



**2025 ANNUAL GROUNDWATER
MONITORING REPORT**

Plant Arkwright
Ash Pond 1 (AP-1) Landfill
Macon, Georgia

July 31, 2025

Prepared for:

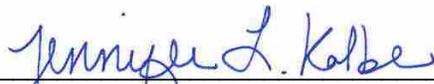


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**2025 Annual Groundwater Monitoring Report
Plant Arkwright Ash Pond 1 Landfill**

CERTIFICATION STATEMENT

This 2025 Annual Groundwater Monitoring Report, Plant Arkwright, Ash Pond 1 Landfill has been prepared in compliance with the Interim Groundwater Monitoring Plan submitted to the Georgia Environmental Protection Division on September 24, 2021. Plant Arkwright AP-1 Landfill closed according to Solid Waste Management Tracking Number 011-030D(LI) since July 30, 2010. This report has been prepared 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.



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Date 7/31/2025



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Executive Summary

This summary of the *2025 Annual Groundwater Monitoring Report* provides the status of the groundwater monitoring program from July 2024 through June 2025 at the Georgia Power Company (Georgia Power) former Plant Arkwright Ash Pond 1 (AP-1) Landfill. This summary was prepared by Stantec Consulting Services Inc. (Stantec) on behalf of Georgia Power.

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 31-acre AP-1 Landfill is located south of the former plant area and is bordered by the Ocmulgee River, Beaverdam Creek, and a Norfolk Southern Railroad line. 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. The AP-1 Landfill received a Closure Certificate on July 30, 2010, under Solid Waste Permit Number 011-030D(LI). AP-1 Landfill is currently in post-closure care.

A coal combustion residuals (CCR) unit solid waste handling permit application, dated November 2018, was submitted to the Georgia Environmental Protection Division (GA EPD) pursuant to the requirements of Georgia Administrative Code Rule 391-3-4-.10. Per the 2018 permit submittal, Georgia Power has elected to remove CCR material from AP-1 Landfill and place it in a lined landfill. The Groundwater Monitoring Plan, Revision 1, is a minor modification to Solid Waste Permit Number 011-030D(LI) and an interim plan, as requested by GA EPD on March 23, 2021, to be used until the new CCR unit solid waste handling permit is issued and a permanent groundwater monitoring system is established for AP-1 Landfill. Monitoring and reporting utilizing the existing interim groundwater monitoring network will be conducted on a semi-annual basis in accordance with the Groundwater Monitoring Plan until CCR removal activities require the interim piezometers to be abandoned. Groundwater monitoring at AP-1 Landfill has been initiated in order to meet GA EPD requirements.

During the 2025 annual reporting period, Stantec conducted two semi-annual groundwater sampling events in August 2024 and February 2025. Samples were analyzed for the full suites of Appendix III and Appendix IV constituents listed in Title 40, Code of Federal Regulations, Part 257.

Georgia Power will continue semi-annual groundwater monitoring and reporting at the AP-1 Landfill. Reports will be provided to GA EPD semi-annually.



Plant Arkwright Ash Pond 1 Landfill



Acronyms / Abbreviations

40 CFR	Title 40 Code of Federal Regulations
AP-1	Ash Pond 1
CCR	Coal Combustion Residuals
District	Washington Slope District
DO	Dissolved Oxygen
GA EPD	Georgia Environmental Protection Division
GEL	GEL Laboratories LLC
Georgia Power	Georgia Power Company
mg/L	Milligrams per Liter
NELAP	National Environmental Laboratory Accreditation Program
NTU	Nephelometric Turbidity Units
ORP	Oxidation-Reduction Potential
Pace	Pace Analytical Services, LLC
PWR	Partially Weathered Rock
QA/QC	Quality Assurance/Quality Control
Site	Former Plant Arkwright Ash Pond 1 Landfill
Stantec	Stantec Consulting Services, Inc.
US EPA	United States Environmental Protection Agency



1.0 Introduction

This *2025 Annual Groundwater Monitoring Report* has been prepared to document groundwater monitoring activities conducted at the Georgia Power Company (Georgia Power) former Plant Arkwright Ash Pond-1 (AP-1) Landfill Site (Site).

Groundwater monitoring and reporting for Plant Arkwright AP-1 Landfill are performed in accordance with the Interim Groundwater Monitoring Plan, Revision 1 (Jacobs, 2021), submitted to Georgia Environmental Protection Division (GA EPD) on September 24, 2021. This interim plan is a minor modification to Solid Waste Permit Number 011-030D(LI), as requested by GA EPD on March 23, 2021. Per the 2018 Georgia Power Company (CCR) permit submittal, Georgia Power has elected to remove CCR material from AP-1 Landfill and place it in a lined landfill. Groundwater monitoring at the Site will be conducted in accordance with this Interim Groundwater Monitoring Plan until the new CCR unit solid waste handling permit is issued, and a permanent groundwater monitoring network is established for AP-1 Landfill. This 2025 annual report documents the activities completed between July 2024 and June 2025. Two groundwater monitoring events were conducted during this monitoring period in August 2024 and February 2025.

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 31-acre AP-1 Landfill is located south of the former plant area and is bordered by the Ocmulgee River, Beaverdam Creek, and a Norfolk Southern Railroad line (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.

AP-1 Landfill was constructed prior to 1958 and was closed with 2 feet of soil cover and vegetation in 1990. Regrading and stabilization of the riverbank and creek bank occurred in two phases in 2004 and 2007. Additionally, the slopes and top of AP-1 Landfill were regraded by relocating CCR and placing additional cover soil (Jacobs, 2018).

AP-1 Landfill received a Closure Certificate on July 30, 2010, under Solid Waste Permit Number 011-030D(LI) and is currently in post-closure care. A CCR unit solid waste handling permit application package for the AP-1 Landfill was submitted to GA EPD in November 2018 and is currently under review. To continue stabilization and streambank improvement of the AP-1 Landfill slope and to reduce the steepness of the slope along the south point of the AP-1 Landfill, the south point was excavated and regraded in late 2023 under GA EPD's approval of a minor modification. CCR materials were removed and transported to a CCR Stockpile within the Landfill footprint. The CCR Stockpile as well as the south point after CCR removal was subsequently graded and covered with suitable material in accordance with permit requirements. Activities were documented in the AP-1 South Point Slope Improvement CCR Removal and Cover Certification Report, which was submitted to GA EPD on April 26, 2024.



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 overburden thickness ranging from 22 to 62 feet, overlying a thin layer (5 to 10 feet) of partially weathered rock (PWR) above a more competent bedrock. The underlying bedrock consists of quartzofeldspathic gneiss, hornblende gneiss, and schist (Jacobs, 2021).

1.2.2 Site Hydrogeology

The uppermost aquifer at the Site consists of saturated overburden, PWR, and upper bedrock. The overburden primarily consists of saprolitic soils and saprolite up to 36-feet thick. Where present the underlying PWR is typically thin, ranging from 1- to 5-feet thick. 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.

Comparison of recent AP-1 groundwater elevation data at adjacent overburden and shallow fractured bedrock piezometers show that groundwater elevations in the overburden and upper bedrock are nearly identical. This, in combination with observed weathering and discoloration in fracture 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 interim piezometers



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1.0 Introduction**

were installed to evaluate the uppermost occurrence of groundwater at the Site and form the groundwater monitoring system for AP-1 Landfill (Figure 2).

The top of the uppermost aquifer is defined by the (unconfined) water table surface present at depths of approximately 30 to 55 feet below ground surface (feet bgs) within the AP-1 boundary. The water table surface is typically found within the native soil or saprolite horizons underlying AP-1. The bottom of the uppermost aquifer is competent bedrock below the upper bedrock zone of fractured and weathered bedrock.

Slug testing data from the current Site monitoring wells and piezometers reflects a range of hydraulic conductivities from 10^{-6} to 10^{-4} centimeters per second in the water table (overburden) hydrostratigraphic unit. Slug testing results include information presented in the Limited Hydrogeological Assessment Report (Jacobs, 2018) and data collected from monitoring wells and piezometers subsequently installed. Groundwater level gauging data from the Site show stable water level trends, and the potentiometric surface maps depict groundwater flowing to the east, southeast, and northeast in the direction of the Ocmulgee River and Beaverdam Creek (Figures 3 and 4).

1.3 Groundwater Monitoring System

Georgia Power installed a temporary groundwater monitoring system within the uppermost aquifer at the Site. Wells and piezometers were located to serve as upgradient or downgradient monitoring points based on the groundwater flow direction (Table 1). The well and piezometer locations are depicted in Figure 2. Due to access constraints and safety concerns, downgradient piezometers at AP-1 Landfill were installed through CCR and will be removed during the closure by removal of the unit. A permanent groundwater monitoring system will be established following closure as noted in the 2018 CCR permit application.



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 and piezometers in the monitoring network depicted in Figure 2. In accordance with 40 CFR § 257.93, Table 2 presents a summary of the groundwater sampling events completed for AP-1 Landfill during this monitoring period.

2.1 Well and Piezometer Maintenance

Wells and piezometers 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)). Well inspection forms are included in Appendix A. In August 2024 and February 2025, the wells and piezometers were inspected. There was no need for corrective actions for the wells or piezometers at AP-1 Landfill during this reporting period, as documented in Appendix A.

2.2 Surface Water Sampling

Due to the close proximity of Beaverdam Creek and the Ocmulgee River in the downgradient direction, Georgia Power proactively collected surface water samples. Surface water samples were collected from four locations along the Ocmulgee River and two locations along Beaverdam Creek in August 2024 and February 2025, as shown on Figure 2.

Surface water samples were analyzed for the full suites of 40 CFR Part 257 Appendix III and 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. Georgia Power will continue collecting the surface water samples semi-annually during interim groundwater monitoring.



