	
2/3/2022					0.4
9/1/2022	0.148		0.161		
9/2/2022		0.122			
9/6/2022				0.056 (J)	0.362
1/31/2023	0.108		0.175	0.0979 (J)	0.551
2/1/2023		0.121			
8/8/2023	<0.1			<0.1	0.283
8/9/2023			0.203		
8/10/2023		<0.1			
1/23/2024	0.121	0.113		0.134	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 7:27 AM View: Appendix III - Interwell PLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
1/24/2024			0.173		0.391
8/20/2024	0.0679 (J)	0.0488 (J)	0.124	0.066 (J)	0.365
2/4/2025	0.0704 (J)	0.049 (J)	0.131	0.28 (J)	0.286

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/21/2025 7:27 AM View: Appendix III - Interwell PLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
6/22/2016	5.86	5.5			
6/23/2016			6.19		
8/29/2016	6.75 (O)	5.64			
8/30/2016			6.38		
10/24/2016	5.81	5.6			
10/26/2016			6.23		
1/25/2017	5.91	5.65	6.15		
4/10/2017	5.74	5.42	5.99		
6/19/2017	5.54		5.95		
6/20/2017		5.59			
10/24/2017	5.82	5.58	6.02		
4/9/2018		5.78			
4/10/2018	5.92		6.12		
10/16/2018	5.94	5.69	6.12		
3/26/2019	5.85				
3/27/2019		5.96	6.2		
8/20/2019	5.9	5.57	6.08		
10/7/2019	5.89	5.65			
10/8/2019			6.11		
12/16/2019				6.41 (D)	5.74 (D)
1/14/2020				6.62	5.91 (D)
2/11/2020				6.41	5.9
3/9/2020				6.32	5.97
4/6/2020		5.53			
4/7/2020	5.72		5.96	6.4	5.84
5/27/2020				6.3	5.69 (D)
6/24/2020					5.82
6/25/2020	5.8	5.61	5.98	6.37	
7/15/2020				6.36	5.58
8/19/2020	6.25	6.16			6.21
8/20/2020				6.33	
8/21/2020			5.89		
9/22/2020				6.29	5.77
9/29/2020	5.83				
9/30/2020		5.65			5.81
10/1/2020			5.99	6.38	
2/9/2021	5.97	5.66			
2/10/2021			6.01	6.37	5.68
9/7/2021	5.85				
9/8/2021		5.59	5.94		
9/9/2021				6.35	
9/10/2021					5.62
2/1/2022	5.52	5.14	5.65		
2/2/2022					5.7
2/3/2022				6.44	
9/1/2022	5.88		5.97		
9/2/2022		5.68			
9/6/2022				6.41	5.88
1/31/2023	5.86		6.07	6.46	5.61
2/1/2023		5.7			
8/8/2023	5.81			6.33	5.61
8/9/2023			6.6		

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/21/2025 7:27 AM View: Appendix III - Interwell PLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-23	ARGWC-22
8/10/2023		5.55			
1/23/2024	5.93	5.77			5.88
1/24/2024			6.03	6.43	
8/20/2024	5.93	5.83	6.2	6.34	5.76
2/4/2025	5.86	5.71	6.02	6.42	5.73

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 7:27 AM View: Appendix III - Interwell PLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
5/5/2009	15.9				
5/14/2009		129			
5/15/2009			41.3 (O)		
12/5/2009	15.1	136	16.2		
6/1/2010	12.7		18.2		
6/2/2010		138			
11/11/2010	12.2	131	17		
5/17/2011	11.2	132	16		
11/8/2011	11.3	138	21		
5/16/2012	9.38	132	17.7		
11/9/2012		123	20		
11/10/2012	9.07				
5/14/2013	8.74	129	19.5		
11/5/2013	9.12	122	18.3		
6/9/2014	8.61	131	18.6		
4/14/2015	8.45	128	18.8		
10/29/2015		134			
11/4/2015	9.01		17.4		
6/22/2016	9.3		18		
6/23/2016		150			
8/29/2016	8.7		18		
8/30/2016		140			
10/24/2016	9.3		18		
10/26/2016		160			
1/25/2017	8.8	150	19		
4/10/2017	7.8	140	16		
6/19/2017	8.6	160			
6/20/2017			18		
10/24/2017	9.1	160	19		
4/9/2018			18		
4/10/2018	7.9	170			
10/16/2018	8.2	170	18		
3/26/2019	6.1				
3/27/2019		170	15		
10/7/2019	7.4		17		
10/8/2019		170			
12/16/2019				66	770
1/14/2020				68	930
2/11/2020				18	660
3/9/2020				49	630
4/6/2020			15		
4/7/2020	8.4	180		58	710
5/27/2020				65	720
6/24/2020					810
6/25/2020	9.8	210	16	77	
7/15/2020				78	820
8/19/2020					1000
8/20/2020				69	
9/22/2020				68	720
9/29/2020	8.4				
9/30/2020			15		650
10/1/2020		210		64	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 7:27 AM View: Appendix III - Interwell PLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWC-21	ARGWA-20 (bg)	ARGWC-23	ARGWC-22
2/9/2021	10		16		
2/10/2021		220		67	750
9/7/2021	9.9				
9/8/2021		230	16		
9/9/2021				72	
9/10/2021					760
2/1/2022	10	230	18		
2/2/2022					720
2/3/2022				64	
9/1/2022	8.38	221			
9/2/2022			18.5		
9/6/2022				65.3	667
1/31/2023	7.55	260		55.5	751
2/1/2023			19.3		
8/8/2023	8.29			69.8	719
8/9/2023		214			
8/10/2023			18.5		
1/23/2024	6.98		17.1		567
1/24/2024		219		78.4	
8/20/2024	7.07	219	16.4	80.1	674
2/4/2025	8	216	16.3	77.6	656

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/21/2025 7:27 AM View: Appendix III - Interwell PLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWA-19 (bg)	ARGWA-20 (bg)	ARGWC-21	ARGWC-22	ARGWC-23
8/29/2016	130	100			
8/30/2016			350		
10/24/2016	108	91			
10/26/2016			357		
1/25/2017	120	90	320		
4/10/2017	130	110	380		
6/19/2017	86		370		
6/20/2017		72			
10/24/2017	120	110	420		
4/9/2018		100			
4/10/2018	120		370		
10/16/2018	140	110	380		
3/26/2019	170				
3/27/2019		100	400		
10/7/2019	150	87			
10/8/2019			420		
12/16/2019				1300	320
1/14/2020				1400	340
2/11/2020				1300	110
3/9/2020				1200	210
4/6/2020		90			
4/7/2020	120		460	1300	290
5/27/2020				1300	320
7/15/2020				1400	310
8/19/2020				1400	
8/20/2020					310
9/22/2020				1300	310
9/29/2020	110				
9/30/2020		82		1200	
10/1/2020			500		290
2/9/2021	110	100			
2/10/2021			510	1200	290
9/7/2021	110				
9/8/2021		120	560		
9/9/2021					320
9/10/2021				1300	
2/1/2022	91	100	520		
2/2/2022				1200	
2/3/2022					320
9/1/2022	81		537		
9/2/2022		101			
9/6/2022				1180	305
1/31/2023	95		526	1320	299
2/1/2023		90			
8/8/2023	62			1220	294
8/9/2023			520		
8/10/2023		105			
1/23/2024	82	92		1110	
1/24/2024			541		342
8/20/2024	91	113	520	1180	328
2/4/2025	78	104	534	1140	320

FIGURE F.

Appendix I - Trend Tests - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/21/2025, 7:44 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	**ARGWA-19 (bg)**	**-0.001478**	**-286**	**-206**	**Yes**	**38**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Barium (mg/L)	**ARGWA-20 (bg)**	**0.0009855**	**292**	**206**	**Yes**	**38**	**0**	**n/a**	**n/a**	**0.01**	**NP**

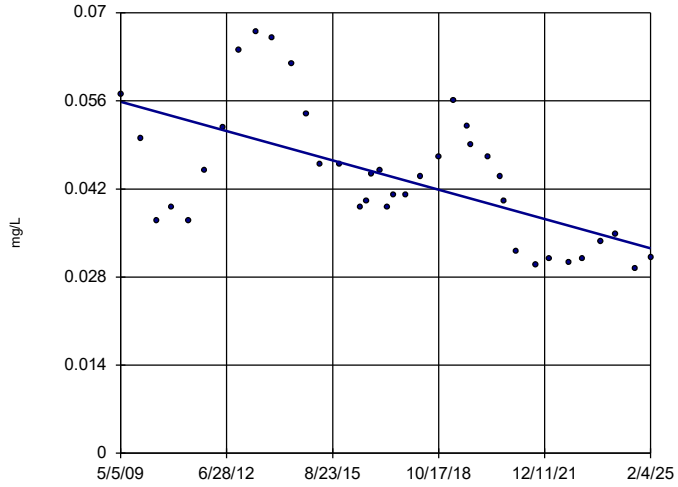
Appendix I - Trend Tests - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/21/2025, 7:44 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	**ARGWA-19 (bg)**	**-0.001478**	**-286**	**-206**	**Yes**	**38**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Barium (mg/L)	**ARGWA-20 (bg)**	**0.0009855**	**292**	**206**	**Yes**	**38**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Barium (mg/L)	ARGWC-23	-0.004479	-29	-74	No	19	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

ARGWA-19 (bg)



n = 38

Slope = -0.001478 units per year.

Mann-Kendall statistic = -286 critical = -206

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 5/21/2025 7:43 AM View: Appendix I - Trend

Plant Arkwright Client: Southern Company Data: Arkwright No 2

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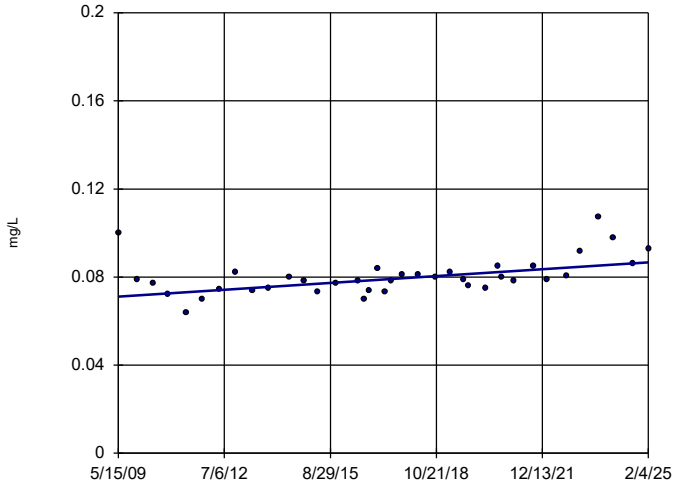
Sen's Slope Estimator

ARGWA-20 (bg)



n = 38

Slope = 0.0009855 units per year.

Mann-Kendall statistic = 292 critical = 206

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 5/21/2025 7:43 AM View: Appendix I - Trend

Plant Arkwright Client: Southern Company Data: Arkwright No 2

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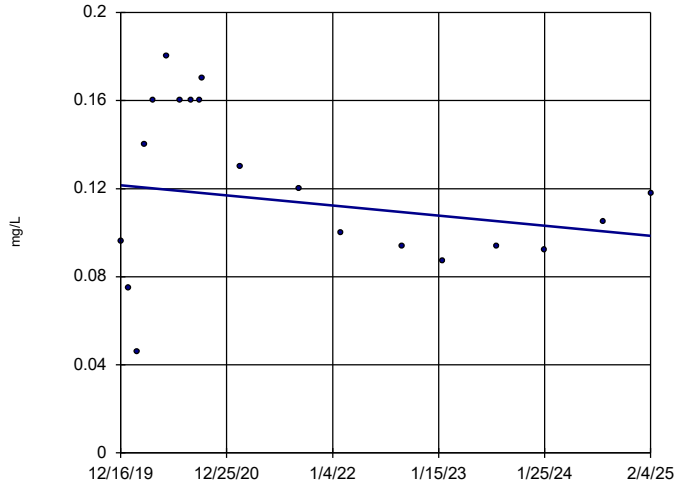
Sen's Slope Estimator

ARGWC-23



n = 19

Slope = -0.004479 units per year.

Mann-Kendall statistic = -29 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 5/21/2025 7:43 AM View: Appendix I - Trend

Plant Arkwright Client: Southern Company Data: Arkwright No 2

FIGURE G.

Appendix III - Trend Tests - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/21/2025, 7:45 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**ARGWC-21**	**0.08202**	**196**	**92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**ARGWA-20 (bg)**	**0.2882**	**115**	**92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**ARGWC-21**	**4.662**	**181**	**92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**ARGWC-23**	**2.036**	**84**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride (mg/L)	**ARGWC-23**	**0.06401**	**106**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWA-19 (bg)**	**-0.2237**	**-315**	**-191**	**Yes**	**36**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**ARGWC-21**	**7.926**	**462**	**191**	**Yes**	**36**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**ARGWA-19 (bg)**	**-5.76**	**-101**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**ARGWC-21**	**26.53**	**160**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**ARGWC-22**	**-30.67**	**-76**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III - Trend Tests - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/21/2025, 7:45 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	ARGWA-19 (bg)	0	-3	-92	No	22	31.82	n/a	n/a	0.01	NP
Boron (mg/L)	ARGWA-20 (bg)	0.003217	77	92	No	22	18.18	n/a	n/a	0.01	NP
Boron (mg/L)	**ARGWC-21**	**0.08202**	**196**	**92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	ARGWC-23	0.009053	43	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	ARGWC-22	0.07995	58	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	ARGWA-19 (bg)	-0.4593	-86	-92	No	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**ARGWA-20 (bg)**	**0.2882**	**115**	**92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**ARGWC-21**	**4.662**	**181**	**92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**ARGWC-23**	**2.036**	**84**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	ARGWC-22	0	-11	-81	No	20	0	n/a	n/a	0.01	NP
Fluoride (mg/L)	ARGWA-19 (bg)	0	14	105	No	24	33.33	n/a	n/a	0.01	NP
Fluoride (mg/L)	ARGWA-20 (bg)	0	-11	-105	No	24	45.83	n/a	n/a	0.01	NP
Fluoride (mg/L)	**ARGWC-23**	**0.06401**	**106**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	ARGWA-19 (bg)	0.006013	32	105	No	24	0	n/a	n/a	0.01	NP
pH, Field (SU)	ARGWA-20 (bg)	0.01538	74	111	No	25	0	n/a	n/a	0.01	NP
pH, Field (SU)	ARGWC-23	0.001975	7	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**ARGWA-19 (bg)**	**-0.2237**	**-315**	**-191**	**Yes**	**36**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	ARGWA-20 (bg)	-0.1019	-110	-184	No	35	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**ARGWC-21**	**7.926**	**462**	**191**	**Yes**	**36**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	ARGWC-23	2.717	62	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	ARGWC-22	-19.28	-45	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	**ARGWA-19 (bg)**	**-5.76**	**-101**	**-87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	ARGWA-20 (bg)	0.4934	32	87	No	21	0	n/a	n/a	0.01	NP
TDS (mg/L)	**ARGWC-21**	**26.53**	**160**	**87**	**Yes**	**21**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	ARGWC-23	2.241	31	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	**ARGWC-22**	**-30.67**	**-76**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**

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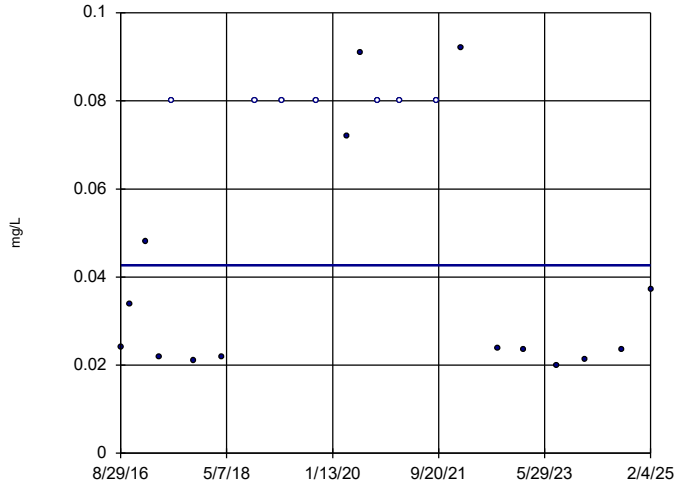
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-19 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -3 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend

Plant Arkwright Client: Southern Company Data: Arkwright No 2

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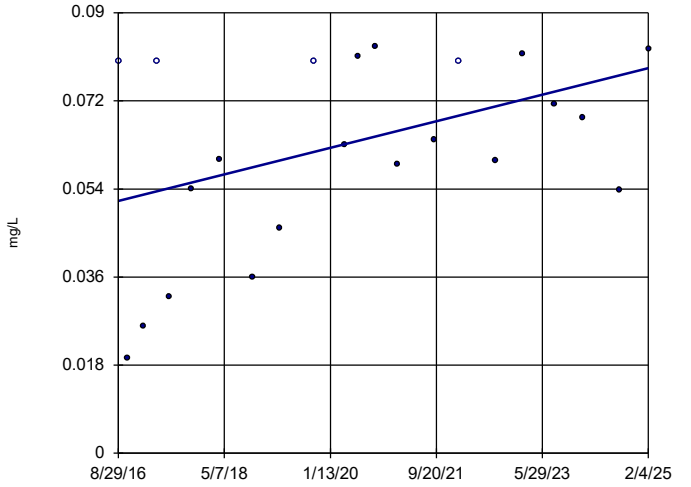
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-20 (bg)



n = 22

Slope = 0.003217 units per year.

Mann-Kendall statistic = 77 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend

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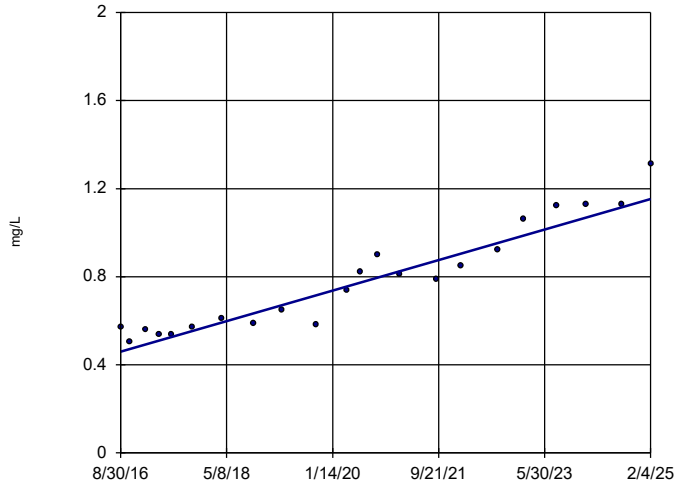
Sen's Slope Estimator

ARGWC-21



n = 22

Slope = 0.08202 units per year.

Mann-Kendall statistic = 196 critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend

Plant Arkwright Client: Southern Company Data: Arkwright No 2

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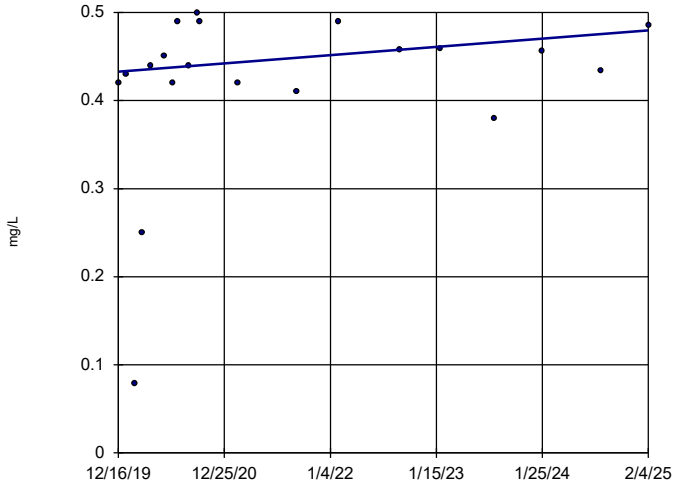
Sen's Slope Estimator

ARGWC-23



n = 20

Slope = 0.009053 units per year.