3.0 Sample Methodology & Analyses

The semi-annual groundwater sampling events completed in August 2024 and February 2025 for AP-1 Landfill included sampling for the constituents listed in 40 CFR Part 257 Appendix III and Appendix IV. Groundwater analytical data and chain-of-custody records are located in Appendix B. The following sections describe methods used to conduct groundwater monitoring activities at the AP-1 Landfill.

3.1 Groundwater Elevation Measurements and Flow Direction

Prior to each sampling event, the static groundwater levels were measured in each well and piezometer at AP-1 Landfill. The water level indicator was properly decontaminated between each measurement. Groundwater elevations are summarized in Table 3. The recorded groundwater levels were used to determine the groundwater elevations in each piezometer 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 east, southeast, and northeast in the direction of the Ocmulgee River and Beaverdam Creek. This groundwater flow pattern is generally consistent with historical groundwater flow patterns.

3.2 Groundwater Gradient and Flow Velocity

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

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

Where:

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

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

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

n_e = Effective porosity (unitless)

The general groundwater flow velocities were calculated for AP-1 Landfill based on hydraulic gradients, average hydraulic conductivity based on previous slug test data, and an estimated effective porosity of 0.20 for silty sand (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 velocities ranged from 0.0046 to 0.0051 feet/day in the southern portion of the Site to 0.12 to 0.15 feet/day in the northeastern portion of the Site (1.7 to 1.9 and 44 to 54 feet/year, respectively). The observed groundwater flow velocities calculated for this monitoring event 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 and February 2025. Sampling procedures were conducted in accordance with U.S. Environmental Protection Agency (US EPA) Region 4 *Laboratory Services and Applied Science Division Operating Procedures for Groundwater Sampling* (LSASDPROC-301-R6, April 22, 2023). Wells and piezometers 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 consecutive readings measured at 5-minute intervals.

- pH \pm 0.1 Standard Units
- Specific conductance \pm 5 %
- \pm 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. 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 suites of 40 CFR Part 257 Appendix III and 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 40 CFR Part 257 Appendix III and Appendix IV constituents. Laboratory analyses of the groundwater were performed by GEL, which is accredited by the National



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3.0 Sample Methodology & Analyses**

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 40 CFR Part 257 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 and February 2025 groundwater and surface water sampling event 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.



4.0 Groundwater and Surface Water Results

The analytical data for the 40 CFR Part 257 Appendix III and IV constituents for the August 2024 and February 2025 groundwater monitoring event and surface water sampling event are summarized in Table 5 and Table 6, respectively. The complete laboratory reports and field data sheets are included in Appendix B.



5.0 Monitoring Program Status

The AP-1 Landfill is currently in post-closure care. Groundwater monitoring has been initiated at the request of GA EPD. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be submitted to the GA EPD semi-annually.



6.0 Conclusions & Future Actions

This *2025 Annual Groundwater Monitoring Report* was prepared to fulfill the requirements of the Interim Groundwater Monitoring Plan (Jacobs, 2021). The AP-1 Landfill piezometers, monitoring wells, and surface water sampling locations were sampled in August 2024 and February 2025. The next semi-annual sampling event is scheduled for August 2025. The August 2025 semi-annual monitoring event will include sampling and analysis of the full suites of 40 CFR Part 257 Appendix III and IV constituents.



7.0 References

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TABLES



TABLE 1
SUMMARY OF PIEZOMETER CONSTRUCTION
Georgia Power Company - Plant Arkwright
Ash Pond 1 Landfill
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
AP1GWA-1	Detection	Upgradient	1066048.91	2439462.98	342.28	345.44	318.58	308.58	36.61	Overburden/Bedrock	04/20/2018
AP1GWA-2	Detection	Upgradient	1065095.10	2439623.37	338.55	341.42	320.85	310.85	30.58	Overburden/Bedrock	04/20/2018
AP1PZ-1	Detection	Downgradient	1062799.79	2440164.34	335.92	338.97	261.92	251.92	87.62	Overburden/Bedrock	05/01/2021
AP1PZ-2	Detection	Downgradient	1062573.21	2440300.14	336.64	339.58	287.48	277.48	62.67	Bedrock	05/02/2021
AP1PZ-3	Detection	Downgradient	1062286.28	2440387.36	335.50	338.57	281.70	271.70	67.44	Overburden/Bedrock	05/04/2021
AP1PZ-4	Detection	Downgradient	1061989.86	2440520.65	334.98	338.36	281.44	271.44	67.42	Overburden	05/11/2021
AP1PZ-5	Detection	Downgradient	1061645.61	2440599.18	336.61	339.81	283.06	273.06	67.25	Overburden	05/13/2021
AP1PZ-7	Detection	Downgradient	1061483.62	2440573.47	337.56	340.91	273.70	263.70	72.70	Overburden	05/15/2021
AP1PZ-8	Detection	Downgradient	1061721.72	2440362.39	334.94	338.31	280.10	270.10	66.09	Overburden/PWR	05/16/2021
AP1PZ-9	Detection	Downgradient	1062083.33	2440187.59	334.14	337.62	291.40	281.40	57.35	Bedrock	05/17/2021
AP1PZ-10	Detection	Downgradient	1062334.74	2440116.05	335.07	338.38	292.40	282.40	56.48	Bedrock	05/19/2021
AP1PZ-11	Detection	Downgradient	1062615.94	2440044.48	335.78	338.98	276.20	266.20	73.30	Overburden	05/26/2021

Notes:

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.
PWR indicates Partially Weathered Rock.

TABLE 2
GROUNDWATER SAMPLING EVENT SUMMARY
Georgia Power Company - Plant Arkwright
Ash Pond 1 Landfill
Macon, Bibb County, Georgia

Well ID	Hydraulic Location	Well Designation	August 19 2024	February 03 2025 - February 04 2025
			Monitoring Event	Monitoring Event
Georgia Power Company - Plant Arkwright - Ash Pond 1				
AP1GWA-1	Upgradient	Detection	X	X
AP1GWA-2	Upgradient	Detection	X	X
AP1PZ-1	Downgradient	Detection	X	X
AP1PZ-2	Downgradient	Detection	X	X
AP1PZ-3	Downgradient	Detection	X	X
AP1PZ-4	Downgradient	Detection	X	X
AP1PZ-5	Downgradient	Detection	X	X
AP1PZ-7	Downgradient	Detection	X	X
AP1PZ-8	Downgradient	Detection	X	X
AP1PZ-9	Downgradient	Detection	X	X
AP1PZ-10	Downgradient	Detection	X	X
AP1PZ-11	Downgradient	Detection	X	X

Notes:

X - Indicates well sampled during event

TABLE 3
SUMMARY OF GROUNDWATER ELEVATIONS
Georgia Power Company - Plant Arkwright
Ash Pond 1 Landfill
Macon, Bibb County, Georgia

Well ID	Top of Casing Elevation (feet)	August 2024		February 2025	
		Depth to Water (feet) ⁽¹⁾	Groundwater Elevation (feet) ⁽²⁾	Depth to Water (feet) ⁽¹⁾	Groundwater Elevation (feet) ⁽²⁾
AP1GWA-1	345.44	26.40	319.04	26.16	319.28
AP1GWA-2	341.42	18.57	322.85	18.79	322.63
AP1PZ-1	338.97	45.61	293.36	44.68	294.29
AP1PZ-2	339.58	43.02	296.56	43.00	296.58
AP1PZ-3	338.57	41.26	297.31	43.82	294.75
AP1PZ-4	338.36	47.81	290.55	46.81	291.55
AP1PZ-5	339.81	49.44	290.37	48.65	291.16
AP1PZ-7	340.91	50.92	289.99	50.01	290.90
AP1PZ-8	338.31	47.34	290.97	46.74	291.57
AP1PZ-9	337.62	42.29	295.33	42.24	295.38
AP1PZ-10	338.38	40.19	298.19	40.21	298.17
AP1PZ-11	338.98	40.19	298.79	40.24	298.74

Notes:

Groundwater elevations were measured as depth to water from the top of casing (TOC).

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

TABLE 4
GROUNDWATER FLOW VELOCITY CALCULATIONS
Georgia Power Company - Plant Arkwright
Ash Pond 1 Landfill
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	AP1PZ-10 to AP1PZ-5	298.19	290.37	7.82	842	0.00929	0.11	0.20	0.0051	1.9
	AP1PZ-11 to AP1PZ-1	298.79	293.36	5.43	222	0.0245	1.20	0.20	0.15	54
February 3, 2025	AP1PZ-10 to AP1PZ-5	298.17	291.16	7.01	842	0.00833	0.11	0.20	0.0046	1.7
	AP1PZ-11 to AP1PZ-1	298.74	294.29	4.45	222	0.0200	1.20	0.20	0.12	44

Notes:

1. The geometric mean of the in-situ hydraulic conductivity (K) slug test values for AP1PZ-10 and AP1PZ-5 used for AP1PZ-10 to AP1PZ-5 calculation; the slug test K value for AP1PZ-11 used for the AP1PZ-11 to AP1PZ-1 calculation.
2. 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.