Mann-Kendall statistic = 43 critical = 81

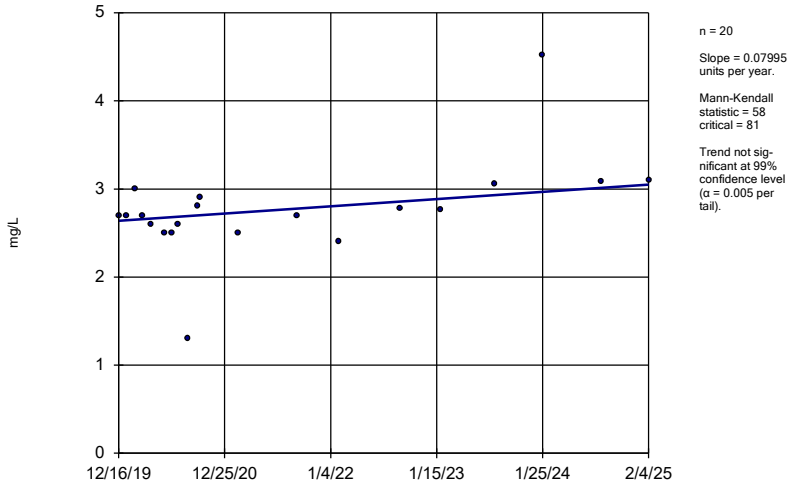
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWC-22



n = 20

Slope = 0.07995 units per year.

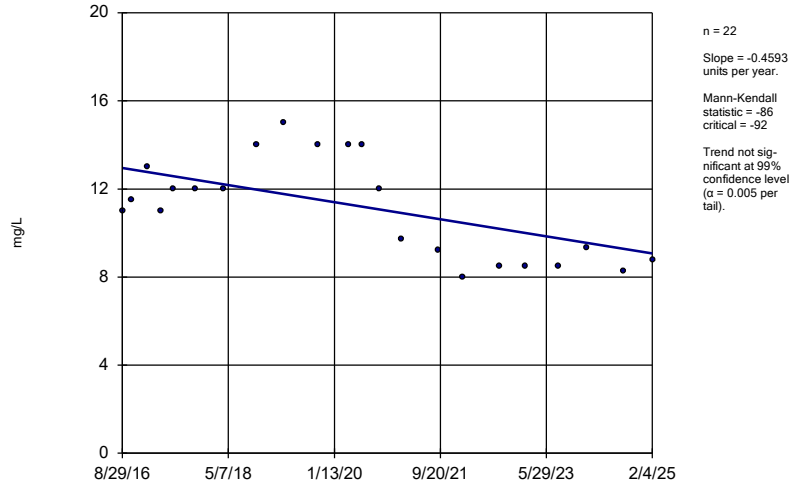
Mann-Kendall statistic = 58
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWA-19 (bg)



n = 22

Slope = -0.4593 units per year.

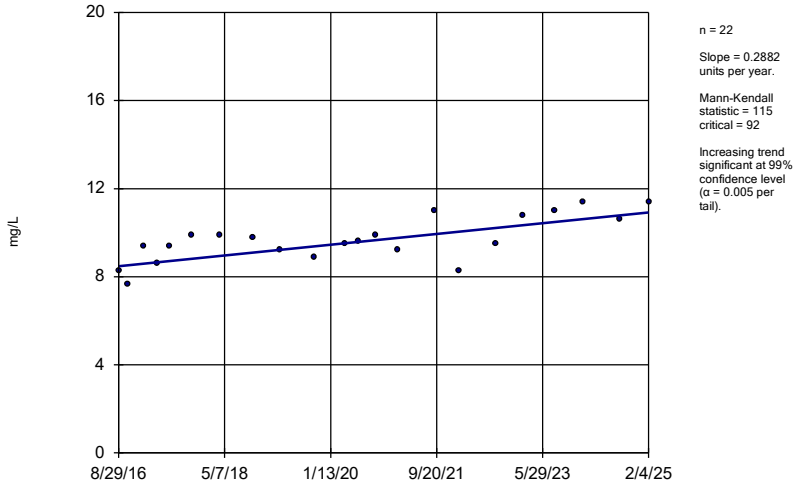
Mann-Kendall statistic = -86
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWA-20 (bg)



n = 22

Slope = 0.2882 units per year.

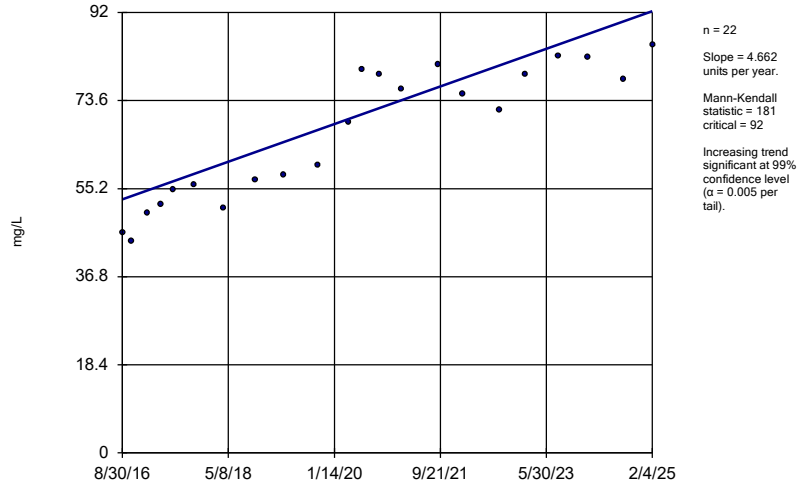
Mann-Kendall statistic = 115
critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWC-21



n = 22

Slope = 4.662 units per year.

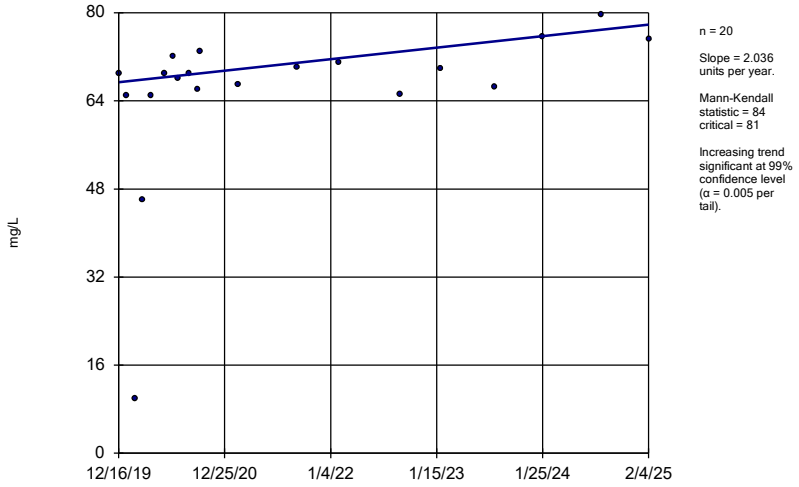
Mann-Kendall statistic = 181
critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWC-23



n = 20

Slope = 2.036 units per year.

Mann-Kendall statistic = 84
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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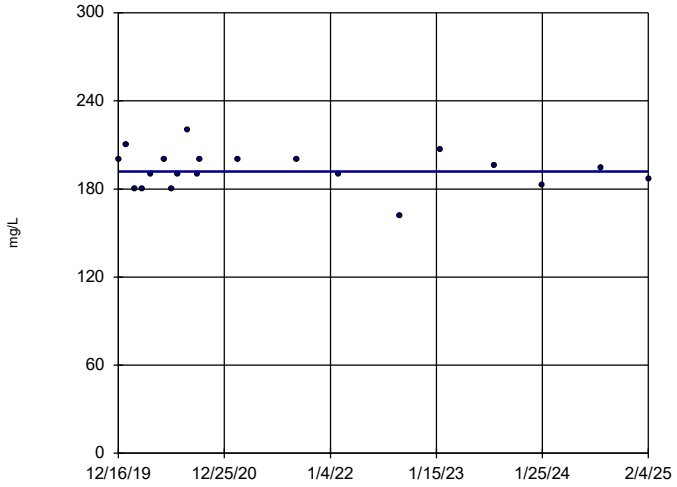
Sen's Slope Estimator

ARGWC-22



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -11
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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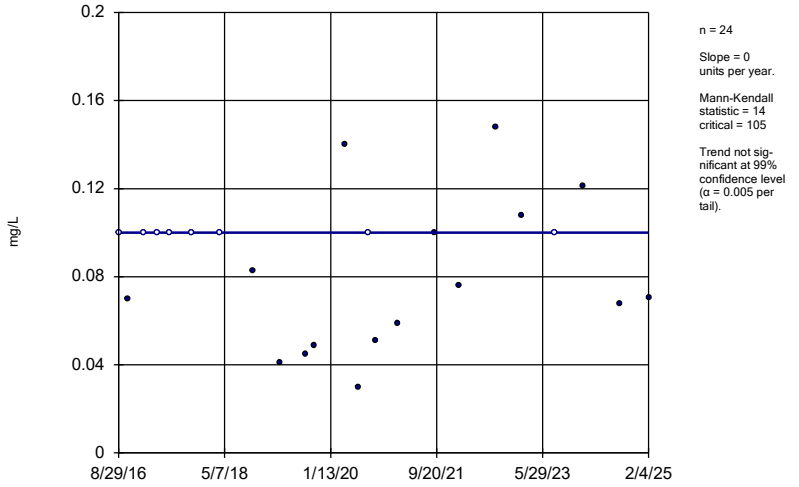
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-19 (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 14
critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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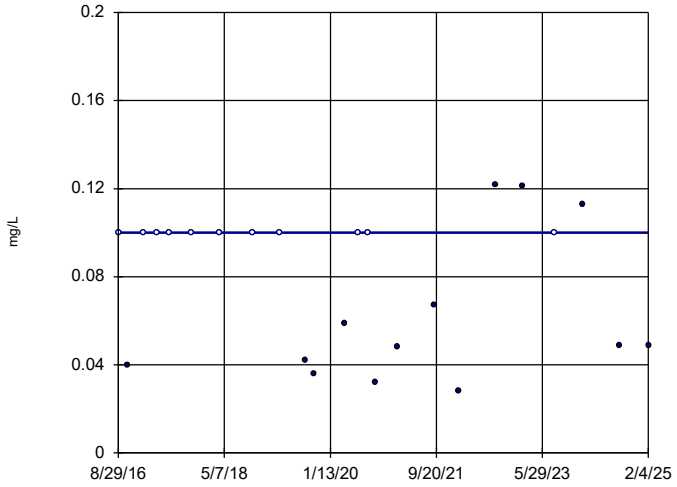
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-20 (bg)



n = 24

Slope = 0 units per year.

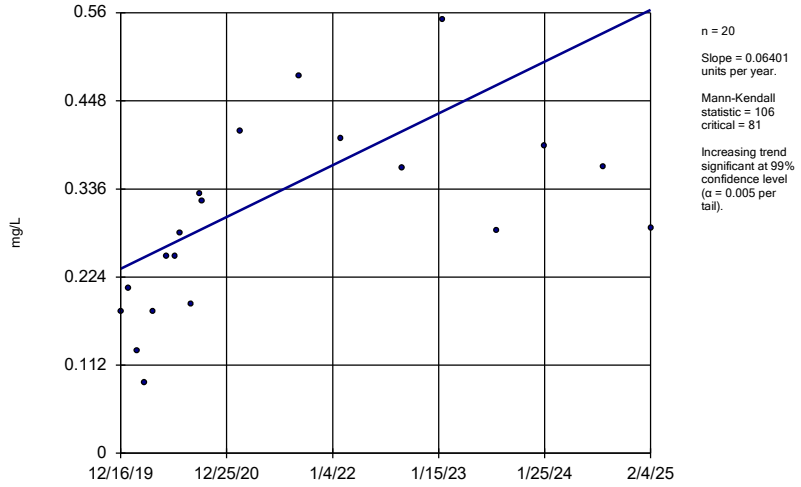
Mann-Kendall statistic = -11
critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWC-23



n = 20

Slope = 0.06401 units per year.

Mann-Kendall statistic = 106 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend

Plant Arkwright Client: Southern Company Data: Arkwright No 2

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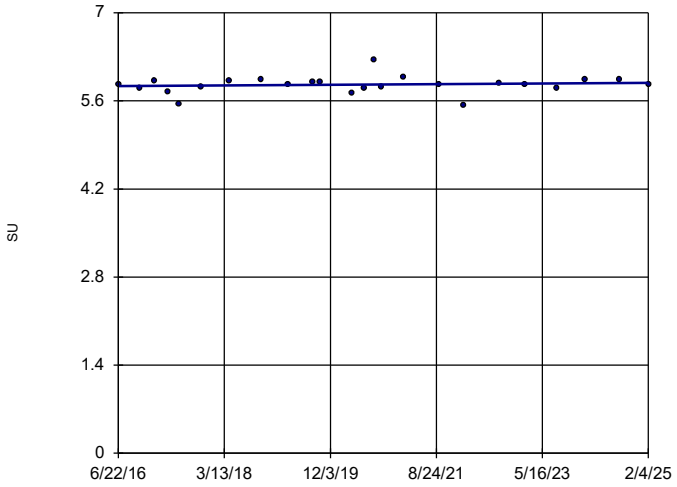
Sen's Slope Estimator

ARGWA-19 (bg)



n = 24

Slope = 0.006013 units per year.

Mann-Kendall statistic = 32 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend

Plant Arkwright Client: Southern Company Data: Arkwright No 2

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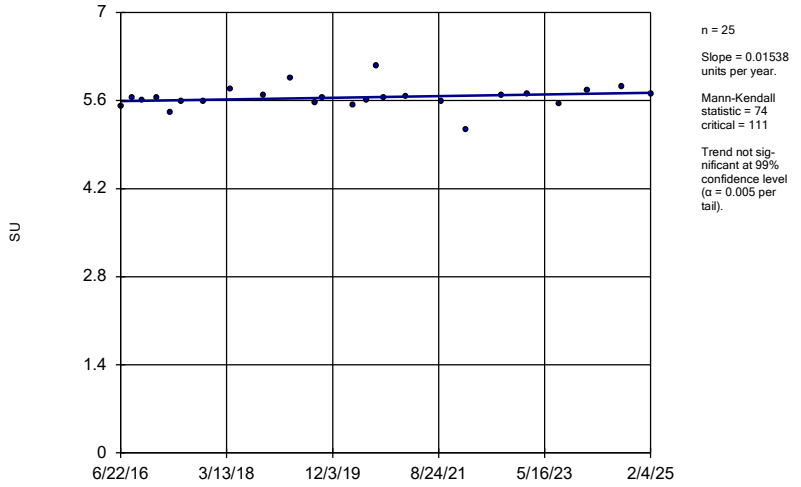
Sen's Slope Estimator

ARGWA-20 (bg)



n = 25

Slope = 0.01538 units per year.

Mann-Kendall statistic = 74 critical = 111

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend

Plant Arkwright Client: Southern Company Data: Arkwright No 2

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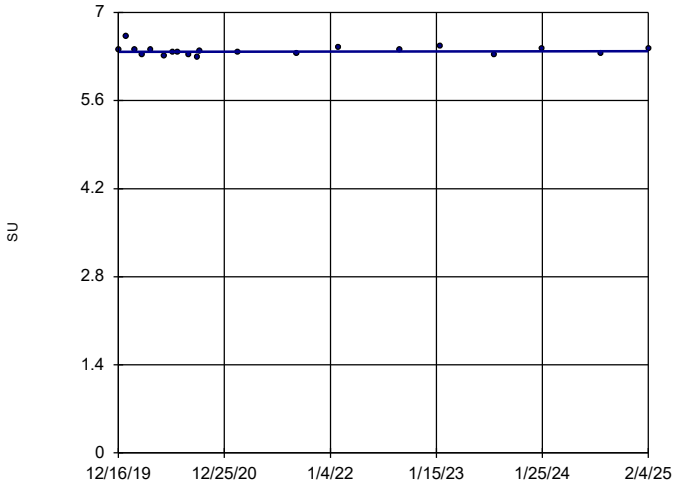
Sen's Slope Estimator

ARGWC-23



n = 20

Slope = 0.001975 units per year.

Mann-Kendall statistic = 7 critical = 81

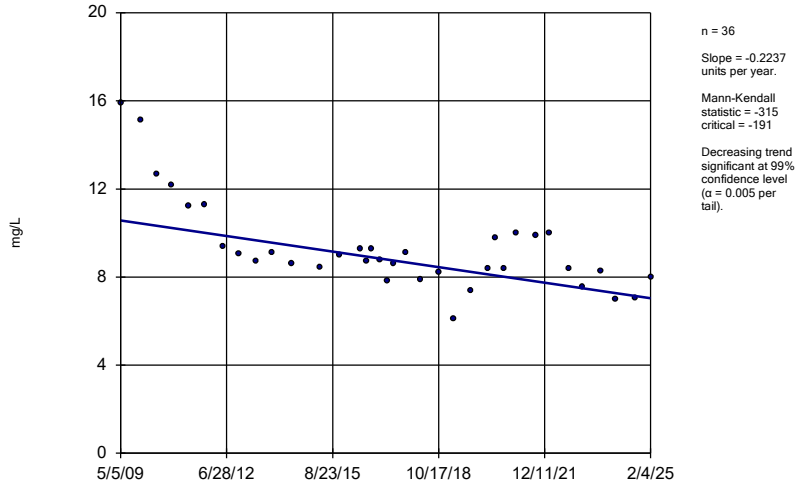
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWA-19 (bg)



n = 36

Slope = -0.2237 units per year.

Mann-Kendall statistic = -315
critical = -191

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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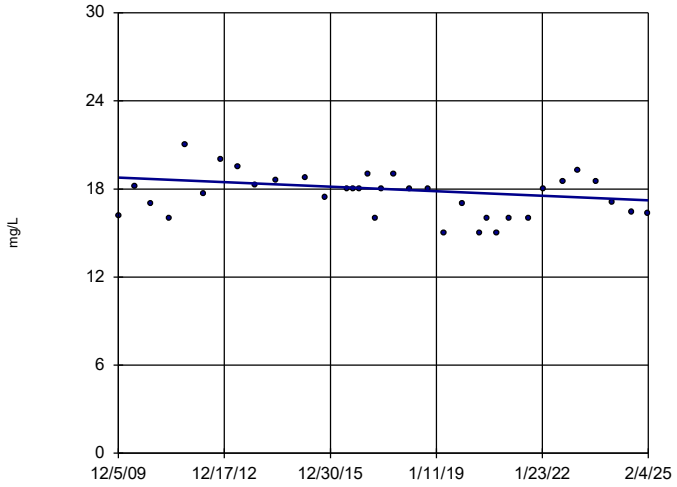
Sen's Slope Estimator

ARGWA-20 (bg)



n = 35

Slope = -0.1019 units per year.

Mann-Kendall statistic = -110
critical = -184

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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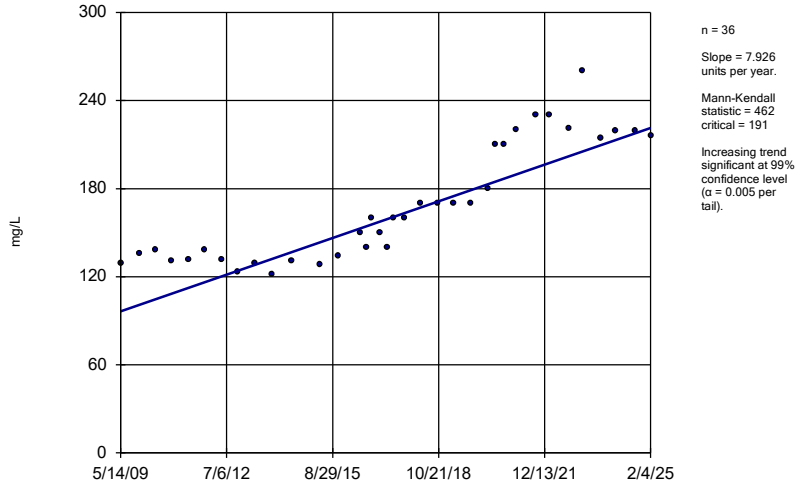
Sen's Slope Estimator

ARGWC-21



n = 36

Slope = 7.926 units per year.

Mann-Kendall statistic = 462
critical = 191

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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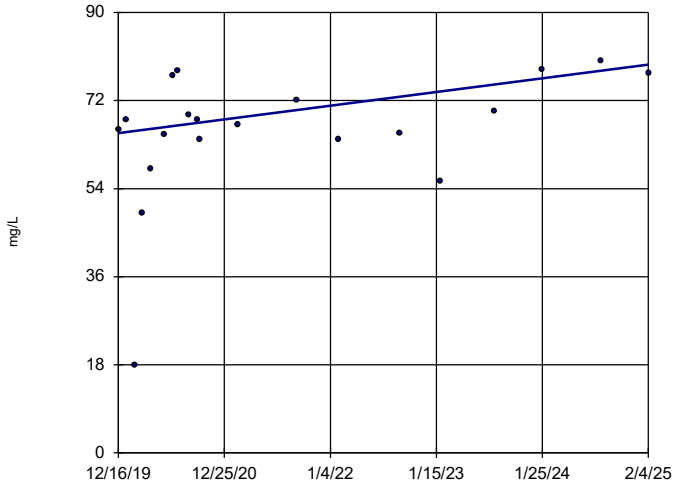
Sen's Slope Estimator

ARGWC-23



n = 20

Slope = 2.717 units per year.

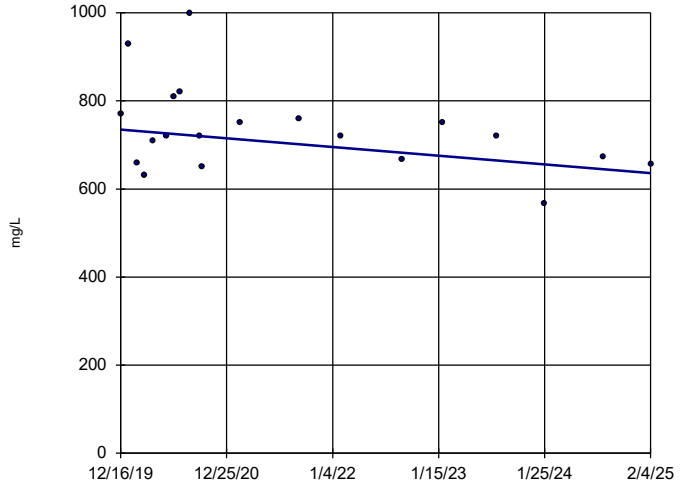
Mann-Kendall statistic = 62
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWC-22



n = 20

Slope = -19.28 units per year.

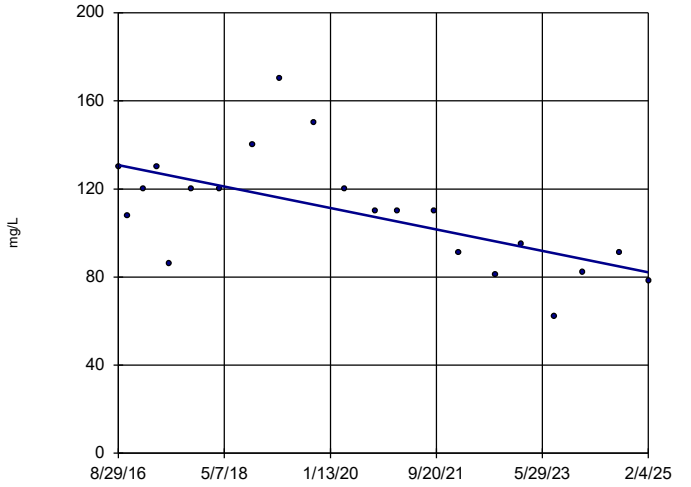
Mann-Kendall statistic = -45
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWA-19 (bg)



n = 21

Slope = -5.76 units per year.

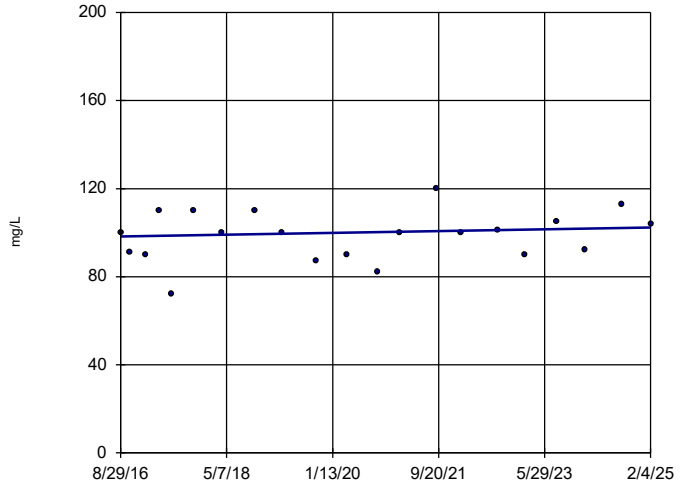
Mann-Kendall statistic = -101
critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWA-20 (bg)



n = 21

Slope = 0.4934 units per year.

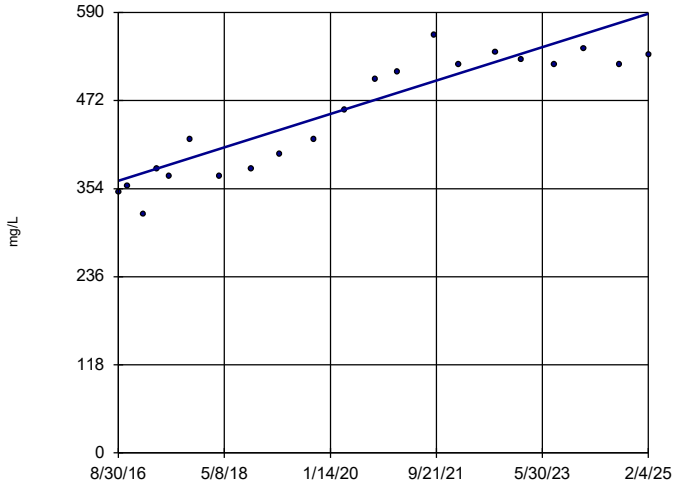
Mann-Kendall statistic = 32
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWC-21



n = 21

Slope = 26.53 units per year.

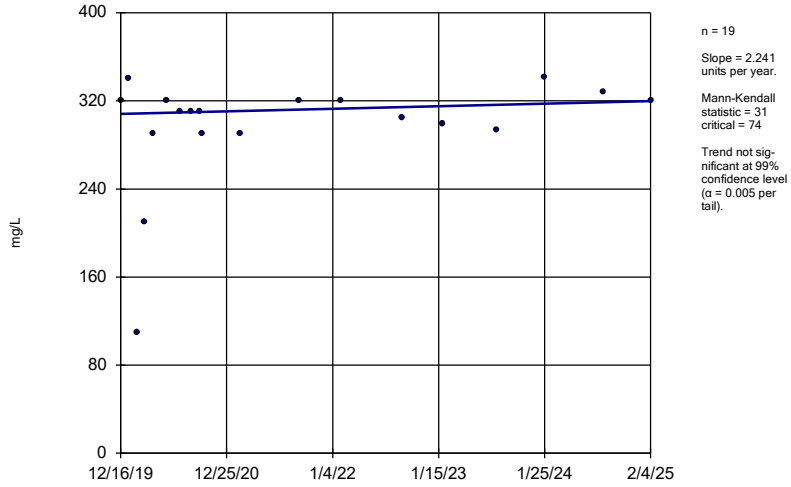
Mann-Kendall statistic = 160
critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWC-23



n = 19

Slope = 2.241 units per year.

Mann-Kendall statistic = 31
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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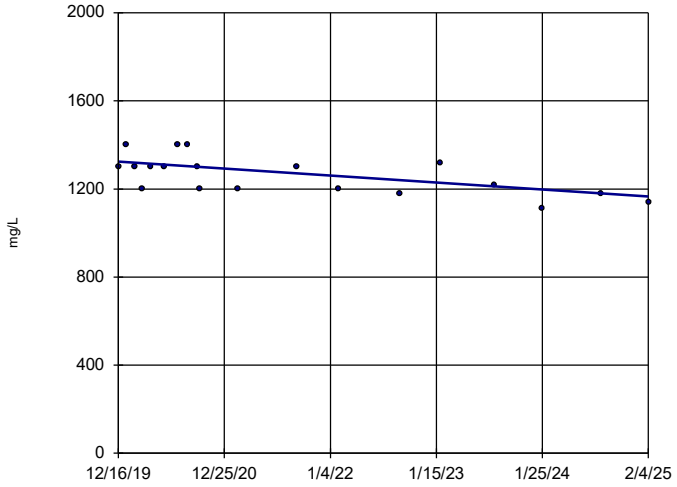
Sen's Slope Estimator

ARGWC-22



n = 19

Slope = -30.67 units per year.

Mann-Kendall statistic = -76
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/21/2025 7:44 AM View: Appendix III - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

FIGURE H.

Upper Tolerance Limits

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/21/2025, 7:34 AM

Constituent	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	0.003	n/a	n/a	n/a	36	100	n/a	0.1578	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	n/a	76	88.16	n/a	0.02028	NP Inter(NDs)
Barium (mg/L)	0.107	n/a	n/a	n/a	76	0	n/a	0.02028	NP Inter(normality)
Beryllium (mg/L)	0.0005	n/a	n/a	n/a	40	90	n/a	0.1285	NP Inter(NDs)
Cadmium (mg/L)	0.001	n/a	n/a	n/a	76	98.68	n/a	0.02028	NP Inter(NDs)
Chromium (mg/L)	0.01	n/a	n/a	n/a	44	27.27	n/a	0.1047	NP Inter(normality)
Cobalt (mg/L)	0.001	n/a	n/a	n/a	46	67.39	n/a	0.09447	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	2.65	n/a	n/a	n/a	44	0	n/a	0.1047	NP Inter(normality)
Fluoride (mg/L)	0.148	n/a	n/a	n/a	48	39.58	n/a	0.08526	NP Inter(normality)
Lead (mg/L)	0.002	n/a	n/a	n/a	76	88.16	n/a	0.02028	NP Inter(NDs)
Lithium (mg/L)	0.013	n/a	n/a	n/a	46	43.48	n/a	0.09447	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	n/a	36	94.44	n/a	0.1578	NP Inter(NDs)
Molybdenum (mg/L)	0.001	n/a	n/a	n/a	42	80.95	n/a	0.116	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	n/a	75	69.33	n/a	0.02134	NP Inter(NDs)
Silver (mg/L)	0.001	n/a	n/a	n/a	66	92.42	n/a	0.03387	NP Inter(NDs)
Thallium (mg/L)	0.002	n/a	n/a	n/a	36	97.22	n/a	0.1578	NP Inter(NDs)

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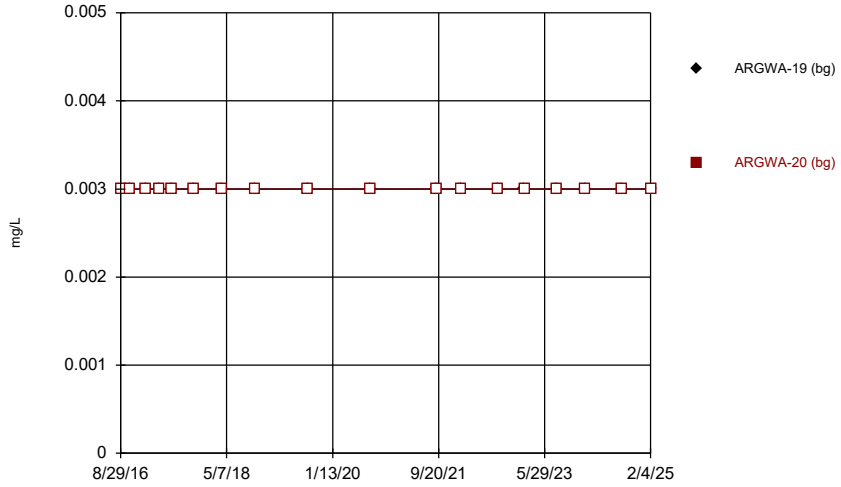
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 5/21/2025 7:33 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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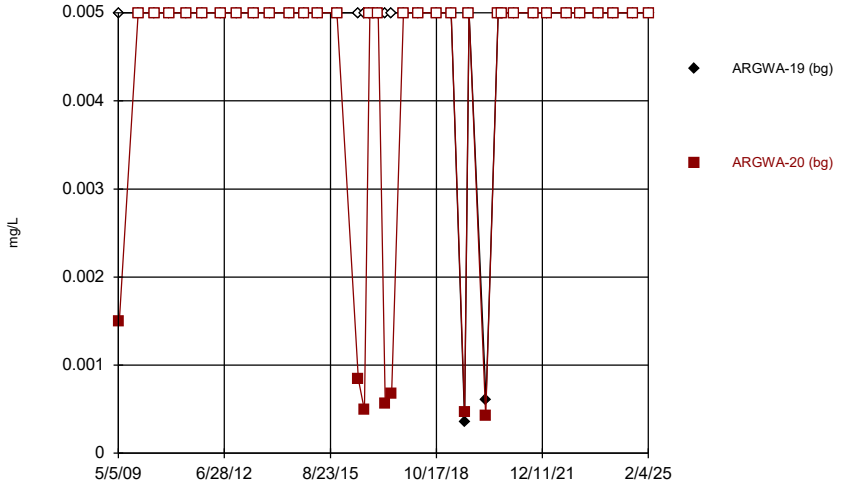
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 5/21/2025 7:33 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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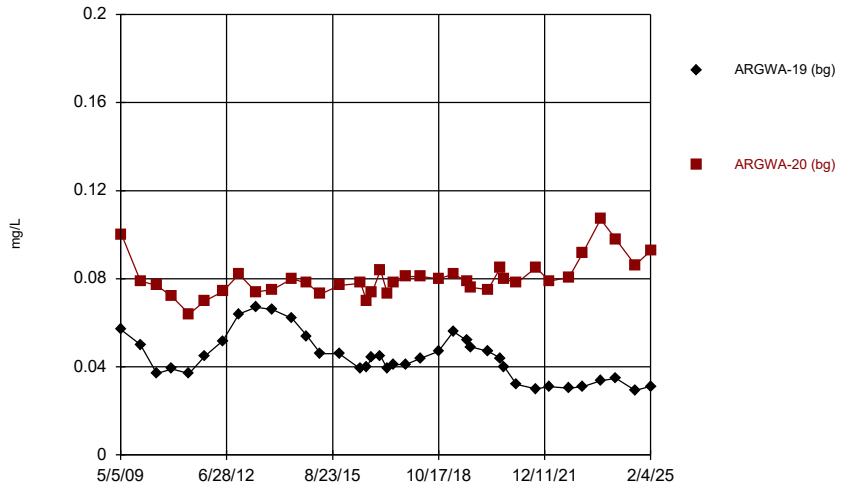
Time Series



Constituent: Barium Analysis Run 5/21/2025 7:33 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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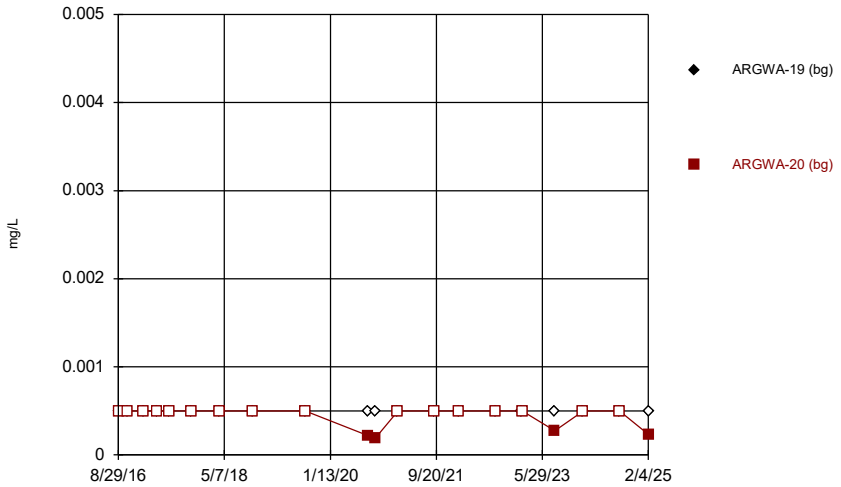
Hollow symbols indicate censored values.

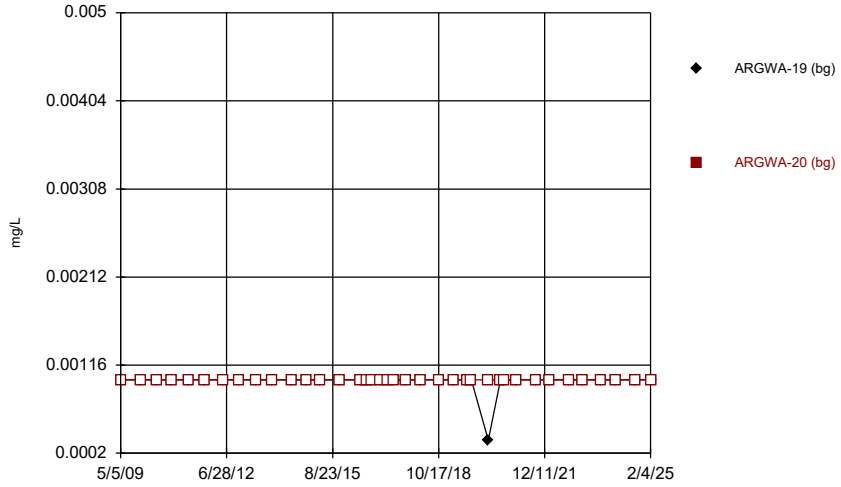
Time Series



Constituent: Beryllium Analysis Run 5/21/2025 7:33 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

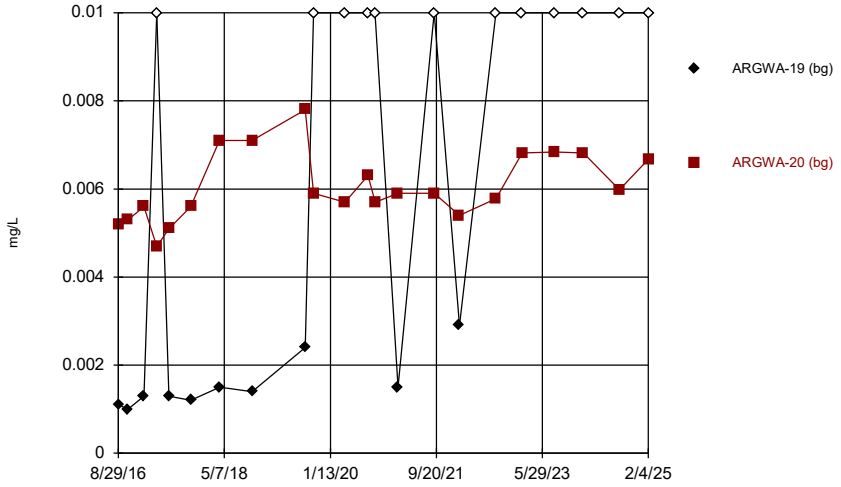
Time Series



Constituent: Cadmium Analysis Run 5/21/2025 7:33 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Analysis Run 5/21/2025 7:33 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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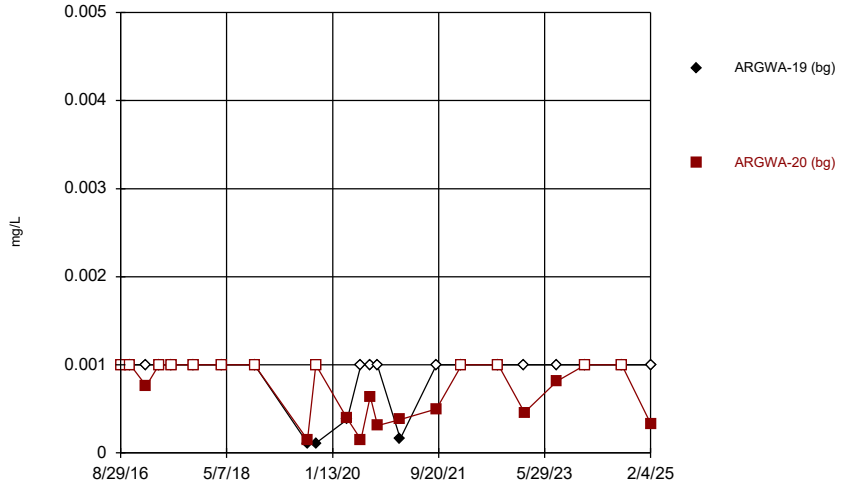
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 5/21/2025 7:33 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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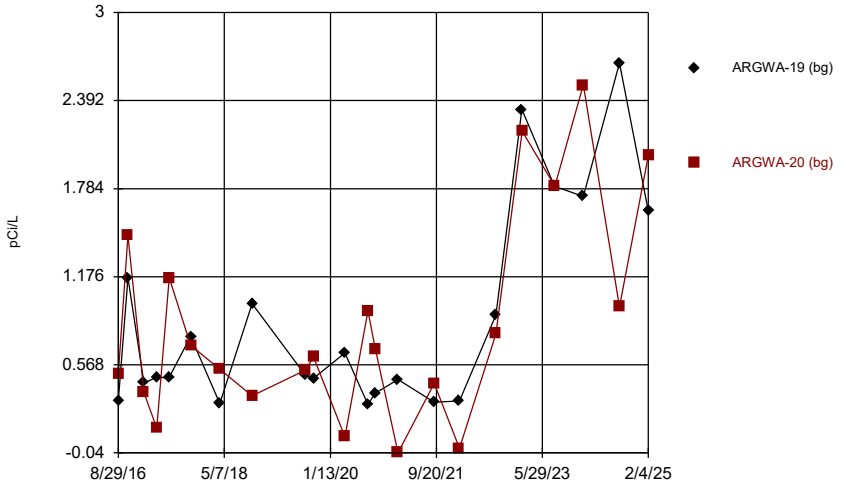
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 7:33 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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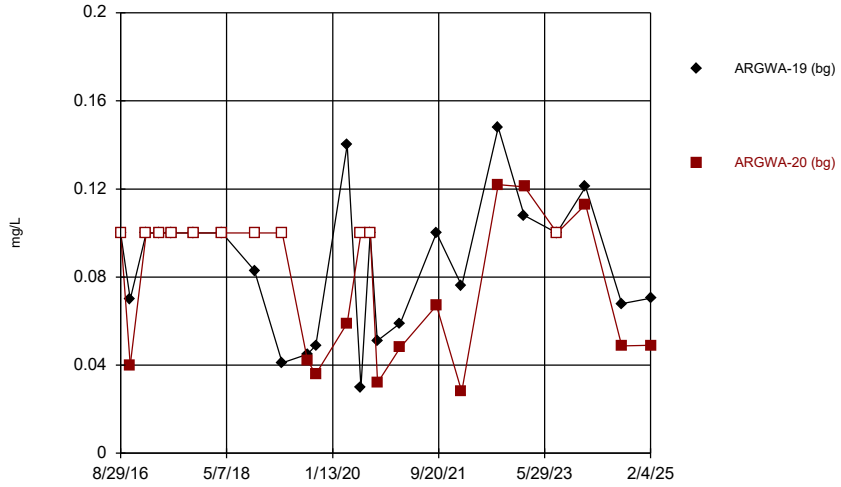
Hollow symbols indicate censored values.