TABLE 5
ANALYTICAL DATA SUMMARY - GROUNDWATER, AUGUST 2024 AND FEBRUARY 2025
Georgia Power Company - Plant Arkwright
Ash Pond 1 Landfill
Macon, Bibb County, Georgia

Sample Location	Sample Date	AP1GWA-1		AP1GWA-2		AP1PZ-1		AP1PZ-2		AP1PZ-3		AP1PZ-4	
		08/19/2024	02/03/2025	08/19/2024	02/03/2025	08/19/2024	02/03/2025	08/19/2024	02/03/2025	08/19/2024	02/04/2025	08/19/2024	02/03/2025
ANALYTE	UNITS												
APPENDIX III													
Boron	mg/L	0.116	0.104	0.0505	0.0423	0.382	0.404	0.421	0.370	1.53	1.62	4.01	4.05
Calcium	mg/L	17.4	15.5	6.58	5.40	32.6	34.5	177	148	392	425	395	404
Chloride	mg/L	1.80	2.16	2.13	2.09	2.33	2.07	3.37	2.98	5.61	5.29	5.64	5.22
Fluoride	mg/L	0.333	0.201	0.0788 J	0.0524 J	0.0960 J	0.0720 J	0.0687 J	< 0.0660	0.112	< 0.165	0.209	< 0.165
pH, Field	SU	5.55	5.37	6.09	6.02	6.4	6.44	6.08	6.13	5.59	5.59	6.29	6.18
Sulfate	mg/L	55.2	52.5	0.982	1.18	111	108	703	525	1390	1280	1450	1310
TDS	mg/L	149	112	57.0	47.0	231	236	1060	902	2020	2150	2200	2040
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	< 0.00100	< 0.00100
Arsenic	mg/L	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	< 0.00200	0.00272 J	0.00208 J
Barium	mg/L	0.0515	0.0523 J	0.0403	0.0350 J	0.0358	0.0332 J	0.0233	0.0201 J	0.0207	0.0219 J	0.0308	0.0290 J
Beryllium	mg/L	0.00212	0.00169 J	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Cadmium	mg/L	0.000367 J	< 0.000300	< 0.000300	< 0.000300	< 0.000300	< 0.000300	0.000403 J	< 0.000300	0.00537	0.00200 J	< 0.000300	< 0.000300
Chromium	mg/L	0.00445 J	0.00393 J	0.00345 J	0.00596 J	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300	< 0.00300
Cobalt	mg/L	0.00662	0.00472 J	0.00177	< 0.000300	0.000733 J	0.00141 J	0.102	0.0453	0.0561	0.0579	0.000625 J	0.000495 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	< 0.000500
Lithium	mg/L	0.0112	0.00946 J	< 0.00300	< 0.00300	0.00458 J	0.00415 J	0.0184	0.0119 J	0.0632	0.0616	0.00642 J	0.00581 J
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	0.000122 J
Molybdenum	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.000419 J	0.000437 J	< 0.000200	< 0.000200	0.000272 J	0.000308 J	0.00402	0.00419 J
Combined Radium 226 + 228	pCi/L	2.77	0.639 U	2.77	0.464 U	1.91 U	0.0270 U	2.04	1.40 U	4.91	1.76	0 U	1.27 U
Selenium	mg/L	0.00316 J	0.00268 J	< 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	< 0.000600

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 AND FEBRUARY 2025
Georgia Power Company - Plant Arkwright
Ash Pond 1 Landfill
Macon, Bibb County, Georgia

Sample Location	Sample Date	AP1PZ-5		AP1PZ-7		AP1PZ-8		AP1PZ-9		AP1PZ-10		AP1PZ-11	
		08/19/2024	02/03/2025	08/19/2024	02/03/2025	08/19/2024	02/04/2025	08/19/2024	02/04/2025	08/19/2024	02/03/2025	08/19/2024	02/03/2025
ANALYTE	UNITS												
APPENDIX III													
Boron	mg/L	7.14	7.92	3.38	3.46	2.94	3.01	0.729	0.815	0.366	0.379	0.152	0.181
Calcium	mg/L	606	606	364	359	315	317	67.8	71.3	86.4	75.2	24.7	25.0
Chloride	mg/L	9.55	9.99	6.81	6.24	3.55	3.24	4.57	3.77	9.67	6.52	1.33	1.25
Fluoride	mg/L	0.320	0.461 J	0.167	< 0.165	0.274	0.301	0.795	0.623	0.464	0.415	0.106	0.0769 J
pH, Field	SU	6.08	6.05	6.26	6.27	6.72	6.58	4.48	5.92	6.37	6.36	6.8	6.79
Sulfate	mg/L	2140	2030	1400	1320	732	635	328	291	253	194	42.3	55.0
TDS	mg/L	3060	2950	2230	2220	1380	1380	541	529	514	467	515	194
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	< 0.00100	< 0.00100
Arsenic	mg/L	0.00434 J	0.00401 J	0.00288 J	0.00232 J	0.00221 J	< 0.00200	< 0.00200	< 0.00200	0.00267 J	0.00202 J	< 0.00200	< 0.00200
Barium	mg/L	0.0340	0.0345 J	0.0285	0.0267 J	0.0371	0.0349 J	0.0212	0.0207 J	0.0302	0.0327 J	0.0194	0.0200 J
Beryllium	mg/L	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	< 0.000200	0.000558	0.000645 J	< 0.000200	< 0.000200	< 0.000200	< 0.000200
Cadmium	mg/L	< 0.000300	< 0.000300	< 0.000300	< 0.000300	0.000322 J	0.000363 J	0.00118	0.00124 J	< 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	< 0.00300
Cobalt	mg/L	0.0890	0.0717	0.00141	0.00281 J	0.000544 J	0.000796 J	0.102	0.120	0.000895 J	0.00147 J	< 0.000300	< 0.000300
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	< 0.000500
Lithium	mg/L	0.414	0.327	< 0.00300	0.00300 J	0.00468 J	0.00357 J	0.143	0.157	0.0186	0.0233 J	< 0.00300	< 0.00300
Mercury	mg/L	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670	< 0.0000670
Molybdenum	mg/L	0.0375	0.0386 J	0.00173	0.00147 J	0.712	0.812	< 0.000200	< 0.000200	0.00163	0.000717 J	0.000492 J	0.000401 J
Combined Radium 226 + 228	pCi/L	4.26	1.08 U	1.46 U	0.511 U	0.809 U	0.966 U	3.57	3.76	0.528 U	0.509 U	0.314 U	0.282 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	< 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	< 0.000600

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 1 Landfill
Macon, Bibb County, GA

Sample Location		OR-0.8		OR-0.3		OR-0.1		OR+0.25	
Sample Date		08/13/2024	02/11/2025	08/13/2024	02/11/2025	08/13/2024	02/11/2025	08/13/2024	02/11/2025
ANALYTE	UNITS								
APPENDIX III									
Boron	mg/L	0.059	< 0.050	0.057	< 0.050	0.056	< 0.050	0.057	< 0.050
Calcium	mg/L	6.4	7.1	6.1	7.0	6.2	7.2	6.2	7.0
Chloride	mg/L	7.7	10.5	7.7	10.4	7.7	10.5	7.8	10.5
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
pH, Field	SU	7.91	7.59	7.86	7.63	7.81	7.56	7.38	7.55
Sulfate	mg/L	9.4	6.9	9.4	6.8	9.5	6.9	9.5	6.9
TDS	mg/L	88.0	75.0	73.0	69.0	74.0	65.0	57.0	64.0
APPENDIX IV									
Antimony	mg/L	< 0.0030	< 0.0010	< 0.0030	< 0.0010	< 0.0030	< 0.0010	< 0.0030	< 0.0010
Arsenic	mg/L	< 0.0050	< 0.0010	< 0.0050	< 0.0010	< 0.0050	< 0.0010	< 0.0050	< 0.0010
Barium	mg/L	0.018	0.031	0.013	0.031	0.041	0.030	0.034	0.031
Beryllium	mg/L	< 0.00050	< 0.00010	< 0.00050	< 0.00010	< 0.00050	< 0.00010	< 0.00050	< 0.00010
Cadmium	mg/L	< 0.00050	< 0.00010	< 0.00050	< 0.00010	< 0.00050	< 0.00010	< 0.00050	< 0.00010
Chromium	mg/L	< 0.0050	< 0.0010	< 0.0050	< 0.0010	< 0.0050	< 0.0010	< 0.0050	< 0.0010
Cobalt	mg/L	< 0.0050	< 0.0010	< 0.0050	< 0.0010	< 0.0050	< 0.0010	< 0.0050	< 0.0010
Combined Radium 226 + 228	pCi/L	0.401 U	1.38 U	0.124 U	0.655 U	0.159 U	0.800 U	0 U	1.11 U
Lead	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Lithium	mg/L	< 0.030	< 0.0025	< 0.030	< 0.0025	< 0.030	< 0.0025	< 0.030	< 0.0025
Mercury	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Molybdenum	mg/L	< 0.010	< 0.0010	< 0.010	< 0.0010	< 0.010	< 0.0010	< 0.010	< 0.0010
Selenium	mg/L	< 0.0050	< 0.0020	< 0.0050	< 0.0020	< 0.0050	< 0.0020	< 0.0050	< 0.0020
Thallium	mg/L	< 0.0010	< 0.00020	< 0.0010	< 0.00020	< 0.0010	< 0.00020	< 0.0010	< 0.00020
Additional Parameters									
Alkalinity Total as CaCO3	mg/L	29.8	26.4	29.7	26.4	30.0	26.7	30.4	26.3
Bicarbonate Alkalinity as CaCO3	mg/L	29.8	26.4	29.7	26.4	30.0	26.7	30.4	26.3
Magnesium	mg/L	2.2	2.1	2.1	2.2	2.1	2.2	2.1	2.1
Potassium	mg/L	3.3	< 5.0	3.1	< 5.0	3.1	< 5.0	3.1	< 5.0
Sodium	mg/L	10.1	10.8	9.6	10.7	9.6	10.9	9.8	10.8

Notes:

mg/L - milligrams per liter

pCi/L - picocuries per liter

SU - Standard Units

< - Indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.