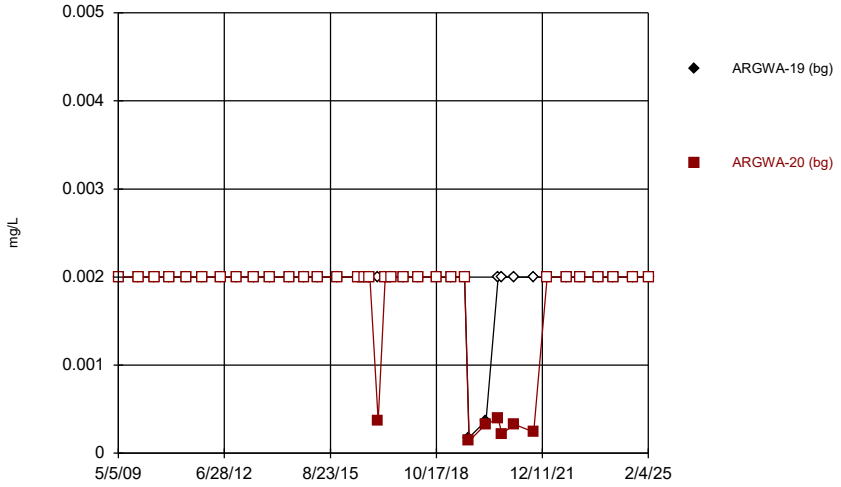
Time Series



Constituent: Fluoride Analysis Run 5/21/2025 7:33 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

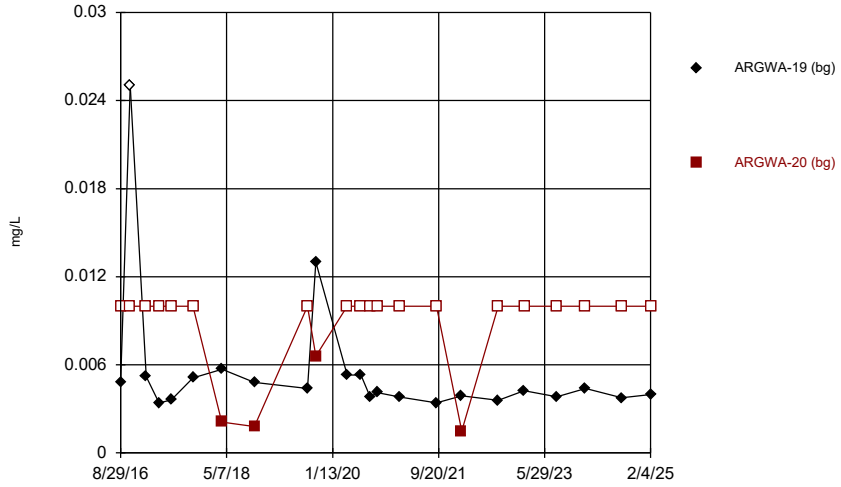
Time Series



Constituent: Lead Analysis Run 5/21/2025 7:33 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

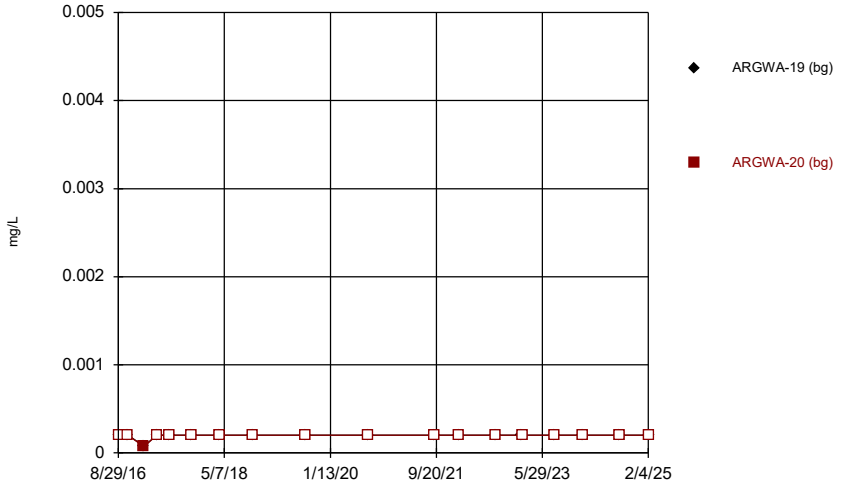
Time Series



Constituent: Lithium Analysis Run 5/21/2025 7:33 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

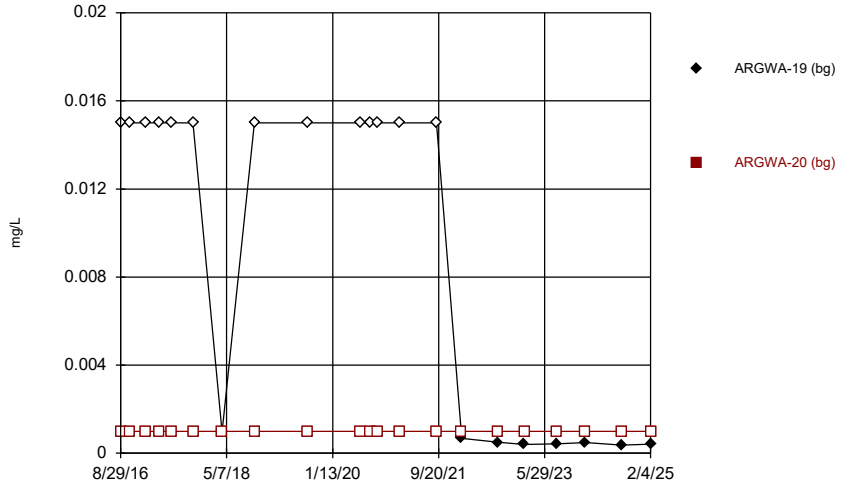
Time Series



Constituent: Mercury Analysis Run 5/21/2025 7:33 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

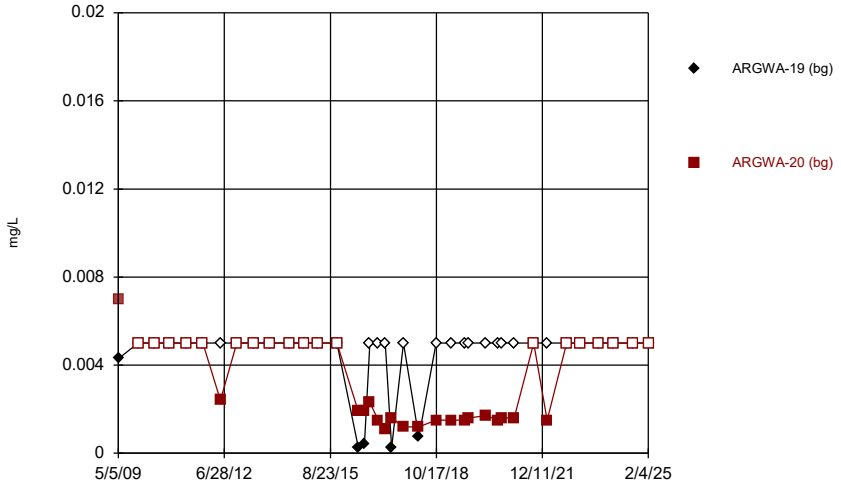
Time Series



Constituent: Molybdenum Analysis Run 5/21/2025 7:33 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

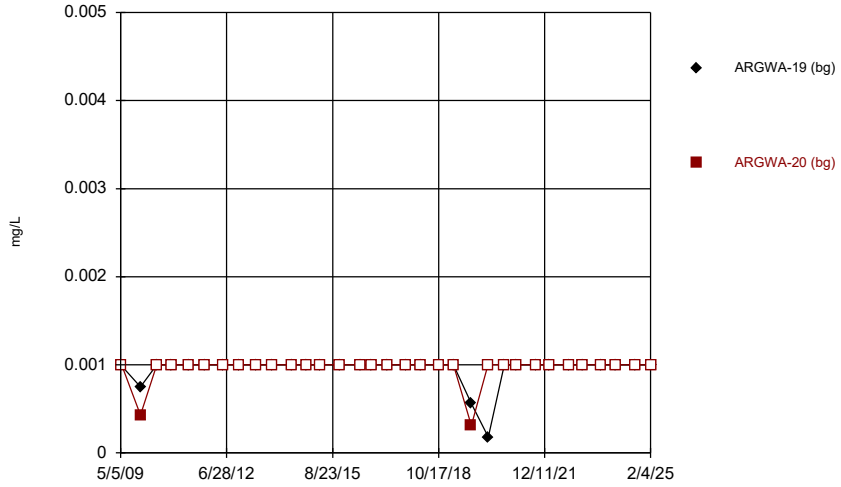
Time Series



Constituent: Selenium Analysis Run 5/21/2025 7:33 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

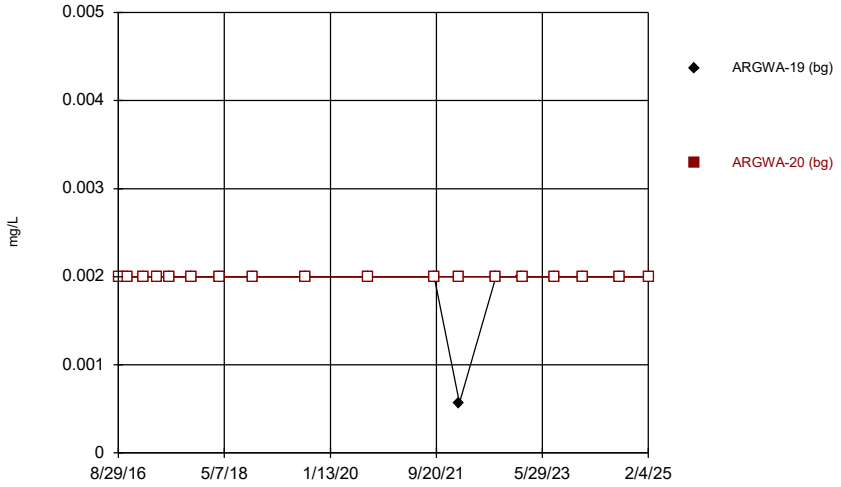
Time Series



Constituent: Silver Analysis Run 5/21/2025 7:33 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

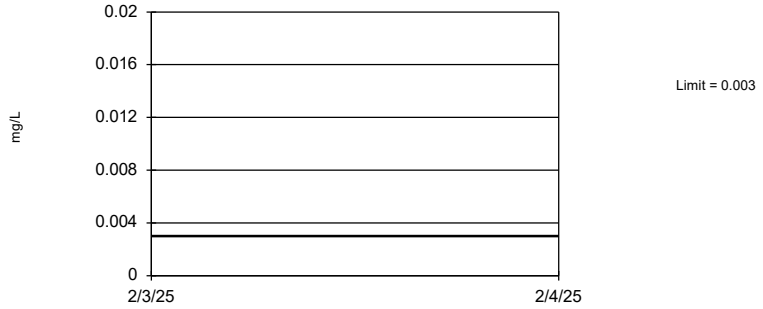
Time Series



Constituent: Thallium Analysis Run 5/21/2025 7:33 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 88.09% coverage at alpha=0.01; 91.99% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1578.

Constituent: Antimony Analysis Run 5/21/2025 7:32 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

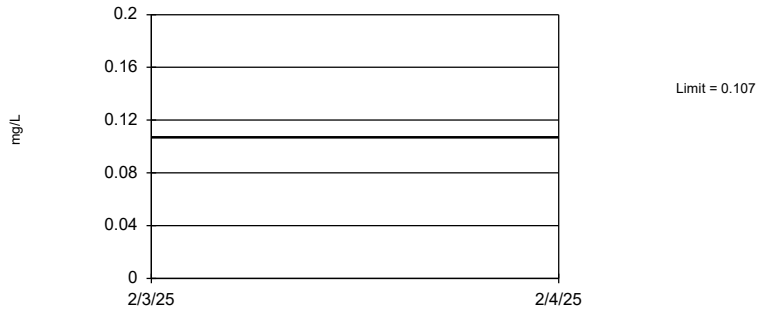
Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 76 background values. 88.16% NDs. 93.95% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02028.

Constituent: Arsenic Analysis Run 5/21/2025 7:32 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric

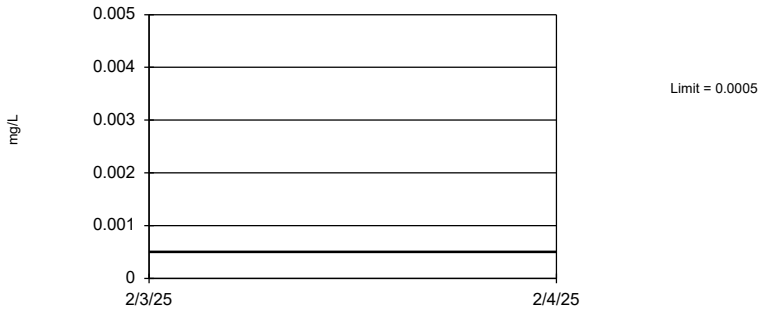


Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 76 background values. 93.95% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02028.

Constituent: Barium Analysis Run 5/21/2025 7:32 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. 89.26% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1285.

Constituent: Beryllium Analysis Run 5/21/2025 7:32 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 76 background values. 98.68% NDs. 93.95% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02028.

Constituent: Cadmium Analysis Run 5/21/2025 7:32 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

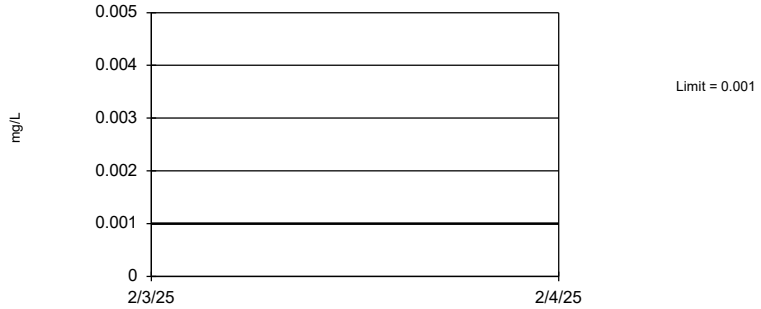
Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. 27.27% NDs. 90.04% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1047.

Constituent: Chromium Analysis Run 5/21/2025 7:32 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric

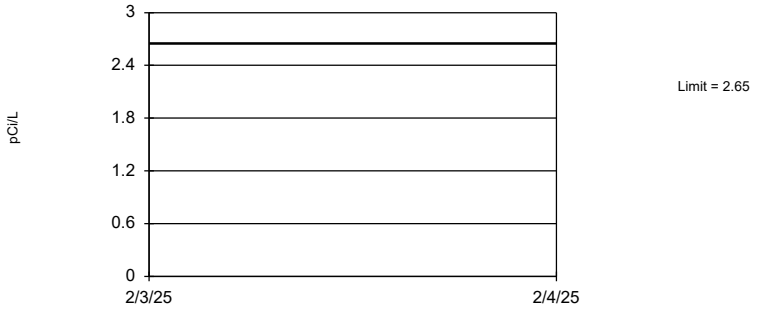


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 46 background values. 67.39% NDs. 90.43% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.09447.

Constituent: Cobalt Analysis Run 5/21/2025 7:32 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric

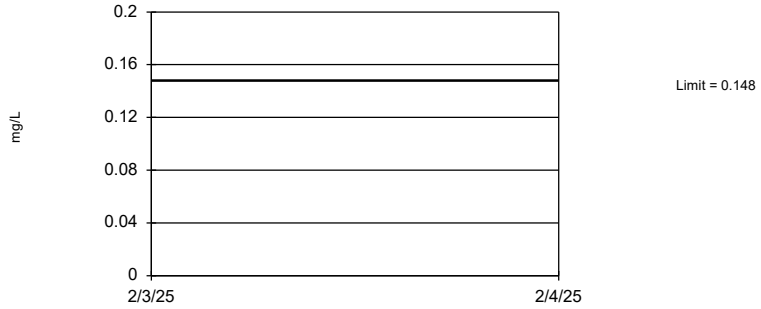


Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. 90.04% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1047.

Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 7:32 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 48 background values. 39.58% NDs. 90.82% coverage at alpha=0.01; 93.95% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.08526.

Constituent: Fluoride Analysis Run 5/21/2025 7:32 AM View: UTLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

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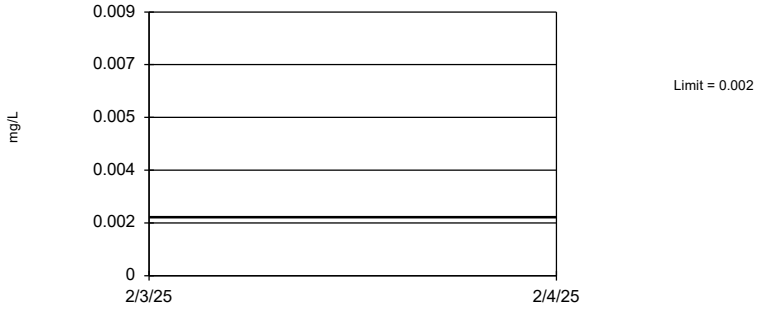
Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 76 background values. 88.16% NDs. 93.95% coverage at alpha=0.01; 96.29% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02028.

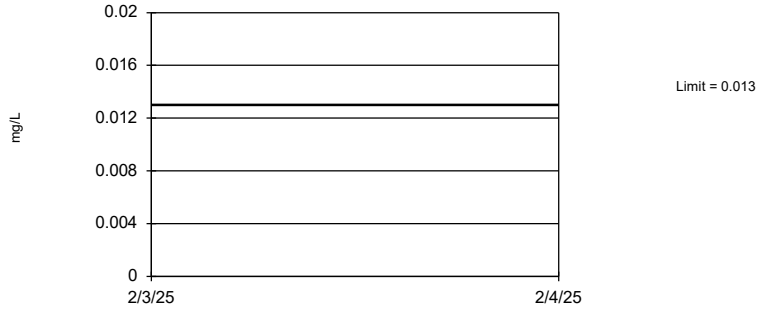
Constituent: Lead Analysis Run 5/21/2025 7:32 AM View: UTLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 46 background values. 43.48% NDs. 90.43% coverage at alpha=0.01; 93.55% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.09447.