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 1 Landfill
Macon, Bibb County, GA

Sample Location		BC-0.3		BC-0.1	
Sample Date		08/12/2024	02/10/2025	08/12/2024	02/10/2025
ANALYTE	UNITS				
APPENDIX III					
Boron	mg/L	< 0.040	< 0.050	0.051	< 0.050
Calcium	mg/L	11.5	9.2	15.1	9.3
Chloride	mg/L	7.5	8.5	7.5	8.4
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10
pH, Field	SU	7.47	7.42	7.57	7.62
Sulfate	mg/L	7.6	6.4	14.7	6.5
TDS	mg/L	135	89.0	120	88.0
APPENDIX IV					
Antimony	mg/L	< 0.0030	< 0.0010	< 0.0030	< 0.0010
Arsenic	mg/L	< 0.0050	< 0.0010	< 0.0050	< 0.0010
Barium	mg/L	0.048	0.039	0.014	0.037
Beryllium	mg/L	< 0.00050	< 0.00010	< 0.00050	< 0.00010
Cadmium	mg/L	< 0.00050	< 0.00010	< 0.00050	< 0.00010
Chromium	mg/L	< 0.0050	< 0.0010	< 0.0050	< 0.0010
Cobalt	mg/L	< 0.0050	< 0.0010	< 0.0050	< 0.0010
Combined Radium 226 + 228	pCi/L	0.106 U	0.303 U	0 U	0.242 U
Lead	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Lithium	mg/L	< 0.030	< 0.0025	< 0.030	< 0.0025
Mercury	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020
Molybdenum	mg/L	< 0.010	< 0.0010	< 0.010	< 0.0010
Selenium	mg/L	< 0.0050	< 0.0020	< 0.0050	< 0.0020
Thallium	mg/L	< 0.0010	< 0.00020	< 0.0010	< 0.00020
Additional Parameters					
Alkalinity Total as CaCO3	mg/L	55.7	40.5	59.3	41.1
Bicarbonate Alkalinity as CaCO3	mg/L	55.7	40.5	59.3	41.1
Magnesium	mg/L	4.9	4.2	6.1	4.2
Potassium	mg/L	2.3	< 5.0	2.8	< 5.0
Sodium	mg/L	8.5	9.1	9.3	9.2

Notes:

mg/L - milligrams per liter

pCi/L - picocuries per liter

SU - Standard Units

< - Indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.

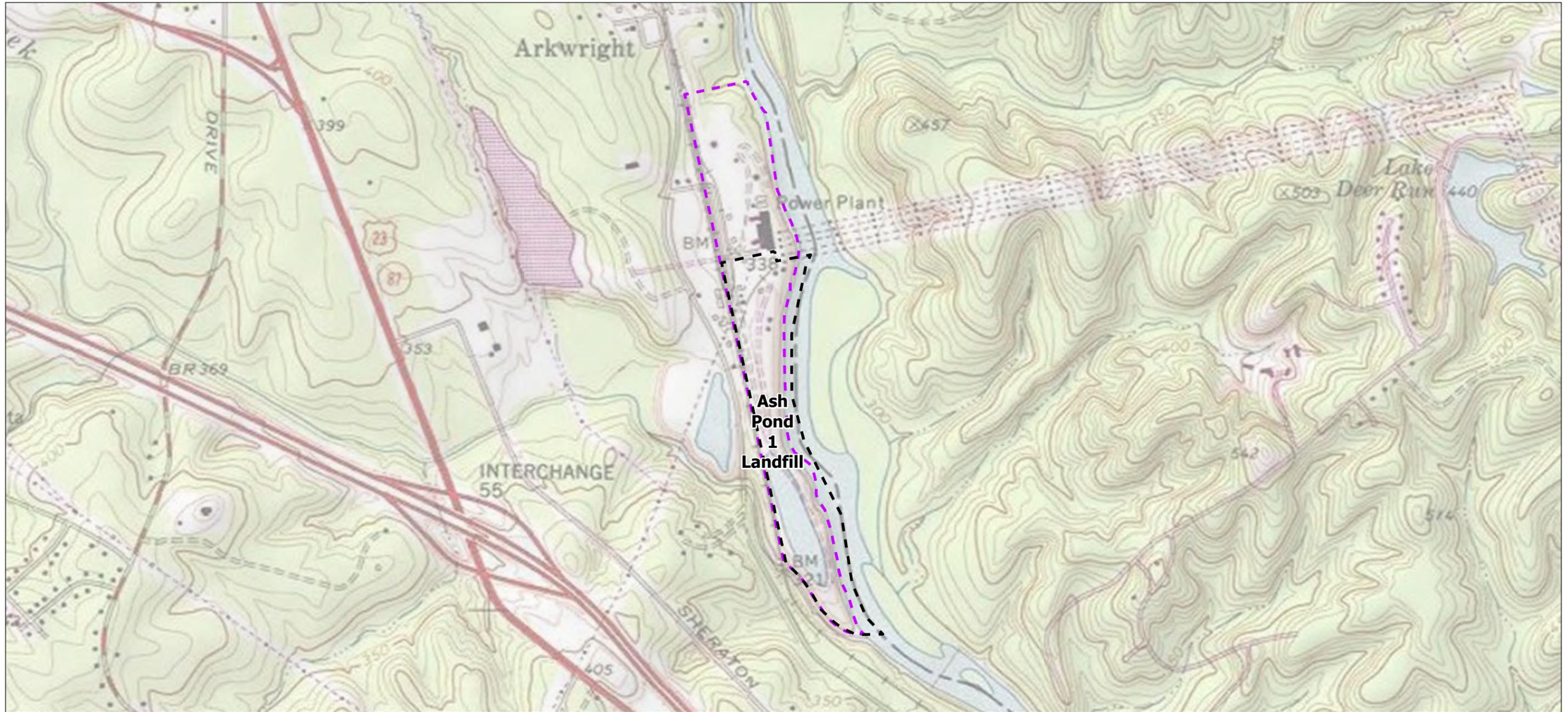
Radium data are a combination of radium isotopes 226 and 228. When results are reported below the

MDC (Minimum Detectable Concentration), data is displayed with an accompanying U.

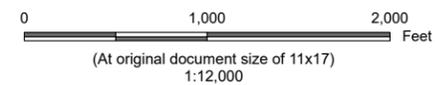
The MDC varies depending upon the sample amount and elapsed time of the measurement.

FIGURES





- Legend
-  Ash Pond 1 Landfill Permit Boundary
 -  Ash Pond 1 Tax Parcel



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
Georgia Power
2025 Annual Groundwater Monitoring Report
Plant Arkwright Ash Pond 1 Landfill

Figure No.

1

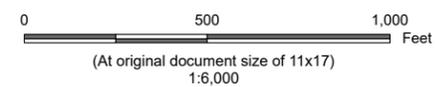
Title

Site Location Map

Notes
 1. Coordinate System: NAD 1983 StatePlane Georgia West FIPS 1002 Feet
 2. Data Sources: Tax Parcel and AP-1 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, Incubed



- Legend**
- Piezometer
 - ⊕ Well
 - ⊕ Abandoned Piezometer
 - ⊕ Surface Water Sampling Location
 - Beaverdam Creek
 - Ash Pond 1 Landfill Permit Boundary
 - Limit of Client Imagery (dated 1/2/2025)



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

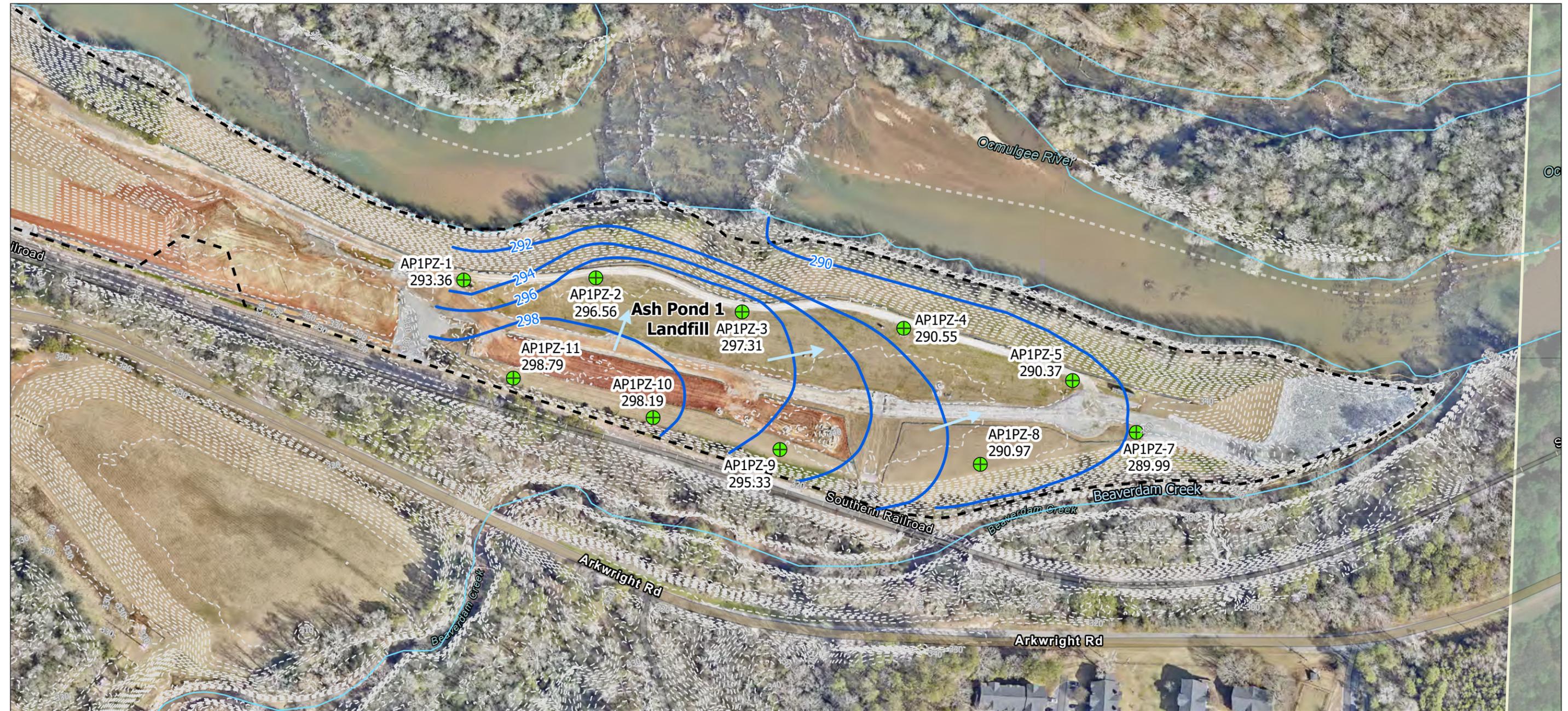
Client/Project
Georgia Power
2025 Annual Groundwater Monitoring Report
Plant Arkwright Ash Pond 1 Landfill
175569434

Figure No.