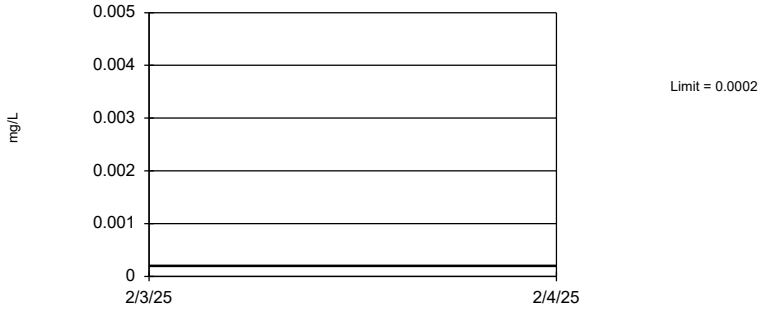
Constituent: Lithium Analysis Run 5/21/2025 7:32 AM View: UTLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 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 36 background values. 94.44% NDs. 88.09% coverage at alpha=0.01; 91.99% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1578.

Constituent: Mercury Analysis Run 5/21/2025 7:33 AM View: UTLs

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 42 background values. 80.95% NDs. 89.65% coverage at alpha=0.01; 93.16% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.116.

Constituent: Molybdenum Analysis Run 5/21/2025 7:33 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

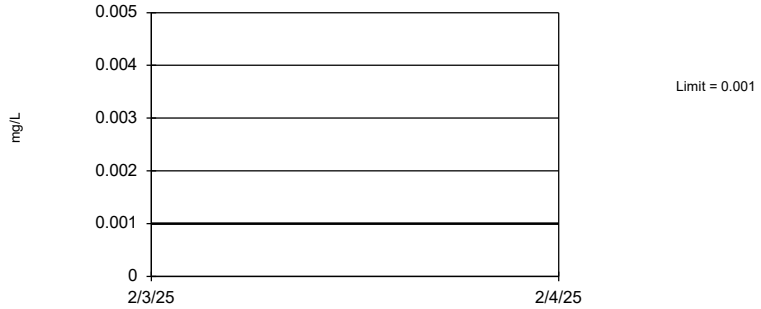
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 75 background values. 69.33% NDs. 93.95% coverage at alpha=0.01; 95.9% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02134.

Constituent: Selenium Analysis Run 5/21/2025 7:33 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



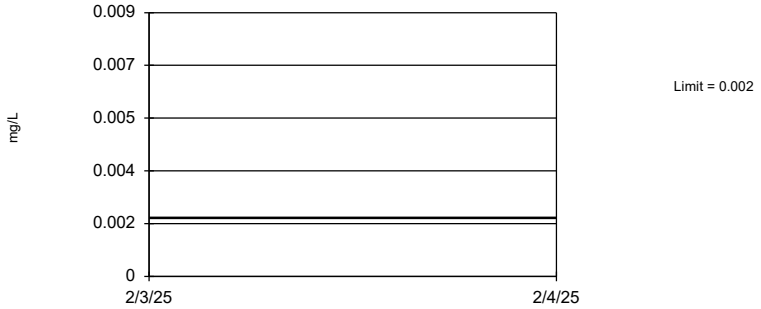
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 66 background values. 92.42% NDs. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03387.

Constituent: Silver Analysis Run 5/21/2025 7:33 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sanitas™ v.10.0.25 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 36 background values. 97.22% NDs. 88.09% coverage at alpha=0.01; 91.99% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1578.

Constituent: Thallium Analysis Run 5/21/2025 7:33 AM View: UTLs
Plant Arkwright Client: Southern Company Data: Arkwright No 2

FIGURE I.

PLANT ARKWRIGHT AP #2 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		0.005	0.01
Barium, Total (mg/L)	2		0.11	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.001	0.006
Combined Radium, Total (pCi/L)	5		2.65	5
Fluoride, Total (mg/L)	4		0.15	4
Lead, Total (mg/L)	n/a	0.015	0.002	0.015
Lithium, Total (mg/L)	n/a	0.04	0.013	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.001	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Silver, Total (mg/L)	n/a		0.001	0.001
Thallium, Total (mg/L)	0.002		0.002	0.002

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

**CCR = Coal Combustion Residuals*

FIGURE J.

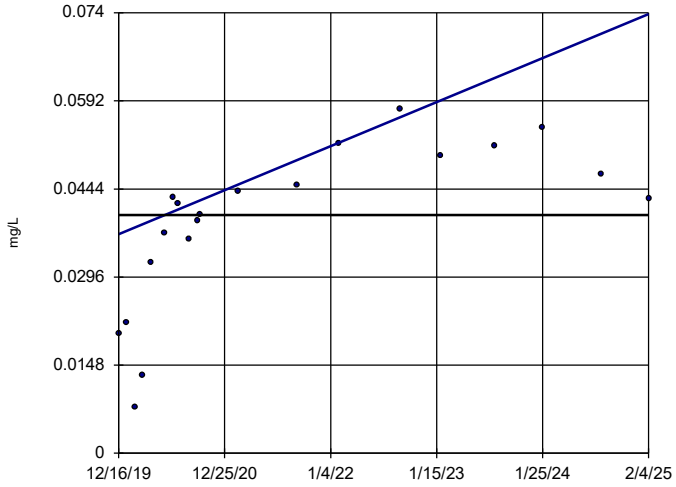
Lithium ARGWC-23 Trend Test - All/Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/22/2025, 6:59 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Lithium (mg/L)	**ARGWC-23**	**0.007192**	**128**	**62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Sen's Slope Estimator

ARGWC-23



n = 20

Slope = 0.007192 units per year.

Mann-Kendall statistic = 128 critical = 62

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

GWPS = 0.04.

Constituent: Lithium Analysis Run 5/22/2025 6:58 AM View: Date Range Trend Testing

Plant Arkwright Client: Southern Company Data: Arkwright No 2

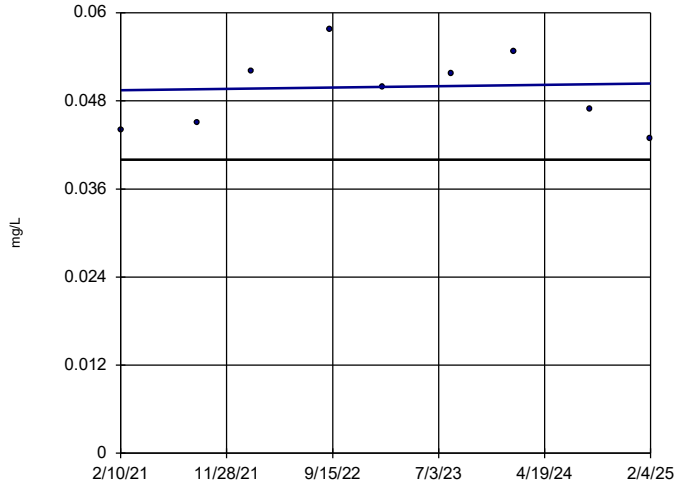
Lithium ARGWC-23 Trend Test - Truncated Record - All Results (No Significant)

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/22/2025, 6:57 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Lithium (mg/L)	ARGWC-23	0.0002229	0	20	No	9	0	n/a	n/a	0.05	NP

Sen's Slope Estimator

ARGWC-23



n = 9

Slope = 0.0002229 units per year.

Mann-Kendall statistic = 0
critical = 20

Trend not significant at 95% confidence level (α = 0.025 per tail).

GWPS = 0.04.

Constituent: Lithium Analysis Run 5/22/2025 6:55 AM View: Date Range Trend Testing

Plant Arkwright Client: Southern Company Data: Arkwright No 2

FIGURE K.

Confidence Interval Summary Table - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/22/2025, 7:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Cobalt (mg/L)	**ARAMW-7**	**0.07727**	**0.04751**	**0.006**	**Yes**	**10**	**0**	**x^2**	**0.01**	**Param.**
Lithium (mg/L)	**ARGWC-23**	**0.05436**	**0.04448**	**0.04**	**Yes**	**9**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**ARAMW-7**	**0.068**	**0.0585**	**0.04**	**Yes**	**10**	**0**	**No**	**0.011**	**NP (normality)**
Molybdenum (mg/L)	**ARAMW-8**	**0.1967**	**0.1263**	**0.1**	**Yes**	**10**	**0**	**x^3**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/22/2025, 7:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	ARAMW-8	0.003	0.00115	0.006	No	8	75	No	0.004	NP (NDs)
Antimony (mg/L)	ARAMW-9	0.003	0.00107	0.006	No	6	66.67	No	0.0155	NP (NDs)
Arsenic (mg/L)	ARGWC-21	0.005	0.0019	0.01	No	24	41.67	No	0.01	NP (normality)
Arsenic (mg/L)	ARGWC-23	0.005	0.00075	0.01	No	19	84.21	No	0.01	NP (NDs)
Arsenic (mg/L)	ARGWC-22	0.005	0.00221	0.01	No	19	78.95	No	0.01	NP (NDs)
Arsenic (mg/L)	ARAMW-1	0.005	0.005	0.01	No	11	90.91	No	0.006	NP (NDs)
Arsenic (mg/L)	ARAMW-2	0.02555	0.004985	0.01	No	11	0	ln(x)	0.01	Param.
Arsenic (mg/L)	ARAMW-7	0.005	0.00035	0.01	No	9	55.56	No	0.002	NP (NDs)
Arsenic (mg/L)	ARAMW-8	0.005	0.00031	0.01	No	9	66.67	No	0.002	NP (NDs)
Arsenic (mg/L)	ARAMW-9	0.005	0.00265	0.01	No	6	83.33	No	0.0155	NP (NDs)
Barium (mg/L)	ARGWC-21	0.11	0.045	2	No	24	0	No	0.01	NP (normality)
Barium (mg/L)	ARGWC-23	0.1422	0.09857	2	No	19	0	No	0.01	Param.
Barium (mg/L)	ARGWC-22	0.04467	0.02813	2	No	19	0	x^(1/3)	0.01	Param.
Barium (mg/L)	ARAMW-1	0.05074	0.04199	2	No	11	0	No	0.01	Param.
Barium (mg/L)	ARAMW-2	0.1033	0.06174	2	No	11	0	x^(1/3)	0.01	Param.
Barium (mg/L)	ARAMW-7	0.0432	0.0243	2	No	9	0	No	0.002	NP (normality)
Barium (mg/L)	ARAMW-8	0.1171	0.09623	2	No	9	0	No	0.01	Param.
Barium (mg/L)	ARAMW-9	0.02747	0.005937	2	No	6	0	No	0.01	Param.
Beryllium (mg/L)	ARGWC-23	0.0005	0.00033	0.004	No	18	94.44	No	0.01	NP (NDs)
Beryllium (mg/L)	ARGWC-22	0.0005	0.00036	0.004	No	18	72.22	No	0.01	NP (NDs)
Beryllium (mg/L)	ARAMW-7	0.0025	0.000236	0.004	No	9	33.33	No	0.002	NP (normality)
Chromium (mg/L)	ARGWC-21	0.01	0.0017	0.1	No	22	95.45	No	0.01	NP (NDs)
Chromium (mg/L)	ARGWC-22	0.01	0.0048	0.1	No	19	94.74	No	0.01	NP (NDs)
Cobalt (mg/L)	ARGWC-21	0.0018	0.0007	0.006	No	23	0	No	0.01	NP (normality)
Cobalt (mg/L)	ARGWC-23	0.001855	0.000732	0.006	No	20	5	x^(1/3)	0.01	Param.
Cobalt (mg/L)	ARGWC-22	0.007337	0.002646	0.006	No	20	0	sqrt(x)	0.01	Param.
Cobalt (mg/L)	ARAMW-1	0.001	0.00035	0.006	No	12	16.67	No	0.01	NP (normality)
Cobalt (mg/L)	ARAMW-2	0.002864	0.002027	0.006	No	12	0	No	0.01	Param.
Cobalt (mg/L)	**ARAMW-7**	**0.07727**	**0.04751**	**0.006**	**Yes**	**10**	**0**	**x^2**	**0.01**	**Param.**
Cobalt (mg/L)	ARAMW-8	0.004869	0.002583	0.006	No	10	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-21	1.248	0.5587	5	No	22	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-23	0.9473	0.2117	5	No	19	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARGWC-22	1.258	0.4432	5	No	19	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-1	3.839	0.5637	5	No	11	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-2	4.95	2.306	5	No	11	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-7	5.061	3.675	5	No	9	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-8	2.151	0.188	5	No	9	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	ARAMW-9	6.411	0.3525	5	No	7	0	No	0.01	Param.
Fluoride (mg/L)	ARGWC-21	0.1545	0.09189	4	No	24	0	ln(x)	0.01	Param.
Fluoride (mg/L)	ARGWC-23	0.3637	0.23	4	No	20	0	No	0.01	Param.
Fluoride (mg/L)	ARGWC-22	0.105	0.04915	4	No	20	15	ln(x)	0.01	Param.
Fluoride (mg/L)	ARAMW-1	0.214	0.1631	4	No	12	0	No	0.01	Param.
Fluoride (mg/L)	ARAMW-2	0.1404	0.08624	4	No	12	8.333	No	0.01	Param.
Fluoride (mg/L)	ARAMW-7	0.09426	0.03765	4	No	10	40	ln(x)	0.01	Param.
Fluoride (mg/L)	ARAMW-8	0.2471	0.1771	4	No	10	0	No	0.01	Param.
Fluoride (mg/L)	ARAMW-9	0.9858	0.8242	4	No	6	0	No	0.01	Param.
Lead (mg/L)	ARGWC-21	0.002	0.00026	0.015	No	24	91.67	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-23	0.002	0.00026	0.015	No	19	89.47	No	0.01	NP (NDs)
Lead (mg/L)	ARGWC-22	0.002	0.00022	0.015	No	19	89.47	No	0.01	NP (NDs)
Lead (mg/L)	ARAMW-7	0.002	0.00013	0.015	No	9	88.89	No	0.002	NP (NDs)
Lithium (mg/L)	ARGWC-21	0.01221	0.01007	0.04	No	23	0	No	0.01	Param.
Lithium (mg/L)	**ARGWC-23**	**0.05436**	**0.04448**	**0.04**	**Yes**	**9**	**0**	**No**	**0.01**	**Param.**
Lithium (mg/L)	ARGWC-22	0.02358	0.0156	0.04	No	20	0	No	0.01	Param.
Lithium (mg/L)	ARAMW-1	0.00988	0.008265	0.04	No	14	0	x^3	0.01	Param.
Lithium (mg/L)	ARAMW-2	0.036	0.0172	0.04	No	14	0	No	0.01	NP (normality)
Lithium (mg/L)	**ARAMW-7**	**0.068**	**0.0585**	**0.04**	**Yes**	**10**	**0**	**No**	**0.011**	**NP (normality)**
Lithium (mg/L)	ARAMW-8	0.006671	0.005598	0.04	No	10	0	x^3	0.01	Param.
Lithium (mg/L)	ARAMW-9	0.01074	0.005171	0.04	No	6	0	No	0.01	Param.
Mercury (mg/L)	ARGWC-21	0.0002	0.000073	0.002	No	18	94.44	No	0.01	NP (NDs)
Mercury (mg/L)	ARGWC-22	0.000372	0.00008	0.002	No	16	87.5	No	0.01	NP (NDs)
Mercury (mg/L)	ARAMW-7	0.0002	0.000113	0.002	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	ARGWC-23	0.06393	0.04721	0.1	No	19	0	x^2	0.01	Param.
Molybdenum (mg/L)	ARGWC-22	0.015	0.000406	0.1	No	19	47.37	No	0.01	NP (normality)
Molybdenum (mg/L)	ARAMW-1	0.009297	0.005413	0.1	No	12	0	No	0.01	Param.
Molybdenum (mg/L)	ARAMW-2	0.015	0.000585	0.1	No	12	41.67	No	0.01	NP (normality)
Molybdenum (mg/L)	ARAMW-7	0.001	0.000321	0.1	No	10	60	No	0.011	NP (NDs)
Molybdenum (mg/L)	**ARAMW-8**	**0.1967**	**0.1263**	**0.1**	**Yes**	**10**	**0**	**x^3**	**0.01**	**Param.**
Molybdenum (mg/L)	ARAMW-9	0.01922	0	0.1	No	6	0	No	0.01	Param.

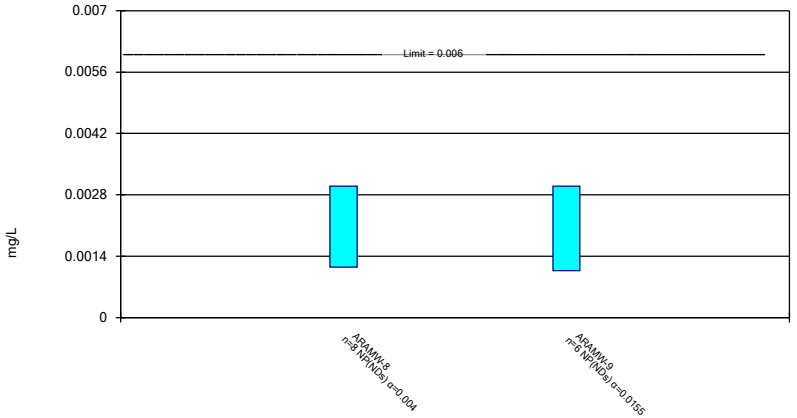
Confidence Interval Summary Table - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/22/2025, 7:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Selenium (mg/L)	ARGWC-22	0.005	0.002	0.05	No	19	94.74	No	0.01	NP (NDs)
Silver (mg/L)	ARGWC-21	0.001	0.00043	0.001	No	19	94.74	No	0.01	NP (NDs)
Thallium (mg/L)	ARGWC-23	0.002	0.00028	0.002	No	16	81.25	No	0.01	NP (NDs)
Thallium (mg/L)	ARGWC-22	0.002	0.00035	0.002	No	16	75	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

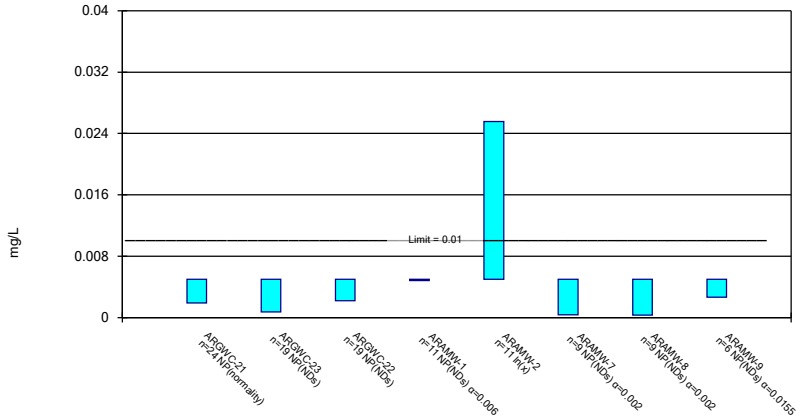
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 5/22/2025 7:02 AM View: Appendix I & IV - Confidence Intervals (100
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Parametric and Non-Parametric (NP) Confidence Interval

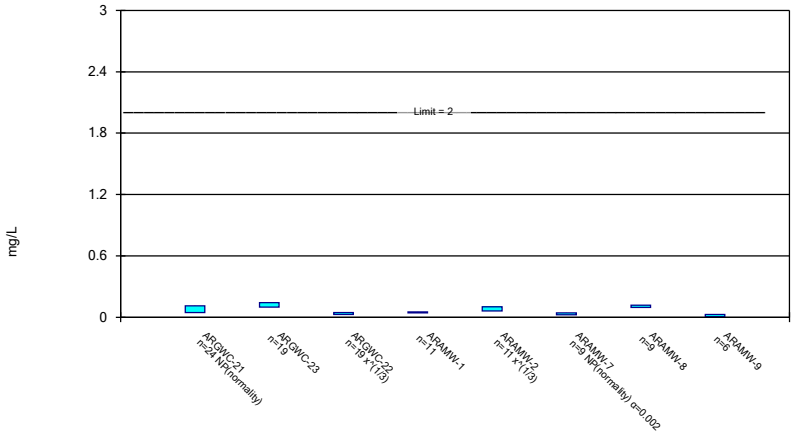
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 5/22/2025 7:02 AM View: Appendix I & IV - Confidence Intervals (100%
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Parametric and Non-Parametric (NP) Confidence Interval