2

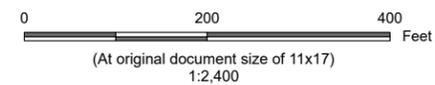
Title

**Piezometer and Surface Water
Sample Locations Map**



- Legend**
- Piezometer Location
 - Interpreted Groundwater Flow Direction
 - Potentiometric Surface Contour (feet (ft) NAVD88)
 - Beaverdam Creek/Ocmulgee River (Approximate)
 - Topographic Contour 2024 (2 ft interval)
 - Approximate Limits of Ash Pond 1 Landfill
 - Limit of Client Imagery (dated 1/22/2024)

293.36 Groundwater Elevation (ft NAVD88)
 AP1GWA-1 and AP1GWA-2 not included in contouring
 NAVD88 - North American Vertical Datum of 1988



Project Location
 Macon, Georgia

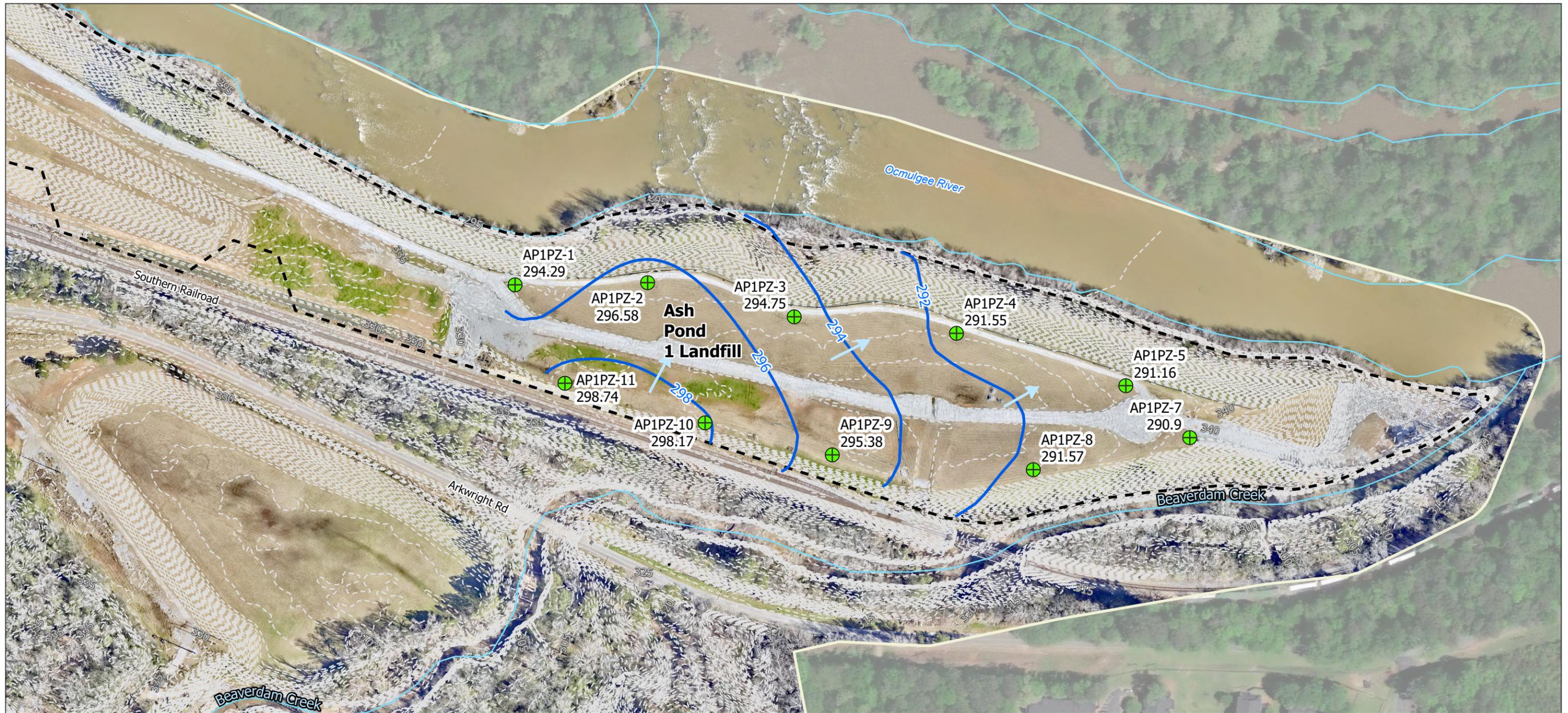
Prepared by DMB on 2/10/2025
 TR by CS on 2/10/2025
 IR by JK on 2/10/2025

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 Georgia Power
 2025 Annual Groundwater Monitoring Report
 Plant Arkwright Ash Pond 1 Landfill
 175569434

Figure No.

3

Title
**Potentiometric Surface Contour Map
 Ash Pond 1 Landfill - August 19, 2024**



- Legend**
- ⊕ Piezometer Location
 - Interpreted Groundwater Flow Direction
 - Potentiometric Surface Contour (feet (ft) NAVD88)
 - Beaverdam Creek/Ocmulgee River (Approximate)
 - Topographic Contour Dec 2024 (1 ft interval)
 - Approximate Limits of Ash Pond 1 Landfill
 - Limit of Client Imagery (dated 1/2/2025)



Project Location
Macon, Georgia

Client/Project
Georgia Power
2025 Annual Groundwater Monitoring Report
Plant Arkwright Ash Pond 1 Landfill

Figure No.
4

Title
**Potentiometric Surface Contour Map
Ash Pond 1 Landfill - February 3, 2025**

Notes

1. Coordinate System: NAD 1983 StatePlane Georgia West FIPS 1002 Feet
2. Data Sources: AP-1 Boundary, Piezometers, Topography, and Beaverdam Creek provided by Southern Company Services and Wood Environment & Infrastructure Solutions; Groundwater 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.

294.29 Groundwater Elevation (ft NAVD88)
 AP1GWA-1 and AP1GWA-2 not included in contouring
 NAVD88 - North American Vertical Datum of 1988

APPENDIX A

Well Inspections



Well ID:	Location/Identification				Protective Casing				
	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-1									
AP1GWA-1	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1GWA-2	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1PZ-1	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1PZ-2	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1PZ-3	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1PZ-4	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1PZ-5	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1PZ-7	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1PZ-8	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1PZ-9	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1PZ-10	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1PZ-11	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

Completed by ZL 08/19
 Checked by AS 08/20

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-1							
AP1GWA-1	Yes	Yes	Yes	Yes	Yes	Yes	NA
AP1GWA-2	Yes	Yes	Yes	Yes	Yes	Yes	NA
AP1PZ-1	Yes	Yes	Yes	Yes	Yes	Yes	NA
AP1PZ-2	Yes	Yes	Yes	Yes	Yes	Yes	NA
AP1PZ-3	Yes	Yes	Yes	Yes	Yes	Yes	NA
AP1PZ-4	Yes	Yes	Yes	Yes	Yes	Yes	NA
AP1PZ-5	Yes	Yes	Yes	Yes	Yes	Yes	NA
AP1PZ-7	Yes	Yes	Yes	Yes	Yes	Yes	NA
AP1PZ-8	Yes	Yes	Yes	Yes	Yes	Yes	NA
AP1PZ-9	Yes	Yes	Yes	Yes	Yes	Yes	NA
AP1PZ-10	Yes	Yes	Yes	Yes	Yes	Yes	No action needed, but estern most bollard has been struck by equipment and is leaning slightly
AP1PZ-11	Yes	Yes	Yes	Yes	Yes	Yes	NA

Well ID:	Location/Identification				Protective Casing				
	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-1									
AP1GWA-1	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1GWA-2	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1PZ-1	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1PZ-2	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1PZ-3	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1PZ-4	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1PZ-5	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1PZ-7	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1PZ-8	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1PZ-9	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1PZ-10	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
AP1PZ-11	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

Completed by A.S. 2/3/2025
 Checked by J.B. 2/21/25

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-1							
AP1GWA-1	Yes	Yes	Yes	Yes	Yes	Yes	NA
AP1GWA-2	Yes	Yes	Yes	Yes	Yes	Yes	NA
AP1PZ-1	Yes	Yes	Yes	Yes	Yes	Yes	NA
AP1PZ-2	Yes	Yes	Yes	Yes	Yes	Yes	NA
AP1PZ-3	Yes	Yes	Yes	Yes	Yes	Yes	NA
AP1PZ-4	Yes	Yes	Yes	Yes	Yes	Yes	NA
AP1PZ-5	Yes	Yes	Yes	Yes	Yes	Yes	NA
AP1PZ-7	Yes	Yes	Yes	Yes	Yes	Yes	NA
AP1PZ-8	Yes	Yes	Yes	Yes	Yes	Yes	NA
AP1PZ-9	Yes	Yes	Yes	Yes	Yes	Yes	NA
AP1PZ-10	Yes	Yes	Yes	Yes	Yes	Yes	No action needed, but eastern most bollard has been struck by equipment and is leaning slightly
AP1PZ-11	Yes	Yes	Yes	Yes	Yes	Yes	NA

APPENDIX B

Field Sampling Data and Analytical Data Reports



B.1 Field Sampling Data



Low-Flow Test Report:

Test Date / Time: 8/19/2024 11:49:59 AM

Project: Arkwright

Operator Name: Z Levy

Location Name: AP1GWA-1 Latitude: 32.94351958999998 Longitude: -83.70780180999998 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 26.84 ft Total Depth: 37.5 ft Initial Depth to Water: 26.36 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 31.8 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.19 ft	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

MP50 sn:21

ID: 104

CPM:4

Psi:25

Weather Conditions:

Clear, 84 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	+/- 0.33	
8/19/2024 11:49 AM	00:00	5.61 pH	23.96 °C	186.03 µS/cm	3.23 mg/L	3.72 NTU	188.0 mV	26.53 ft	300.00 ml/min
8/19/2024 11:54 AM	05:00	5.59 pH	22.34 °C	190.85 µS/cm	3.28 mg/L	2.32 NTU	136.3 mV	26.54 ft	300.00 ml/min
8/19/2024 11:59 AM	10:00	5.58 pH	22.05 °C	190.71 µS/cm	3.26 mg/L	1.83 NTU	129.0 mV	26.55 ft	300.00 ml/min
8/19/2024 12:04 PM	15:00	5.57 pH	22.16 °C	190.73 µS/cm	3.22 mg/L	2.10 NTU	128.0 mV	26.55 ft	300.00 ml/min
8/19/2024 12:09 PM	20:00	5.55 pH	22.20 °C	192.36 µS/cm	3.27 mg/L	2.04 NTU	128.0 mV	26.55 ft	300.00 ml/min

Samples

Sample ID:	Description:
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ARK-AP1GWA-1	@ 1215 6 bottles Metals Radium TDS Anions
ARK-AP1-EB-01	@ 1200 6 bottles Metals Radium TDS Anions

Low-Flow Test Report:

Test Date / Time: 8/19/2024 12:20:03 PM

Project: Arkwright

Operator Name: Dylan Quintal

Location Name: Arkwright, AP-1, AP1GWA-2 Latitude: 32.9273346601797 Longitude: -83.7005548551679 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 20.52 ft Total Depth: 31.1 ft Initial Depth to Water: 18.56 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 25.3 ft Estimated Total Volume Pumped: 8280 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1080302
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Test Notes:

Heron Dipper-T SN: 11DF2206171HB

MP-50 SN: 12

ID: 103

Pressure: 35 psi

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	
8/19/2024 12:20 PM	00:00	6.11 pH	22.07 °C	80.43 µS/cm	3.51 mg/L	3.57 NTU	61.3 mV	18.60 ft	400.00 ml/min
8/19/2024 12:25 PM	05:00	6.10 pH	22.04 °C	82.07 µS/cm	3.33 mg/L	3.59 NTU	49.8 mV	18.60 ft	400.00 ml/min
8/19/2024 12:30 PM	10:00	6.10 pH	22.13 °C	83.56 µS/cm	3.20 mg/L	2.95 NTU	43.7 mV	18.60 ft	400.00 ml/min
8/19/2024 12:35 PM	15:42	6.08 pH	22.22 °C	84.24 µS/cm	3.06 mg/L	1.91 NTU	40.8 mV	18.60 ft	400.00 ml/min
8/19/2024 12:40 PM	20:42	6.09 pH	22.19 °C	84.79 µS/cm	2.95 mg/L	1.93 NTU	36.6 mV	18.60 ft	400.00 ml/min

Samples

Sample ID:	Description:
ARK-AP1GWA-2	Time: 1245 6 bottles: Metals, Anions, TDS, Radium
ARK-AP1-FD-01	6 bottles: Metals, Anions, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 8/19/2024 12:23:34 PM

Project: Arkwright

Operator Name: J. Bankston

Location Name: AP1PZ-1 Latitude: 32.92105030292518 Longitude: -83.69877563874955 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 77 ft Total Depth: 87.6 ft Initial Depth to Water: 45.62 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 82.6 ft Estimated Total Volume Pumped: 5500 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.07 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1080306
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Test Notes:

MP-50 SN/23 Heron 11DDF2206168HB

ID: 43

80 PSI

Weather Conditions:

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	
8/19/2024 12:23 PM	00:00	6.42 pH	23.11 °C	345.05 µS/cm	0.79 mg/L	2.11 NTU	125.3 mV	45.67 ft	100.00 ml/min
8/19/2024 12:28 PM	05:00	6.42 pH	23.37 °C	331.11 µS/cm	0.45 mg/L	1.56 NTU	95.6 mV	45.86 ft	100.00 ml/min
8/19/2024 12:33 PM	10:00	6.42 pH	23.15 °C	331.11 µS/cm	0.44 mg/L	1.52 NTU	86.0 mV	45.96 ft	100.00 ml/min
8/19/2024 12:38 PM	15:00	6.42 pH	23.71 °C	330.00 µS/cm	0.50 mg/L	1.26 NTU	85.2 mV	46.12 ft	100.00 ml/min
8/19/2024 12:43 PM	20:00	6.41 pH	23.82 °C	330.19 µS/cm	0.51 mg/L	0.92 NTU	102.2 mV	46.24 ft	100.00 ml/min
8/19/2024 12:48 PM	25:00	6.40 pH	23.90 °C	329.86 µS/cm	0.53 mg/L	0.82 NTU	86.2 mV	46.29 ft	100.00 ml/min
8/19/2024 12:53 PM	30:00	6.41 pH	23.96 °C	329.80 µS/cm	0.55 mg/L	1.11 NTU	102.8 mV	46.34 ft	100.00 ml/min
8/19/2024 12:58 PM	35:00	6.41 pH	23.89 °C	329.37 µS/cm	0.53 mg/L	0.93 NTU	85.8 mV	46.41 ft	100.00 ml/min
8/19/2024 1:03 PM	40:00	6.40 pH	24.14 °C	329.66 µS/cm	0.54 mg/L	0.80 NTU	83.6 mV	46.49 ft	100.00 ml/min
8/19/2024 1:08 PM	45:00	6.41 pH	23.87 °C	329.47 µS/cm	0.54 mg/L	0.84 NTU	100.2 mV	46.56 ft	100.00 ml/min
8/19/2024 1:13 PM	50:00	6.40 pH	24.04 °C	328.70 µS/cm	0.54 mg/L	1.00 NTU	83.7 mV	46.62 ft	100.00 ml/min
8/19/2024 1:18 PM	55:00	6.40 pH	24.01 °C	329.06 µS/cm	0.53 mg/L	1.00 NTU	98.7 mV	46.69 ft	100.00 ml/min

Samples

Sample ID:	Description:
ARK-AP1PZ-1	@13:25 6 bottles, Metals, radiologicals, TDS, anions
ARK-AP1-FB-01	@1330 6 bottles, metals, radiologicals, TDS,anions

Low-Flow Test Report:

Test Date / Time: 8/19/2024 2:35:39 PM

Project: Arkwright

Operator Name: J. Bankston

Location Name: AP1PZ-2 Latitude: 32.917142058897994 Longitude: -83.6995553144166 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 52.1 ft Total Depth: 62.7 ft Initial Depth to Water: 42.97 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 56.6 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.37 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1080306
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Test Notes:

MP-50 SN: 23,

ID: 43

65 PSI

Heron SN 11DF2206168HB

Weather Conditions:

Sunny, 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	+/- 0.3	
8/19/2024 2:35 PM	00:00	6.15 pH	24.01 °C	1,024.0 µS/cm	0.83 mg/L	23.10 NTU	130.5 mV	43.14 ft	100.00 ml/min
8/19/2024 2:40 PM	05:00	6.17 pH	24.67 °C	1,021.1 µS/cm	0.37 mg/L	22.50 NTU	121.9 mV	43.41 ft	100.00 ml/min
8/19/2024 2:45 PM	10:00	6.17 pH	24.78 °C	1,022.5 µS/cm	0.28 mg/L	20.90 NTU	90.5 mV	43.42 ft	100.00 ml/min
8/19/2024 2:50 PM	15:00	6.16 pH	24.86 °C	1,033.6 µS/cm	0.26 mg/L	15.90 NTU	93.1 mV	43.30 ft	100.00 ml/min
8/19/2024 2:55 PM	20:00	6.15 pH	24.90 °C	1,054.3 µS/cm	0.24 mg/L	11.80 NTU	68.5 mV	43.27 ft	100.00 ml/min
8/19/2024 3:00 PM	25:00	6.14 pH	24.83 °C	1,072.0 µS/cm	0.24 mg/L	4.28 NTU	73.5 mV	43.33 ft	100.00 ml/min
8/19/2024 3:05 PM	30:00	6.13 pH	24.82 °C	1,083.9 µS/cm	0.24 mg/L	4.88 NTU	65.7 mV	43.33 ft	100.00 ml/min
8/19/2024 3:10 PM	35:00	6.12 pH	24.98 °C	1,102.9 µS/cm	0.23 mg/L	6.11 NTU	66.1 mV	43.33 ft	100.00 ml/min
8/19/2024 3:15 PM	40:00	6.09 pH	25.20 °C	1,137.6 µS/cm	0.25 mg/L	5.69 NTU	71.5 mV	43.41 ft	100.00 ml/min
8/19/2024 3:20 PM	45:00	6.09 pH	24.75 °C	1,144.1 µS/cm	0.22 mg/L	5.59 NTU	70.4 mV	43.34 ft	100.00 ml/min
8/19/2024 3:25 PM	50:00	6.08 pH	24.91 °C	1,155.0 µS/cm	0.21 mg/L	4.79 NTU	81.4 mV	43.35 ft	100.00 ml/min

8/19/2024 3:30 PM	55:00	6.08 pH	24.69 °C	1,163.0 μS/cm	0.21 mg/L	4.79 NTU	74.0 mV	43.36 ft	100.00 ml/min
8/19/2024 3:35 PM	01:00:00	6.08 pH	24.77 °C	1,167.1 μS/cm	0.20 mg/L	3.80 NTU	84.1 mV	43.34 ft	100.00 ml/min

Samples

Sample ID:	Description:
ARK-AP1PZ-2	Sample Time: 1540; 6 bottles: Metals, Anions, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 8/19/2024 4:36:29 PM