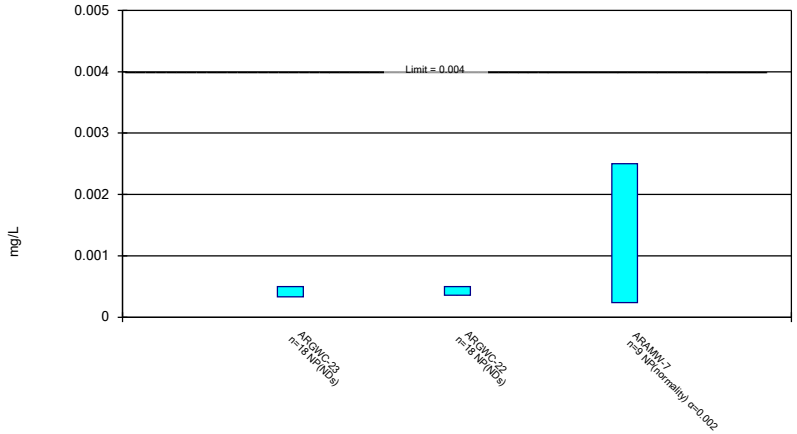
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/22/2025 7:02 AM View: Appendix I & IV - Confidence Intervals (100%
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Non-Parametric Confidence Interval

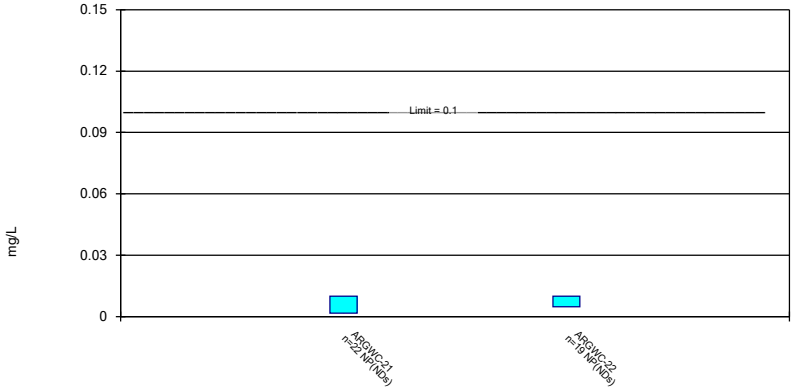
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Beryllium Analysis Run 5/22/2025 7:02 AM View: Appendix I & IV - Confidence Intervals (100
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Non-Parametric Confidence Interval

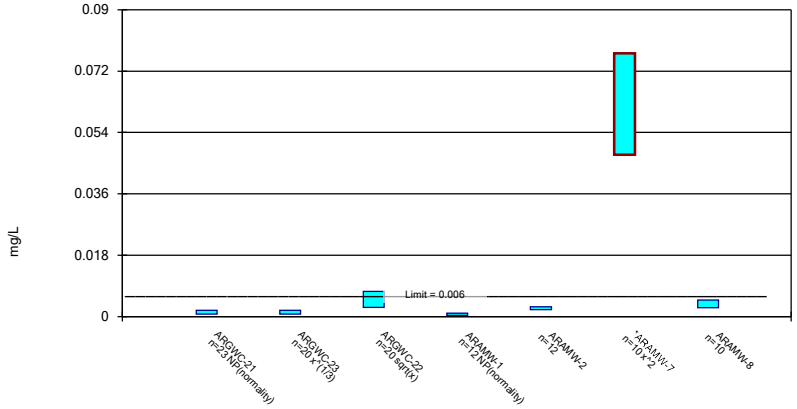
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 5/22/2025 7:02 AM View: Appendix I & IV - Confidence Intervals (10
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Parametric and Non-Parametric (NP) Confidence Interval

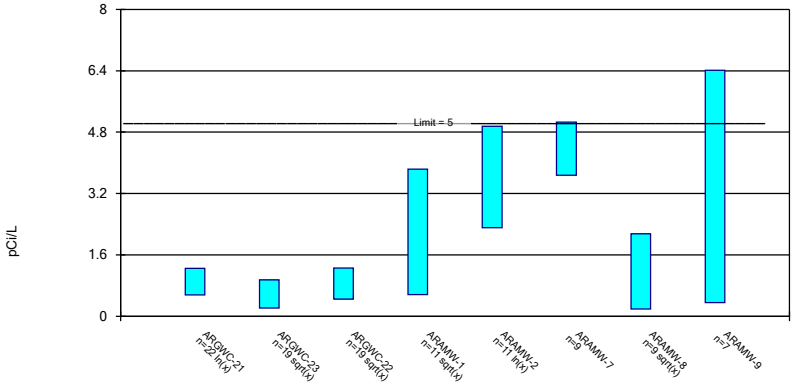
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/22/2025 7:02 AM View: Appendix I & IV - Confidence Intervals (100%
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Parametric Confidence Interval

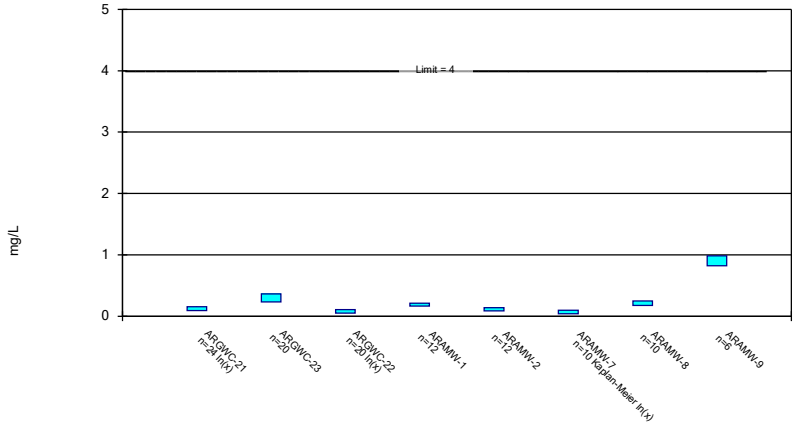
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/22/2025 7:02 AM View: Appendix I & IV - Confi
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Parametric Confidence Interval

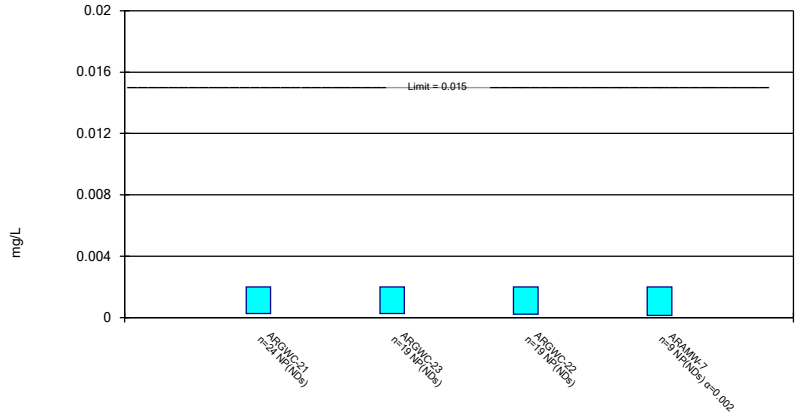
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/22/2025 7:02 AM View: Appendix I & IV - Confidence Intervals (100
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Non-Parametric Confidence Interval

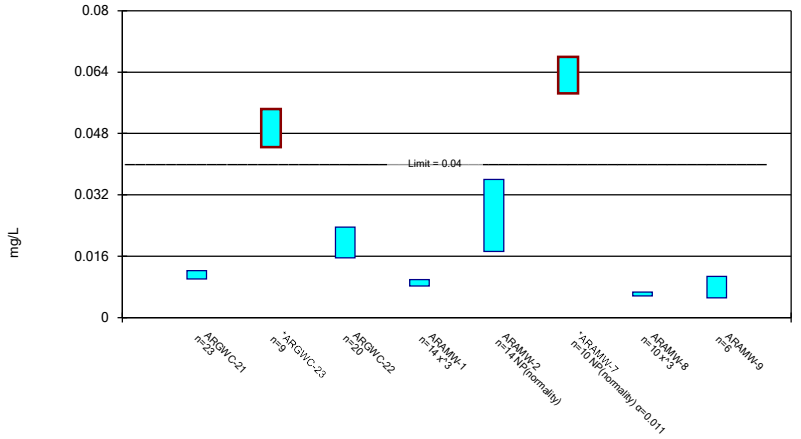
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 5/22/2025 7:02 AM View: Appendix I & IV - Confidence Intervals (100% N
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Parametric and Non-Parametric (NP) Confidence Interval

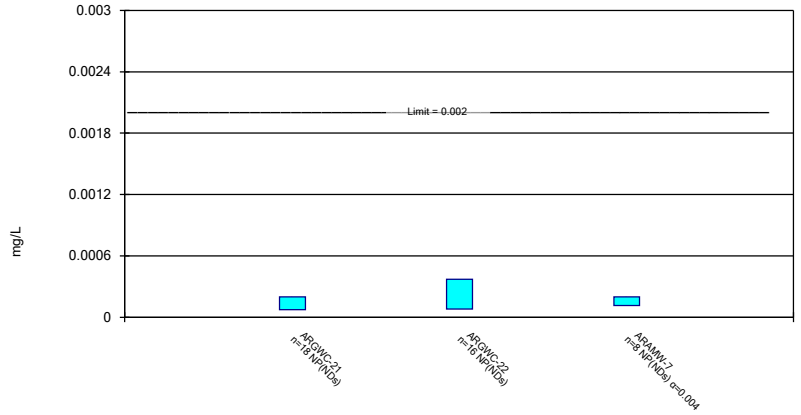
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/22/2025 7:02 AM View: Appendix I & IV - Confidence Intervals (100%
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Non-Parametric Confidence Interval

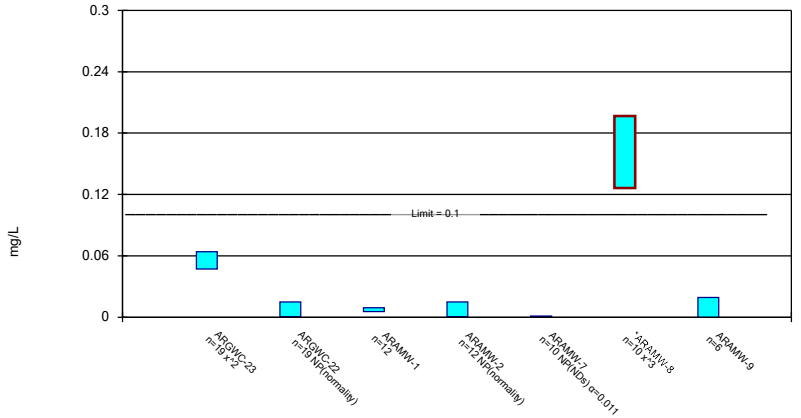
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



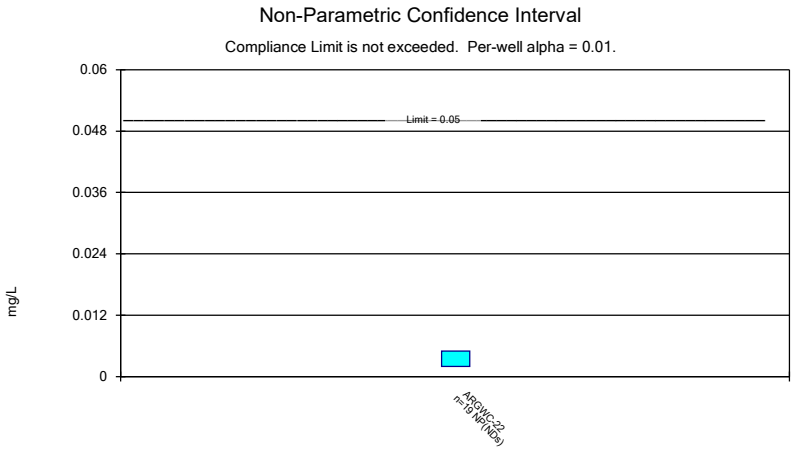
Constituent: Mercury Analysis Run 5/22/2025 7:03 AM View: Appendix I & IV - Confidence Intervals (100
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Parametric and Non-Parametric (NP) Confidence Interval

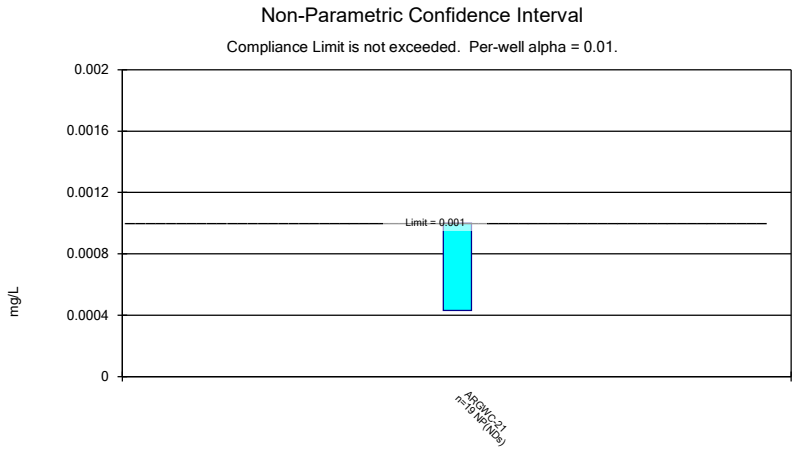
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



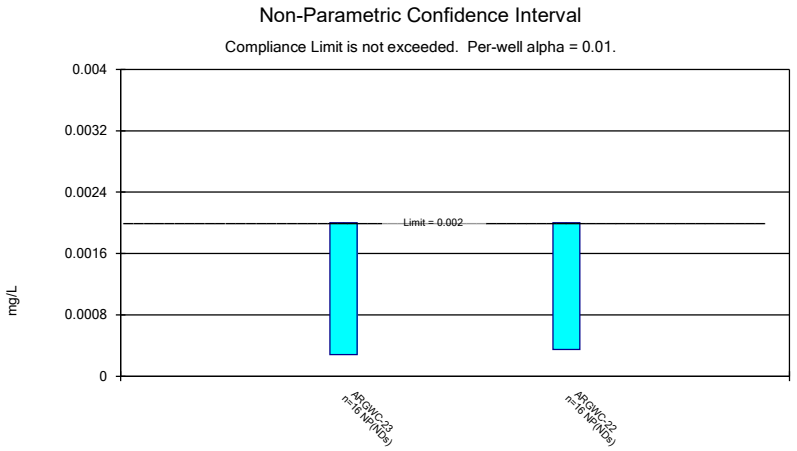
Constituent: Molybdenum Analysis Run 5/22/2025 7:03 AM View: Appendix I & IV - Confidence Intervals (
Plant Arkwright Client: Southern Company Data: Arkwright No 2



Constituent: Selenium Analysis Run 5/22/2025 7:03 AM View: Appendix I & IV - Confidence Intervals (100
Plant Arkwright Client: Southern Company Data: Arkwright No 2



Constituent: Silver Analysis Run 5/22/2025 7:03 AM View: Appendix I & IV - Confidence Intervals (100% N
Plant Arkwright Client: Southern Company Data: Arkwright No 2



Constituent: Thallium Analysis Run 5/22/2025 7:03 AM View: Appendix I & IV - Confidence Intervals (100
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/22/2025 7:06 AM View: Appendix I & IV - Confidence Intervals (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARAMW-8	ARAMW-9
9/9/2021	<0.003	
2/3/2022	<0.003	
9/2/2022	<0.003	
10/20/2022		<0.003
1/31/2023	<0.003	
2/1/2023		<0.003
8/8/2023		0.00158 (J)
8/9/2023	0.00134 (J)	
1/23/2024		0.00107 (J)
1/24/2024	<0.003	
8/20/2024	<0.003	<0.003
2/4/2025	0.00115 (J)	<0.003
Mean	0.002561	0.002442
Std. Dev.	0.000814	0.0008799
Upper Lim.	0.003	0.003
Lower Lim.	0.00115	0.00107

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/22/2025 7:06 AM View: Appendix I & IV - Confidence Intervals (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-21	ARGWC-23	ARGWC-22	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
6/23/2016	0.0011 (J)							
8/30/2016	0.002							
10/26/2016	0.0019 (J)							
1/25/2017	0.0017							
4/10/2017	0.002							
6/19/2017	0.0026							
10/24/2017	0.0021							
4/10/2018	0.0022							
10/16/2018	0.0021							
3/27/2019	0.0011 (J)							
8/20/2019	0.002							
10/8/2019	0.0012 (J)							
12/16/2019		0.00075 (J)	0.00066 (J)					
1/14/2020		0.00042 (J)	0.00038 (J)					
2/11/2020		<0.005	0.0004 (J)					
3/9/2020		<0.005	<0.005					
4/7/2020	0.00054 (J)	<0.005	<0.005					
5/27/2020		<0.005	<0.005					
7/15/2020		<0.005	<0.005					
8/19/2020			<0.005					
8/20/2020		<0.005		<0.005	0.084			
8/21/2020	<0.005							
9/22/2020		<0.005	<0.005					
9/30/2020			<0.005	<0.005				
10/1/2020	<0.005	<0.005			0.0085			
2/10/2021	<0.005	<0.005	<0.005	<0.005				
2/11/2021					0.015	0.00075 (J)	0.00046 (J)	
9/8/2021	<0.005							
9/9/2021		<0.005		<0.005			<0.005	
9/10/2021			<0.005		0.044	<0.005		
2/1/2022	<0.005							
2/2/2022			<0.005			0.00035 (J)		
2/3/2022		0.0003 (J)		<0.005	0.0092		0.00031 (J)	
9/1/2022	0.00207 (J)							
9/2/2022				0.00233 (J)	0.0158		0.00206 (J)	
9/6/2022		<0.005	<0.005					
9/7/2022						<0.005		
10/20/2022								0.00265 (J)
1/31/2023	<0.005	<0.005	0.00221 (J)	<0.005	0.00363 (J)	0.00286 (J)	<0.005	
2/1/2023								<0.005
8/8/2023		<0.005	<0.005	<0.005	0.012	<0.005		<0.005
8/9/2023	<0.005						<0.005	
1/23/2024			<0.005			0.00219 (J)		<0.005
1/24/2024	<0.005	<0.005		<0.005	0.0047 (J)		<0.005	
8/20/2024	<0.005	<0.005	<0.005	<0.005	0.00392 (J)	<0.005	<0.005	<0.005
2/4/2025	<0.005	<0.005	<0.005	<0.005	0.00689	<0.005	<0.005	<0.005
Mean	0.003109	0.004288	0.004139	0.004757	0.01888	0.003461	0.003648	0.004608
Std. Dev.	0.001686	0.001691	0.001749	0.000805	0.02438	0.001964	0.002086	0.0009594
Upper Lim.	0.005	0.005	0.005	0.005	0.02555	0.005	0.005	0.005
Lower Lim.	0.0019	0.00075	0.00221	0.005	0.004985	0.00035	0.00031	0.00265

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/22/2025 7:06 AM View: Appendix I & IV - Confidence Intervals (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-21	ARGWC-23	ARGWC-22	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
6/23/2016	0.13							
8/30/2016	0.11							
10/26/2016	0.122							
1/25/2017	0.12							
4/10/2017	0.11							
6/19/2017	0.13							
10/24/2017	0.12							
4/10/2018	0.12							
10/16/2018	0.1							
3/27/2019	0.091							
8/20/2019	0.1							
10/8/2019	0.096							
12/16/2019		0.096	0.076					
1/14/2020		0.075	0.071					
2/11/2020		0.046	0.046					
3/9/2020		0.14	0.039					
4/7/2020	0.05	0.16	0.04					
5/27/2020		0.18	0.054					
7/15/2020		0.16	0.043					
8/19/2020			0.046					
8/20/2020		0.16		0.055	0.14			
8/21/2020	0.054							
9/22/2020		0.16	0.038					
9/30/2020			0.033	0.052				
10/1/2020	0.051	0.17			0.075			
2/10/2021	0.044	0.13	0.032	0.046				
2/11/2021					0.09	0.037	0.092	
9/8/2021	0.045							
9/9/2021		0.12		0.051			0.094	
9/10/2021			0.026		0.13	0.029		
2/1/2022	0.045							
2/2/2022			0.025			0.029		
2/3/2022		0.1		0.046	0.078		0.096	
9/1/2022	0.0425							
9/2/2022				0.0445	0.0792		0.116	
9/6/2022		0.0939	0.0226					
9/7/2022						0.0263		
10/20/2022								0.0305
1/31/2023	0.0414	0.0872	0.0237	0.0427	0.067	0.0243	0.11	
2/1/2023								0.0158
8/8/2023		0.0936	0.0255	0.051	0.0753	0.0244		0.0207
8/9/2023	0.0474						0.122	
1/23/2024			0.0227			0.0277		0.0128
1/24/2024	0.0427	0.0922		0.043	0.0562		0.103	
8/20/2024	0.0431	0.105	0.0223	0.0389	0.056	0.0277	0.112	0.0105
2/4/2025	0.0492	0.118	0.0282	0.0399	0.0681	0.0432	0.115	0.00991
Mean	0.07935	0.1204	0.03758	0.04636	0.08316	0.02984	0.1067	0.0167
Std. Dev.	0.03511	0.03722	0.0158	0.005247	0.02756	0.006256	0.01081	0.007836
Upper Lim.	0.11	0.1422	0.04467	0.05074	0.1033	0.0432	0.1171	0.02747
Lower Lim.	0.045	0.09857	0.02813	0.04199	0.06174	0.0243	0.09623	0.005937