Project: Arkwright

Operator Name: J. Bankston

Location Name: AP1PZ-3 Latitude: 32.91961996028794 Longitude: -83.69801408706404 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 56.9 ft Total Depth: 67.4 ft Initial Depth to Water: 43.95 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 61.4 ft Estimated Total Volume Pumped: 4500 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.25 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1080306
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Test Notes:

MP-50 SN: 23,

ID: 43

60 PSI

Heron dipper-T SN 11DF2206168HB

Weather Conditions:

Sunny 90F

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	
8/19/2024 4:36 PM	00:00	5.55 pH	25.14 °C	2,038.9 µS/cm	1.60 mg/L	3.12 NTU	176.0 mV	44.14 ft	100.00 ml/min
8/19/2024 4:41 PM	05:00	5.58 pH	24.77 °C	2,049.4 µS/cm	0.98 mg/L	1.40 NTU	158.0 mV	44.14 ft	100.00 ml/min
8/19/2024 4:46 PM	10:00	5.58 pH	25.16 °C	2,061.5 µS/cm	0.77 mg/L	1.31 NTU	152.8 mV	44.15 ft	100.00 ml/min
8/19/2024 4:51 PM	15:00	5.58 pH	25.13 °C	2,054.9 µS/cm	0.71 mg/L	0.89 NTU	148.8 mV	44.16 ft	100.00 ml/min
8/19/2024 4:56 PM	20:00	5.60 pH	24.40 °C	2,050.8 µS/cm	0.61 mg/L	1.51 NTU	161.4 mV	44.17 ft	100.00 ml/min
8/19/2024 5:01 PM	25:00	5.60 pH	24.36 °C	2,058.1 µS/cm	0.58 mg/L	0.89 NTU	160.2 mV	44.17 ft	100.00 ml/min
8/19/2024 5:06 PM	30:00	5.59 pH	24.50 °C	2,058.6 µS/cm	0.51 mg/L	0.61 NTU	158.1 mV	44.18 ft	100.00 ml/min
8/19/2024 5:11 PM	35:00	5.59 pH	24.48 °C	2,059.5 µS/cm	0.48 mg/L	0.51 NTU	157.0 mV	44.18 ft	100.00 ml/min
8/19/2024 5:16 PM	40:00	5.59 pH	24.09 °C	2,055.7 µS/cm	0.46 mg/L	0.56 NTU	154.9 mV	44.19 ft	100.00 ml/min
8/19/2024 5:21 PM	45:00	5.59 pH	24.32 °C	2,058.4 µS/cm	0.41 mg/L	1.02 NTU	154.4 mV	44.20 ft	100.00 ml/min

Samples

Sample ID:	Description:
AKR-AP1-EB-02	@1730 Sample Time: 1700; 6 bottles: Metals, Anions, TDS, Radium
ARK-AP1PZ-3	@1725 Sample Time: 1700; 6 bottles: Metals, Anions, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 8/19/2024 1:45:28 PM

Project: Arkwright

Operator Name: Dylan Quintal

Location Name: Arkwright, AP-1, AP1PZ-4 Latitude: 32.9188151770192 Longitude: -83.6975826323032 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 56.9 ft Total Depth: 67.4 ft Initial Depth to Water: 47.65 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 61.5 ft Estimated Total Volume Pumped: 2063.333 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.16 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1080302
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Test Notes:

ID: 102

Pressure: 35 psi

Weather Conditions:

Sunny, 88F

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	
8/19/2024 1:45 PM	00:00	6.34 pH	26.92 °C	2,326.7 µS/cm	1.55 mg/L	16.60 NTU	1.4 mV	48.51 ft	100.00 ml/min
8/19/2024 1:50 PM	05:00	6.32 pH	26.72 °C	2,337.8 µS/cm	1.30 mg/L	6.98 NTU	-6.0 mV	48.62 ft	100.00 ml/min
8/19/2024 1:56 PM	10:38	6.31 pH	26.50 °C	2,333.6 µS/cm	1.04 mg/L	4.79 NTU	-12.7 mV	48.73 ft	100.00 ml/min
8/19/2024 2:01 PM	15:38	6.30 pH	25.89 °C	2,335.0 µS/cm	0.96 mg/L	3.75 NTU	-15.4 mV	48.75 ft	100.00 ml/min
8/19/2024 2:06 PM	20:38	6.29 pH	26.22 °C	2,345.9 µS/cm	0.85 mg/L	2.73 NTU	-18.7 mV	48.81 ft	100.00 ml/min

Samples

Sample ID:	Description:
ARK-AP1PZ-4	6 bottles taken at 1410: Metals, Anions, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 8/19/2024 3:30:54 PM

Project: Arkwright

Operator Name: Dylan Quintal

Location Name: Arkwright, AP-1, AP1PZ-5 Latitude: 32.91767695474138 Longitude: -83.6973818459974 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 56.8 ft Total Depth: 67.3 ft Initial Depth to Water: 49.42 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 61.3 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.9 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1080302
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Test Notes:

ID: 101

Pressure: 35 psi

Weather Conditions:

Sunny, 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	+/- 0.3	
8/19/2024 3:30 PM	00:00	6.11 pH	29.19 °C	2,898.9 µS/cm	1.67 mg/L	15.30 NTU	13.8 mV	50.15 ft	100.00 ml/min
8/19/2024 3:35 PM	05:00	6.10 pH	27.69 °C	2,965.9 µS/cm	1.55 mg/L	13.10 NTU	9.2 mV	50.22 ft	100.00 ml/min
8/19/2024 3:40 PM	10:00	6.10 pH	27.27 °C	2,955.2 µS/cm	1.33 mg/L	9.33 NTU	-3.6 mV	50.26 ft	100.00 ml/min
8/19/2024 3:45 PM	15:00	6.09 pH	27.61 °C	2,965.7 µS/cm	1.27 mg/L	6.06 NTU	-7.5 mV	50.26 ft	100.00 ml/min
8/19/2024 3:50 PM	20:00	6.09 pH	27.36 °C	2,941.8 µS/cm	1.14 mg/L	4.20 NTU	0.6 mV	50.29 ft	100.00 ml/min
8/19/2024 3:55 PM	25:00	6.08 pH	27.19 °C	2,948.6 µS/cm	1.09 mg/L	3.21 NTU	-1.5 mV	50.31 ft	100.00 ml/min
8/19/2024 4:00 PM	30:00	6.08 pH	27.15 °C	2,934.1 µS/cm	1.02 mg/L	2.41 NTU	-3.3 mV	50.32 ft	100.00 ml/min

Samples

Sample ID:	Description:
ARK-AP1PZ-5	6 bottles at 1605: Metals, Anions, TDS, Radium

Low-Flow Test Report:

Test Date / Time: 8/19/2024 12:45:04 PM

Project: Arkwright

Operator Name: J.Myer

Location Name: AP1PZ-7 Latitude: 32.9174028763597 Longitude: -83.6975306645036 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 67.3 ft Total Depth: 77.8 ft Initial Depth to Water: 50.9 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 71.8 ft Estimated Total Volume Pumped: 6500 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 3.65 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1082817
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Test Notes:

MP-50 S/N: 22

ID: 45

PSI: 40

Turbidimeter S/N: 2306D000290

WL Meter S/N: T11DF2106090ML

Weather Conditions:

Sunny 86 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	
8/19/2024 12:45 PM	00:00	6.34 pH	29.32 °C	2,192.0 µS/cm	3.95 mg/L	23.20 NTU	60.8 mV	51.50 ft	100.00 ml/min
8/19/2024 12:50 PM	05:00	6.17 pH	24.44 °C	2,340.0 µS/cm	1.17 mg/L	20.40 NTU	-31.0 mV	52.05 ft	100.00 ml/min
8/19/2024 12:55 PM	10:00	6.23 pH	23.84 °C	2,328.6 µS/cm	0.92 mg/L	22.90 NTU	-30.5 mV	52.55 ft	100.00 ml/min
8/19/2024 1:00 PM	15:00	6.26 pH	23.88 °C	2,322.0 µS/cm	0.98 mg/L	20.20 NTU	-19.7 mV	52.90 ft	100.00 ml/min
8/19/2024 1:05 PM	20:00	6.27 pH	23.77 °C	2,324.4 µS/cm	1.08 mg/L	16.50 NTU	-14.8 mV	53.20 ft	100.00 ml/min
8/19/2024 1:10 PM	25:00	6.28 pH	23.56 °C	2,327.0 µS/cm	1.06 mg/L	11.70 NTU	-13.6 mV	53.50 ft	100.00 ml/min
8/19/2024 1:15 PM	30:00	6.28 pH	23.54 °C	2,323.6 µS/cm	1.02 mg/L	9.69 NTU	-14.1 mV	53.70 ft	100.00 ml/min
8/19/2024 1:20 PM	35:00	6.27 pH	23.61 °C	2,318.3 µS/cm	0.96 mg/L	8.70 NTU	-21.3 mV	53.90 ft	100.00 ml/min
8/19/2024 1:25 PM	40:00	6.27 pH	23.38 °C	2,303.7 µS/cm	0.91 mg/L	6.78 NTU	-24.6 mV	54.10 ft	100.00 ml/min
8/19/2024 1:30 PM	45:00	6.27 pH	23.28 °C	2,299.4 µS/cm	0.86 mg/L	5.75 NTU	-29.7 mV	54.20 ft	100.00 ml/min

8/19/2024 1:35 PM	50:00	6.27 pH	23.16 °C	2,311.4 µS/cm	0.82 mg/L	5.29 NTU	-31.9 mV	54.35 ft	100.00 ml/min
8/19/2024 1:40 PM	55:00	6.27 pH	23.29 °C	2,305.5 µS/cm	0.78 mg/L	4.34 NTU	-35.2 mV	54.45 ft	100.00 ml/min
8/19/2024 1:45 PM	01:00:00	6.27 pH	23.43 °C	2,295.0 µS/cm	0.75 mg/L	3.81 NTU	-80.6 mV	54.55 ft	100.00 ml/min
8/19/2024 1:50 PM	01:05:00	6.26 pH	23.49 °C	2,281.2 µS/cm	0.72 mg/L	3.71 NTU	-49.1 mV	54.55 ft	100.00 ml/min