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/22/2025 7:06 AM View: Appendix I & IV - Confidence Intervals (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-23	ARGWC-22	ARAMW-7
12/16/2019	0.00033 (J)	0.0005 (J)	
1/14/2020	<0.0005	0.00036 (J)	
2/11/2020	<0.0005	0.00023 (J)	
3/9/2020	<0.0005	0.00019 (J)	
5/27/2020	<0.0005	0.00018 (J)	
7/15/2020	<0.0005	<0.0005	
8/19/2020		<0.0005	
8/20/2020	<0.0005		
9/22/2020	<0.0005	<0.0005	
9/30/2020		<0.0005	
10/1/2020	<0.0005		
2/10/2021	<0.0005	<0.0005	
2/11/2021			<0.0025
9/9/2021	<0.0005		
9/10/2021		<0.0005	<0.0025
2/2/2022		<0.0005	<0.0025
2/3/2022	<0.0005		
9/6/2022	<0.0005	<0.0005	
9/7/2022			0.000236 (J)
1/31/2023	<0.0005	<0.0005	0.000296 (J)
8/8/2023	<0.0005	<0.0005	0.000272 (J)
1/23/2024		<0.0005	0.000378 (J)
1/24/2024	<0.0005		
8/20/2024	<0.0005	<0.0005	0.000318 (J)
2/4/2025	<0.0005	<0.0005	0.000325 (J)
Mean	0.0004906	0.0004422	0.001036
Std. Dev.	4.007E-05	0.0001165	0.001099
Upper Lim.	0.0005	0.0005	0.0025
Lower Lim.	0.00033	0.00036	0.000236

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/22/2025 7:06 AM View: Appendix I & IV - Confidence Intervals (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-21	ARGWC-22
8/30/2016	<0.01	
10/26/2016	<0.01	
1/25/2017	<0.01	
4/10/2017	<0.01	
6/19/2017	<0.01	
10/24/2017	<0.01	
4/10/2018	<0.01	
10/16/2018	<0.01	
8/20/2019	0.0017 (J)	
10/8/2019	<0.01	
12/16/2019		<0.01
1/14/2020		<0.01
2/11/2020		0.0048
3/9/2020		<0.01
4/7/2020	<0.01	<0.01
5/27/2020		<0.01
7/15/2020		<0.01
8/19/2020		<0.01
8/21/2020	<0.01	
9/22/2020		<0.01
9/30/2020		<0.01
10/1/2020	<0.01	
2/10/2021	<0.01	<0.01
9/8/2021	<0.01	
9/10/2021		<0.01
2/1/2022	<0.01	
2/2/2022		<0.01
9/1/2022	<0.01	
9/6/2022		<0.01
1/31/2023	<0.01	<0.01
8/8/2023		<0.01
8/9/2023	<0.01	
1/23/2024		<0.01
1/24/2024	<0.01	
8/20/2024	<0.01	<0.01
2/4/2025	<0.01	<0.01
Mean	0.009623	0.009726
Std. Dev.	0.00177	0.001193
Upper Lim.	0.01	0.01
Lower Lim.	0.0017	0.0048

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/22/2025 7:06 AM View: Appendix I & IV - Confidence Intervals (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-21	ARGWC-23	ARGWC-22	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8
8/30/2016	0.0018 (J)						
10/26/2016	0.0018 (J)						
1/25/2017	0.0017 (J)						
4/10/2017	0.0016 (J)						
6/19/2017	0.0021 (J)						
10/24/2017	0.0019 (J)						
4/10/2018	0.0019 (J)						
10/16/2018	0.0019 (J)						
8/20/2019	0.0023						
10/8/2019	0.0018						
12/16/2019		0.0023	0.018				
1/14/2020		0.0031	0.0072				
2/11/2020		0.00056	0.013				
3/9/2020		0.00061 (J)	0.015				
4/7/2020	0.00087	0.0016	0.009				
5/27/2020		0.0017 (J)	0.0059				
6/24/2020			0.0047	0.00097 (J)	0.0027		
6/25/2020	0.00097 (J)	0.0014 (J)					
7/15/2020		0.0017 (J)	0.0027				
8/19/2020			0.0032				
8/20/2020		0.0023 (J)		0.001 (J)	0.0022 (J)		
8/21/2020	0.00066 (J)						
9/22/2020		0.0036	0.0085				
9/30/2020			0.0055	0.001 (J)			
10/1/2020	0.00082 (J)	0.0052			0.0036		
11/30/2020						0.028	
12/1/2020							0.0054
2/10/2021	0.00063 (J)	0.00072 (J)	0.0015 (J)	0.00082 (J)			
2/11/2021					0.0028	0.017	0.0061
9/8/2021	0.0007 (J)						
9/9/2021		0.0009 (J)		0.00072 (J)			0.0046
9/10/2021			0.0015 (J)		0.0022 (J)	0.075	
2/1/2022	0.0007 (J)						
2/2/2022			0.001 (J)			0.077	
2/3/2022		0.00063 (J)		0.00045 (J)	0.0028		0.0028
9/1/2022	0.00069 (J)						
9/2/2022				0.000449 (J)	0.002		0.00292
9/6/2022		0.000588 (J)	0.00198				
9/7/2022						0.0737	
1/31/2023	0.000659 (J)	0.000742 (J)	0.00154	0.000399 (J)	0.00282	0.0687	0.00321
8/8/2023		0.00044 (J)	0.00184	0.00035 (J)	0.00223	0.0605	
8/9/2023	0.000813 (J)						0.00364
1/23/2024			0.00408			0.0597	
1/24/2024	0.00106	<0.001		0.000331 (J)	0.00249		0.00203
8/20/2024	0.000769 (J)	0.000484 (J)	0.00279	<0.001	0.00166	0.0702	0.00277
2/4/2025	0.000632 (J)	0.000489 (J)	0.0023	<0.001	0.00185	0.0788	0.00379
Mean	0.001251	0.001478	0.005562	0.0007074	0.002446	0.06086	0.003726
Std. Dev.	0.0005867	0.001278	0.004889	0.0002895	0.0005333	0.02135	0.001281
Upper Lim.	0.0018	0.001855	0.007337	0.001	0.002864	0.07727	0.004869
Lower Lim.	0.0007	0.000732	0.002646	0.00035	0.002027	0.04751	0.002583

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/22/2025 7:06 AM View: Appendix I & IV - Confidence Intervals (100% NDs)
Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-21	ARGWC-23	ARGWC-22	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/30/2016	0.832							
10/26/2016	1.27							
1/25/2017	0.549							
4/10/2017	0.556							
6/19/2017	0.976							
10/24/2017	0.504							
4/10/2018	0.621							
10/16/2018	0.796							
8/20/2019	0.978							
10/8/2019	0.588							
12/16/2019		0.166 (U)	0.229 (U)					
1/14/2020		0.869	0.783					
2/11/2020		0.0291 (U)	0.229 (U)					
3/9/2020		0.626	0.365					
4/7/2020	0.433 (U)	0.296 (U)	0.567					
5/27/2020		0.192 (U)	0.143 (U)					
7/15/2020		0.279 (U)	0.97					
8/19/2020			0.587 (U)					
8/20/2020		0.242 (U)		0.527	4.13			
8/21/2020	0.472							
9/22/2020		0.0177 (U)	0.884					
9/30/2020			0.602	0.249 (U)				
10/1/2020	0.496 (U)	0.749			2.86			
2/10/2021	0.625	0.0408 (U)	0.233 (U)	0.949				
2/11/2021					2.09	5.1	0.285 (U)	
9/8/2021	1.12							
9/9/2021		0.498		0.972			0.16 (U)	
9/10/2021			0.713		3.4	4.23		
2/1/2022	0.331 (U)							
2/2/2022			0.195 (U)			4.48		
2/3/2022		0.248 (U)		1.04	2.69		0.51	
9/1/2022	1.57 (U)							
9/2/2022				3.41	4.18		1.89 (U)	
9/6/2022		2.36 (U)	2.58					
9/7/2022						4.29		
10/20/2022								8.42
12/8/2022								1.41 (U)
1/31/2023	3.25	0.859 (U)	2.2	4.1	4.3	5.21	3.2	
2/1/2023								0.413 (U)
8/8/2023		0.363 (U)	1.22 (U)	1.16 (U)	1.86	4.83		3.92
8/9/2023	2.69						0.193 (U)	
1/23/2024			2.1			4.65		2.96
1/24/2024	5.34	2.73		9.3	10.3		2.87	
8/20/2024	1.02 (U)	2.1	1.04 (U)	2.47	2.98	3.47	0.801 (U)	2.8
2/4/2025	0.238 (U)	0.551 (U)	2.26	1.28 (U)	2.83	3.05	0.506 (U)	3.75
Mean	1.148	0.6956	0.9421	2.314	3.784	4.368	1.157	3.382
Std. Dev.	1.19	0.807	0.7797	2.615	2.309	0.7175	1.188	2.55
Upper Lim.	1.248	0.9473	1.258	3.839	4.95	5.061	2.151	6.411
Lower Lim.	0.5587	0.2117	0.4432	0.5637	2.306	3.675	0.188	0.3525

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/22/2025 7:06 AM View: Appendix I & IV - Confidence Intervals (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-21	ARGWC-23	ARGWC-22	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/30/2016	0.099 (J)							
10/26/2016	0.57							
1/25/2017	0.12 (J)							
4/10/2017	0.11 (J)							
6/19/2017	0.11 (J)							
10/24/2017	0.1 (J)							
4/10/2018	0.094 (J)							
10/16/2018	0.17 (J)							
3/27/2019	0.05 (J)							
8/20/2019	0.098 (J)							
10/8/2019	0.065 (J)							
12/16/2019		0.18 (J)	0.026 (J)					
1/14/2020		0.21	<0.2					
2/11/2020		0.13	0.056 (J)					
3/9/2020		0.089 (J)	0.064 (J)					
4/7/2020	0.12	0.18	0.068 (J)					
5/27/2020		0.25	0.06 (J)					
6/24/2020			0.048 (J)	0.21	0.11			
6/25/2020	0.041 (J)	0.25						
7/15/2020		0.28	0.04 (J)					
8/19/2020			<0.2					
8/20/2020		0.19		0.23	<0.1			
8/21/2020	0.084 (J)							
9/22/2020		0.33	0.049 (J)					
9/30/2020			0.045 (J)	0.2				
10/1/2020	0.098 (J)	0.32			0.098 (J)			
11/30/2020						0.044 (J)		
12/1/2020							0.14	
2/10/2021	0.14	0.41	0.055 (J)	0.21				
2/11/2021					0.12	0.054 (J)	0.24	
9/8/2021	0.16							
9/9/2021		0.48		0.21			0.19	
9/10/2021			0.035 (J)		0.13	0.032 (J)		
2/1/2022	0.11							
2/2/2022			0.04 (J)			<0.5		
2/3/2022		0.4		0.16	0.095 (J)		0.17	
9/1/2022	0.161							
9/2/2022				0.18	0.146		0.206	
9/6/2022		0.362	0.056 (J)					
9/7/2022						<0.5		
10/20/2022								0.839
1/31/2023	0.175	0.551	0.0979 (J)	0.22	0.13	0.11	0.263	
2/1/2023								0.938
8/8/2023		0.283	<0.2	0.118	0.0571 (J)	<0.5		0.837
8/9/2023	0.203						0.261	
1/23/2024			0.134			0.126		0.971
1/24/2024	0.173	0.391		0.199	0.171		0.222	
8/20/2024	0.124	0.365	0.066 (J)	0.169	0.123	0.118 (J)	0.199	0.889
2/4/2025	0.131	0.286	0.28 (J)	0.157	0.13	<0.5	0.23	0.956
Mean	0.1378	0.2969	0.091	0.1886	0.1133	0.2484	0.2121	0.905
Std. Dev.	0.1005	0.1177	0.07187	0.03243	0.03454	0.2188	0.03922	0.05879
Upper Lim.	0.1545	0.3637	0.105	0.214	0.1404	0.09426	0.2471	0.9858

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/22/2025 7:06 AM View: Appendix I & IV - Confidence Intervals (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-21	ARGWC-23	ARGWC-22	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
Lower Lim.	0.09189	0.23	0.04915	0.1631	0.08624	0.03765	0.1771	0.8242

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/22/2025 7:06 AM View: Appendix I & IV - Confidence Intervals (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-21	ARGWC-23	ARGWC-22	ARAMW-7
6/23/2016	<0.002			
8/30/2016	<0.002			
10/26/2016	<0.002			
1/25/2017	<0.002			
4/10/2017	<0.002			
6/19/2017	<0.002			
10/24/2017	<0.002			
4/10/2018	<0.002			
10/16/2018	<0.002			
3/27/2019	<0.002			
8/20/2019	<0.002			
10/8/2019	0.00015 (J)			
12/16/2019		<0.002	<0.002	
1/14/2020		0.00018 (J)	0.00022 (J)	
2/11/2020		0.00026 (J)	<0.002	
3/9/2020		<0.002	<0.002	
4/7/2020	0.00026 (J)	<0.002	0.00014 (J)	
5/27/2020		<0.002	<0.002	
7/15/2020		<0.002	<0.002	
8/19/2020			<0.002	
8/20/2020		<0.002		
8/21/2020	<0.002			
9/22/2020		<0.002	<0.002	
9/30/2020			<0.002	
10/1/2020	<0.002	<0.002		
2/10/2021	<0.002	<0.002	<0.002	
2/11/2021				0.00013 (J)
9/8/2021	<0.002			
9/9/2021		<0.002		
9/10/2021			<0.002	<0.002
2/1/2022	<0.002			
2/2/2022			<0.002	<0.002
2/3/2022		<0.002		
9/1/2022	<0.002			
9/6/2022		<0.002	<0.002	
9/7/2022				<0.002
1/31/2023	<0.002	<0.002	<0.002	<0.002
8/8/2023		<0.002	<0.002	<0.002
8/9/2023	<0.002			
1/23/2024			<0.002	<0.002
1/24/2024	<0.002	<0.002		
8/20/2024	<0.002	<0.002	<0.002	<0.002
2/4/2025	<0.002	<0.002	<0.002	<0.002
Mean	0.00185	0.001813	0.001808	0.001792
Std. Dev.	0.000507	0.0005614	0.000574	0.0006233
Upper Lim.	0.002	0.002	0.002	0.002
Lower Lim.	0.00026	0.00026	0.00022	0.00013

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/22/2025 7:06 AM View: Appendix I & IV - Confidence Intervals (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-21	ARGWC-23	ARGWC-22	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
8/30/2016	0.0092							
10/26/2016	0.0071 (J)							
1/25/2017	0.0087							
4/10/2017	0.0074							
6/19/2017	0.0079							
10/24/2017	0.0097							
4/10/2018	0.012							
10/16/2018	0.01							
8/20/2019	0.0098							
10/8/2019	0.015							
12/16/2019		0.02	0.027					
1/14/2020		0.022	0.034	0.009	0.086			
2/11/2020		0.0078	0.01					
2/24/2020					0.19			
2/26/2020				0.0046 (J)				
3/9/2020		0.013	0.0071					
4/7/2020	0.011	0.032	0.012					
5/27/2020		0.037	0.017					
6/24/2020			0.023	0.0084	0.018			
6/25/2020	0.013	0.043						
7/15/2020		0.042	0.021					
8/19/2020			0.026					
8/20/2020		0.036		0.0066	0.036			
8/21/2020	0.013							
9/22/2020		0.039	0.014					
9/30/2020			0.014	0.0091				
10/1/2020	0.012	0.04			0.019			
11/30/2020						0.061		
12/1/2020							0.0044 (J)	
2/10/2021	0.012	0.044	0.022	0.0097				
2/11/2021					0.021	0.061	0.0055	
9/8/2021	0.012							
9/9/2021		0.045		0.0095			0.0062	
9/10/2021			0.021		0.025	0.06		
2/1/2022	0.012							
2/2/2022			0.02			0.06		
2/3/2022		0.052		0.0099	0.021		0.0063	
9/1/2022	0.0116							
9/2/2022				0.0097 (J)	0.0232		0.00654 (J)	
9/6/2022		0.0578	0.0136					
9/7/2022						0.0634		
10/20/2022								0.00631 (J)
1/31/2023	0.0124	0.0499	0.0284	0.0099 (J)	0.0202	0.068	0.00659 (J)	
2/1/2023								0.00463 (J)
8/8/2023		0.0517	0.028	0.00909 (J)	0.0193	0.0577		0.00907 (J)
8/9/2023	0.0131						0.00637 (J)	
1/23/2024			0.0125			0.0779		0.00862 (J)
1/24/2024	0.0131	0.0547		0.0106	0.0172		0.00669 (J)	
8/20/2024	0.0119	0.0469	0.02	0.00934 (J)	0.0145	0.0585	0.00586 (J)	0.00958 (J)
2/4/2025	0.0123	0.0428	0.0212	0.00952 (J)	0.0172	0.0636	0.00667 (J)	0.00951 (J)
Mean	0.01114	0.04942	0.01959	0.008925	0.03769	0.06311	0.006112	0.007953
Std. Dev.	0.002052	0.005115	0.007023	0.00155	0.04741	0.005979	0.0007099	0.002025

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/22/2025 7:06 AM View: Appendix I & IV - Confidence Intervals (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-21	ARGWC-23	ARGWC-22	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
Upper Lim.	0.01221	0.05436	0.02358	0.00988	0.036	0.068	0.006671	0.01074
Lower Lim.	0.01007	0.04448	0.0156	0.008265	0.0172	0.0585	0.005598	0.005171

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/22/2025 7:06 AM View: Appendix I & IV - Confidence Intervals (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-21	ARGWC-22	ARAMW-7
8/30/2016	<0.0002		
10/26/2016	<0.0002		
1/25/2017	7.3E-05 (J)		
4/10/2017	<0.0002		
6/19/2017	<0.0002		
10/24/2017	<0.0002		
4/10/2018	<0.0002		
10/16/2018	<0.0002		
8/20/2019	<0.0002		
12/16/2019		<0.0002	
1/14/2020		<0.0002	
2/11/2020		<0.0002	
3/9/2020		<0.0002	
5/27/2020		<0.0002	
7/15/2020		<0.0002	
8/19/2020		<0.0002	
8/21/2020	<0.0002		
9/22/2020		<0.0002	
9/8/2021	<0.0002		
9/10/2021		<0.0002	<0.0002
2/1/2022	<0.0002		
2/2/2022		<0.0002	<0.0002
9/1/2022	<0.0002		
9/6/2022		<0.0002	
9/7/2022			<0.0002
1/31/2023	<0.0002	<0.0002	<0.0002
8/8/2023		<0.0002	<0.0002
8/9/2023	<0.0002		
1/23/2024		0.000372	<0.0002
1/24/2024	<0.0002		
8/20/2024	<0.0002	<0.0002	<0.0002
2/4/2025	<0.0002	8E-05 (J)	0.000113 (J)
Mean	0.0001929	0.0002032	0.0001891
Std. Dev.	2.993E-05	5.405E-05	3.076E-05
Upper Lim.	0.0002	0.000372	0.0002
Lower Lim.	7.3E-05	8E-05	0.000113

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/22/2025 7:06 AM View: Appendix I & IV - Confidence Intervals (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-23	ARGWC-22	ARAMW-1	ARAMW-2	ARAMW-7	ARAMW-8	ARAMW-9
12/16/2019	0.025	0.0018 (J)					
1/14/2020	0.032	0.0012 (J)					
2/11/2020	0.021	0.00093 (J)					
3/9/2020	0.013 (J)	0.00067 (J)					
5/27/2020	0.048	<0.015					
6/24/2020		<0.015	0.0051 (J)	<0.015			
6/25/2020	0.055						
7/15/2020	0.055	<0.015					
8/19/2020		<0.015					
8/20/2020	0.061		0.0076 (J)	0.0013 (J)			
9/22/2020	0.053	<0.015					
9/30/2020		<0.015	0.0054 (J)				
10/1/2020	0.064			<0.015			
11/30/2020					0.0012 (J)		
12/1/2020						0.056	
2/10/2021	0.063	<0.015	0.0043 (J)				
2/11/2021				<0.015	<0.001	0.038	
9/9/2021	0.071		0.0059 (J)			0.12	
9/10/2021		<0.015		<0.015	<0.001		
2/2/2022		<0.015			<0.001		
2/3/2022	0.065		0.0049 (J)	<0.015		0.16	
9/2/2022			0.00785	0.000603 (J)		0.175	
9/6/2022	0.067	0.000203 (J)					
9/7/2022					0.000379 (J)		
10/20/2022							0.0205
1/31/2023	0.0671	0.000496 (J)	0.00974	0.000491 (J)	<0.001	0.188	
2/1/2023							0.014
8/8/2023	0.0618	0.000514 (J)	0.00667	0.0011	<0.001		0.0109
8/9/2023						0.203	
1/23/2024		0.00025 (J)			<0.001		0.00683
1/24/2024	0.0651		0.00937	0.00101		0.196	
8/20/2024	0.074	0.000406 (J)	0.00873	0.000585 (J)	0.000257 (J)	0.195	0.00237
2/4/2025	0.0548	0.000397 (J)	0.0127	0.000623 (J)	0.000321 (J)	0.189	0.00267
Mean	0.05346	0.007467	0.007355	0.006726	0.0008157	0.152	0.009545
Std. Dev.	0.01779	0.007351	0.002475	0.007307	0.0003495	0.06044	0.00704
Upper Lim.	0.06393	0.015	0.009297	0.015	0.001	0.1967	0.01922
Lower Lim.	0.04721	0.000406	0.005413	0.000585	0.000321	0.1263	0

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/22/2025 7:06 AM View: Appendix I & IV - Confidence Intervals (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-22
12/16/2019	<0.005
1/14/2020	<0.005
2/11/2020	<0.005
3/9/2020	<0.005
4/7/2020	<0.005
5/27/2020	<0.005
7/15/2020	<0.005
8/19/2020	<0.005
9/22/2020	<0.005
9/30/2020	<0.005
2/10/2021	<0.005
9/10/2021	0.002 (J)
2/2/2022	<0.005
9/6/2022	<0.005
1/31/2023	<0.005
8/8/2023	<0.005
1/23/2024	<0.005
8/20/2024	<0.005
2/4/2025	<0.005
Mean	0.004842
Std. Dev.	0.0006882
Upper Lim.	0.005
Lower Lim.	0.002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Silver (mg/L) Analysis Run 5/22/2025 7:06 AM View: Appendix I & IV - Confidence Intervals (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-21
6/23/2016	<0.001
10/26/2016	<0.001
4/10/2017	<0.001
10/24/2017	<0.001
4/10/2018	<0.001
10/16/2018	<0.001
3/27/2019	<0.001
10/8/2019	0.00043 (J)
4/7/2020	<0.001
10/1/2020	<0.001
2/10/2021	<0.001
9/8/2021	<0.001
2/1/2022	<0.001
9/1/2022	<0.001
1/31/2023	<0.001
8/9/2023	<0.001
1/24/2024	<0.001
8/20/2024	<0.001
2/4/2025	<0.001
Mean	0.00097
Std. Dev.	0.0001308
Upper Lim.	0.001
Lower Lim.	0.00043

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/22/2025 7:06 AM View: Appendix I & IV - Confidence Intervals (100% NDs)

Plant Arkwright Client: Southern Company Data: Arkwright No 2

	ARGWC-23	ARGWC-22
12/16/2019	<0.002	0.00078 (J)
1/14/2020	<0.002	0.00027 (J)
2/11/2020	0.00028 (J)	0.00034 (J)
3/9/2020	0.00026 (J)	0.00035 (J)
5/27/2020	0.00026 (J)	<0.002
7/15/2020	<0.002	<0.002
8/19/2020		<0.002
8/20/2020	<0.002	
9/22/2020	<0.002	<0.002
9/9/2021	<0.002	
9/10/2021		<0.002
2/2/2022		<0.002
2/3/2022	<0.002	
9/6/2022	<0.002	<0.002
1/31/2023	<0.002	<0.002
8/8/2023	<0.002	<0.002
1/23/2024		<0.002
1/24/2024	<0.002	
8/20/2024	<0.002	<0.002
2/4/2025	<0.002	<0.002
Mean	0.001675	0.001609
Std. Dev.	0.0006987	0.0007076
Upper Lim.	0.002	0.002
Lower Lim.	0.00028	0.00035

ND substitution: RL or RL/2 if <15% NDs.

FIGURE L.

Appendix I & IV - Trend Tests - Significant Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/22/2025, 7:09 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Lithium (mg/L)	**ARGWC-23**	**0.007192**	**128**	**62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	**ARGWA-19 (bg)**	**-0.0001027**	**-108**	**-66**	**Yes**	**21**	**61.9**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	**ARAMW-8**	**0.02997**	**31**	**23**	**Yes**	**10**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Appendix I & IV - Trend Tests - All Results

Plant Arkwright Client: Southern Company Data: Arkwright No 2 Printed 5/22/2025, 7:09 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	ARGWA-19 (bg)	0	9	76	No	23	82.61	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARGWA-20 (bg)	0	-38	-76	No	23	52.17	n/a	n/a	0.05	NP
Cobalt (mg/L)	ARAMW-7	0.005016	9	23	No	10	0	n/a	n/a	0.05	NP
Lithium (mg/L)	ARGWA-19 (bg)	-0.0001631	-72	-76	No	23	4.348	n/a	n/a	0.05	NP
Lithium (mg/L)	ARGWA-20 (bg)	0	10	76	No	23	82.61	n/a	n/a	0.05	NP
Lithium (mg/L)	**ARGWC-23**	**0.007192**	**128**	**62**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	ARAMW-7	0.0006215	5	23	No	10	0	n/a	n/a	0.05	NP
Molybdenum (mg/L)	**ARGWA-19 (bg)**	**-0.0001027**	**-108**	**-66**	**Yes**	**21**	**61.9**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	ARGWA-20 (bg)	0	0	66	No	21	100	n/a	n/a	0.05	NP
Molybdenum (mg/L)	**ARAMW-8**	**0.02997**	**31**	**23**	**Yes**	**10**	**0**	**n/a**	**n/a**	**0.05**	**NP**

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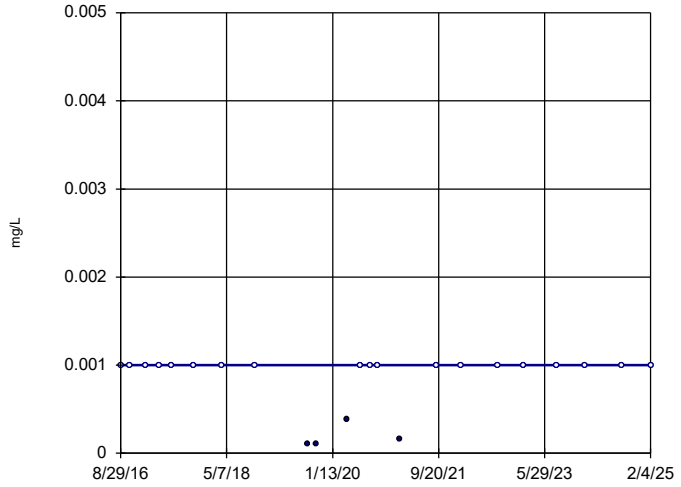
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-19 (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 9
critical = 76

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 5/22/2025 7:07 AM View: Appendix I & IV - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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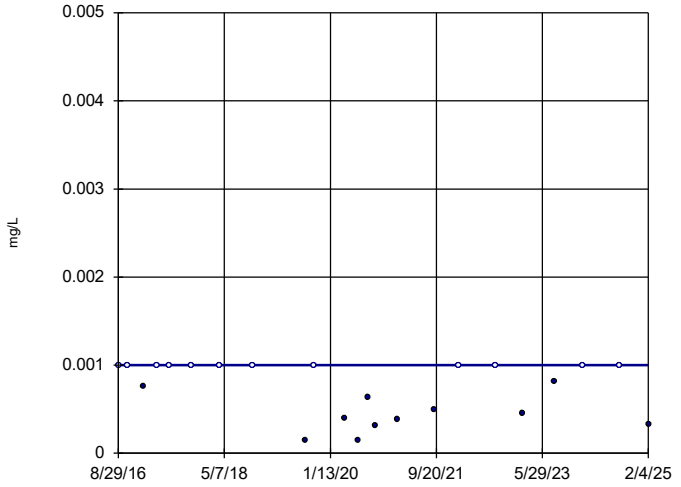
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-20 (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -38
critical = -76

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 5/22/2025 7:07 AM View: Appendix I & IV - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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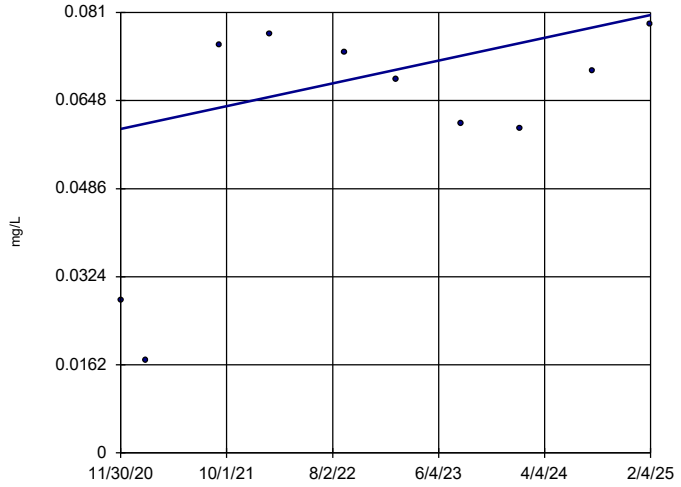
Sen's Slope Estimator

ARAMW-7



n = 10

Slope = 0.005016 units per year.

Mann-Kendall statistic = 9
critical = 23

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 5/22/2025 7:07 AM View: Appendix I & IV - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

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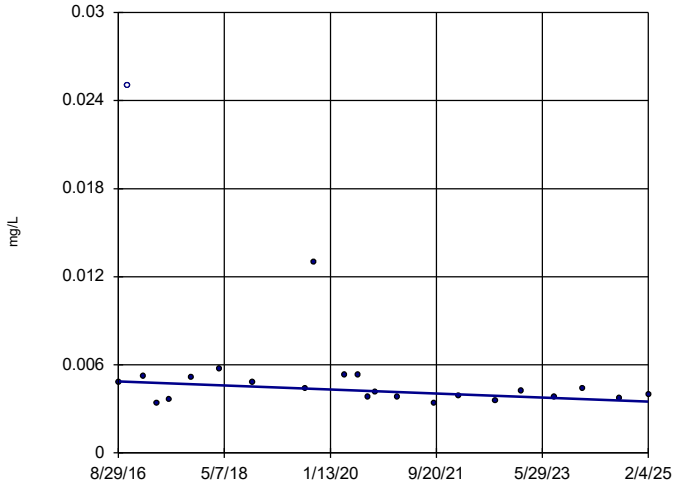
Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-19 (bg)



n = 23

Slope = -0.0001631 units per year.

Mann-Kendall statistic = -72
critical = -76

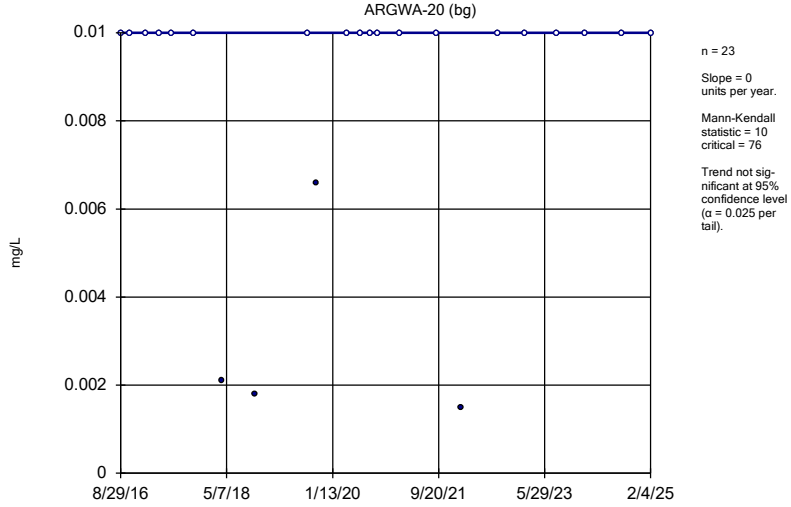
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 5/22/2025 7:07 AM View: Appendix I & IV - Trend
Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-20 (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 10 critical = 76

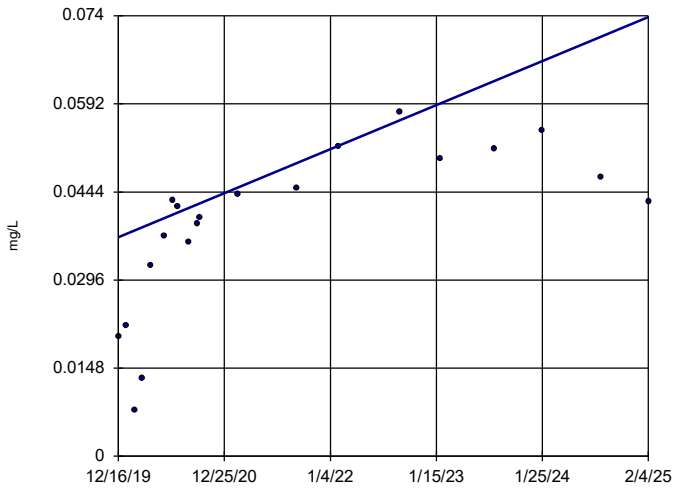
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 5/22/2025 7:08 AM View: Appendix I & IV - Trend

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARGWC-23



n = 20

Slope = 0.007192 units per year.

Mann-Kendall statistic = 128 critical = 62

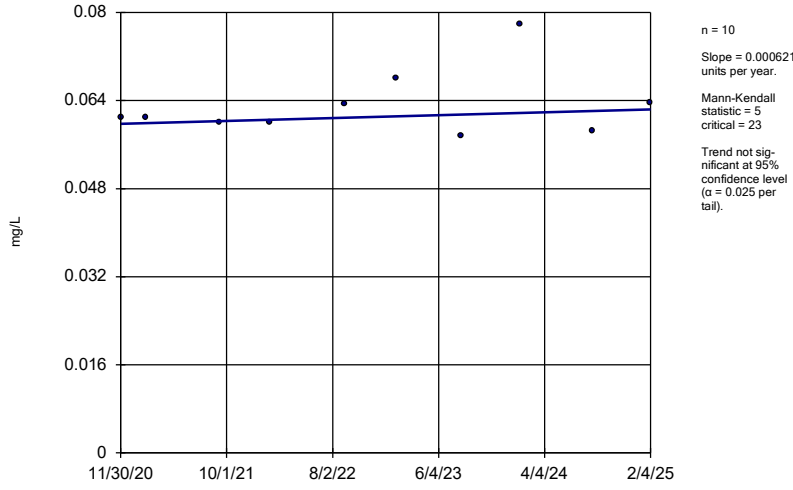
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 5/22/2025 7:08 AM View: Appendix I & IV - Trend

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Sen's Slope Estimator

ARAMW-7



n = 10

Slope = 0.0006215 units per year.

Mann-Kendall statistic = 5 critical = 23

Trend not significant at 95% confidence level (α = 0.025 per tail).

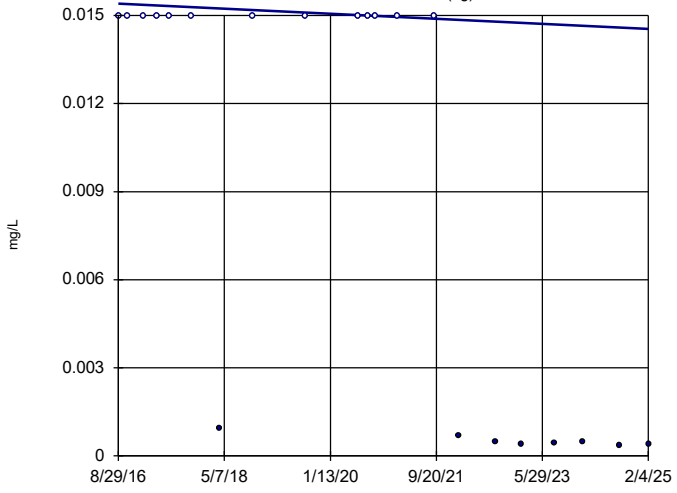
Constituent: Lithium Analysis Run 5/22/2025 7:08 AM View: Appendix I & IV - Trend

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-19 (bg)



n = 21

Slope = -0.0001027 units per year.

Mann-Kendall statistic = -108 critical = -66

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

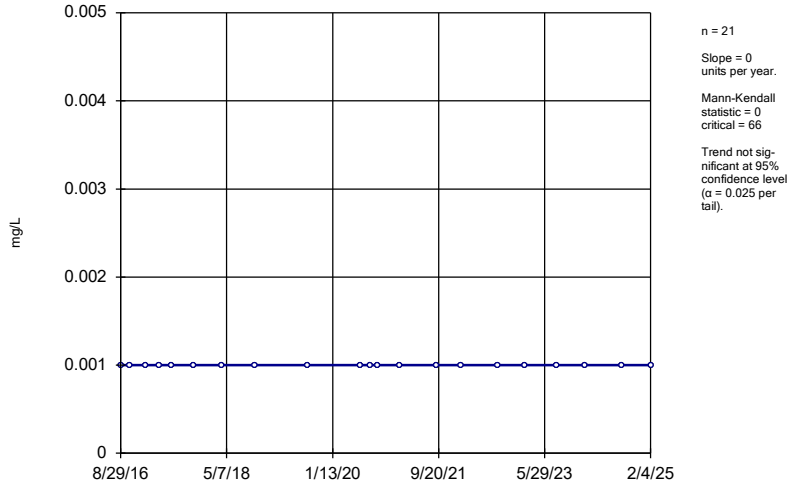
Constituent: Molybdenum Analysis Run 5/22/2025 7:08 AM View: Appendix I & IV - Trend

Plant Arkwright Client: Southern Company Data: Arkwright No 2

Hollow symbols indicate censored values.

Sen's Slope Estimator

ARGWA-20 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 66

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 5/22/2025 7:08 AM View: Appendix I & IV - Trend

Plant Arkwright Client: Southern Company Data: Arkwright No 2

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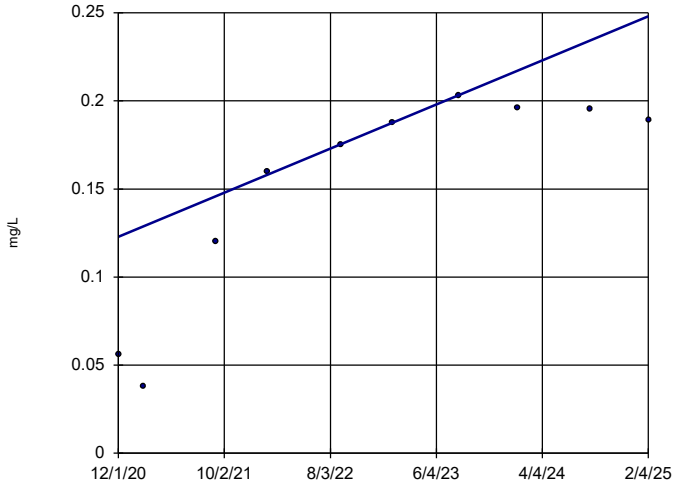
Sen's Slope Estimator

ARAMW-8



n = 10

Slope = 0.02997 units per year.

Mann-Kendall statistic = 31 critical = 23

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 5/22/2025 7:08 AM View: Appendix I & IV - Trend

Plant Arkwright Client: Southern Company Data: Arkwright No 2