Samples

Sample ID:	Description:
ARK-AP1PZ-7	6 bottles filled at 13:55 3 Ra-226/Ra-228 1 TDS 1 Anions 1 Metals
ARK-AP1-FB-02	6 bottles filled at 1410 3 Ra-226/Ra-228 1 TDS 1 Anions 1 Metals

Low-Flow Test Report:

Test Date / Time: 8/19/2024 2:26:17 PM

Project: Arkwright

Operator Name: Z Levy

Location Name: AP1PZ-8 Latitude: 32.91808786722509 Longitude: -83.69813443387478 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 55.6 ft Total Depth: 66.1 ft Initial Depth to Water: 47.25 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 59 ft Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 4.56 ft	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

CPM:4

ID: 102

PSI: 40

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	
8/19/2024 2:26 PM	00:00	6.62 pH	26.16 °C	1,556.9 µS/cm	0.88 mg/L	7.57 NTU	18.9 mV	49.91 ft	250.00 ml/min
8/19/2024 2:31 PM	05:00	6.64 pH	23.71 °C	1,640.5 µS/cm	1.32 mg/L	4.19 NTU	-14.4 mV	50.43 ft	250.00 ml/min
8/19/2024 2:36 PM	10:00	6.66 pH	23.64 °C	1,636.2 µS/cm	1.36 mg/L	2.50 NTU	-13.4 mV	51.00 ft	250.00 ml/min
8/19/2024 2:41 PM	15:00	6.75 pH	23.37 °C	1,631.1 µS/cm	1.16 mg/L	1.42 NTU	-17.5 mV	51.14 ft	250.00 ml/min
8/19/2024 2:46 PM	20:00	6.75 pH	23.27 °C	1,636.5 µS/cm	0.96 mg/L	1.15 NTU	-20.6 mV	51.28 ft	250.00 ml/min
8/19/2024 2:51 PM	25:00	6.74 pH	23.31 °C	1,639.8 µS/cm	0.78 mg/L	0.80 NTU	-22.5 mV	51.43 ft	250.00 ml/min
8/19/2024 2:56 PM	30:00	6.74 pH	23.25 °C	1,642.2 µS/cm	0.63 mg/L	0.67 NTU	-23.0 mV	51.57 ft	250.00 ml/min
8/19/2024 3:01 PM	35:00	6.73 pH	22.87 °C	1,652.8 µS/cm	0.53 mg/L	0.55 NTU	-23.1 mV	51.70 ft	250.00 ml/min
8/19/2024 3:06 PM	40:00	6.72 pH	23.20 °C	1,652.0 µS/cm	0.46 mg/L	0.46 NTU	-22.9 mV	51.81 ft	250.00 ml/min

Samples

Sample ID:	Description:
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ARK-AP1PZ-8

@ 1510
6 bottles
Metals
Radium
TDS
Anions

Low-Flow Test Report:

Test Date / Time: 8/19/2024 3:12:10 PM

Project: Arkwright

Operator Name: J.Myer

Location Name: AP1PZ-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 46.3 ft Total Depth: 57.4 ft Initial Depth to Water: 42.3 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 50.1 ft Estimated Total Volume Pumped: 4000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 5.2 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1082817
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Test Notes:

Well purged dry. Will sample the following day.

MP-50 S/N: 22

ID: 103

PSI: 30

Turbidimeter S/N: 23060D000290

WL S/N: T11DF2106090ML

Weather Conditions:

Sunny 90 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	
8/19/2024 3:12 PM	00:00	5.37 pH	34.36 °C	567.43 µS/cm	3.16 mg/L	18.80 NTU	202.9 mV	42.95 ft	100.00 ml/min
8/19/2024 3:17 PM	05:00	4.76 pH	24.24 °C	622.41 µS/cm	1.43 mg/L	14.70 NTU	214.9 mV	43.65 ft	100.00 ml/min
8/19/2024 3:22 PM	10:00	4.47 pH	23.43 °C	626.79 µS/cm	2.76 mg/L	9.59 NTU	246.4 mV	44.35 ft	100.00 ml/min
8/19/2024 3:27 PM	15:00	4.41 pH	23.25 °C	628.97 µS/cm	3.24 mg/L	6.18 NTU	250.7 mV	44.95 ft	100.00 ml/min
8/19/2024 3:32 PM	20:00	4.39 pH	22.98 °C	628.04 µS/cm	3.48 mg/L	4.37 NTU	247.3 mV	45.65 ft	100.00 ml/min
8/19/2024 3:37 PM	25:00	4.39 pH	22.98 °C	630.48 µS/cm	3.78 mg/L	3.81 NTU	246.2 mV	46.25 ft	100.00 ml/min
8/19/2024 3:42 PM	30:00	4.41 pH	23.29 °C	629.41 µS/cm	4.00 mg/L	3.77 NTU	243.8 mV	46.85 ft	100.00 ml/min
8/19/2024 3:47 PM	35:00	4.43 pH	23.22 °C	627.68 µS/cm	4.21 mg/L	4.15 NTU	240.6 mV	47.50 ft	100.00 ml/min
8/19/2024 3:52 PM	40:00	4.48 pH	23.24 °C	629.92 µS/cm	4.14 mg/L	5.11 NTU	251.3 mV	47.50 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/20/2024 9:26:24 AM

Project: Arkwright

Operator Name: J.Myer

Location Name: AP1PZ-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 46.3 ft Total Depth: 57.4 ft Initial Depth to Water: 42.3 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 50.1 ft Estimated Total Volume Pumped: 0 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.7 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1082817
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Test Notes:

Collecting sample after purging dry the previous day

MP-50 S/N: 22

ID: 103

PSI: 30

Turbidimeter S/N: 22990D000345

WL S/N: T11DF2106090ML

Weather Conditions:

Sunny 75 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 9:26 AM	00:00	5.52 pH	25.98 °C	680.17 µS/cm	4.61 mg/L	3.06 NTU	134.5 mV	43.00 ft	100.00 ml/min

Samples

Sample ID:	Description:
ARK-AP1PZ-9	6 bottles filled at 0930 1 Metals 1 TDS 1 Anions 3 Ra-226/Ra-228

Low-Flow Test Report:

Test Date / Time: 8/19/2024 4:57:52 PM

Project: Arkwright

Operator Name: J.Myer

Location Name: AP1PZ-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 46 ft Total Depth: 56.5 ft Initial Depth to Water: 40.2 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 50.5 ft Estimated Total Volume Pumped: 3000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 3.9 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1082817
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Test Notes:

MP-50 S/N: 22

ID: 103

PSI: 30

Turbidimeter S/N: 23060D000290

WL S/N: T11DF2106090ML

Weather Conditions:

Sunny 90 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	
8/19/2024 4:57 PM	00:00	6.28 pH	33.80 °C	562.29 µS/cm	5.47 mg/L	1.62 NTU	81.4 mV	40.80 ft	100.00 ml/min
8/19/2024 5:02 PM	05:00	6.32 pH	21.90 °C	627.39 µS/cm	0.52 mg/L	13.80 NTU	-137.1 mV	41.90 ft	100.00 ml/min
8/19/2024 5:07 PM	10:00	6.32 pH	22.05 °C	639.47 µS/cm	0.24 mg/L	4.49 NTU	-173.3 mV	42.55 ft	100.00 ml/min
8/19/2024 5:12 PM	15:00	6.38 pH	21.75 °C	683.75 µS/cm	0.20 mg/L	4.27 NTU	-118.3 mV	43.10 ft	100.00 ml/min
8/19/2024 5:17 PM	20:00	6.40 pH	21.55 °C	727.83 µS/cm	0.17 mg/L	2.39 NTU	-108.0 mV	43.40 ft	100.00 ml/min
8/19/2024 5:22 PM	25:00	6.38 pH	21.41 °C	721.43 µS/cm	0.17 mg/L	2.57 NTU	-100.5 mV	43.80 ft	100.00 ml/min
8/19/2024 5:27 PM	30:00	6.37 pH	21.37 °C	717.70 µS/cm	0.17 mg/L	2.80 NTU	-147.4 mV	44.10 ft	100.00 ml/min

Samples

Sample ID:	Description:
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ARK-AP1PZ-10

6 bottles filled at 1730

3 Ra-226/Ra-228

1 TDS

1 Anions

1 Metals

Low-Flow Test Report:

Test Date / Time: 8/19/2024 12:55:56 PM

Project: Arkwright

Operator Name: Z Levy

Location Name: AP1PZ-11 Latitude: 32.920572962642574 Longitude: -83.69909590117977 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 62.8 ft Total Depth: 73.3 ft Initial Depth to Water: 40.18 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 67.9 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.42 ft	Instrument Used: Aqua TROLL 400 Serial Number: 989619
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Test Notes:

CPM:4

ID: 106

PSI: 40

Weather Conditions:

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	+/- 0.33	
8/19/2024 12:55 PM	00:00	6.64 pH	24.46 °C	278.73 µS/cm	2.65 mg/L	4.24 NTU	136.4 mV	40.68 ft	300.00 ml/min
8/19/2024 1:00 PM	05:00	6.83 pH	22.61 °C	283.25 µS/cm	2.57 mg/L	2.36 NTU	112.9 mV	40.71 ft	300.00 ml/min
8/19/2024 1:05 PM	10:00	6.79 pH	22.38 °C	282.91 µS/cm	2.57 mg/L	1.17 NTU	81.1 mV	40.75 ft	300.00 ml/min
8/19/2024 1:10 PM	15:00	6.80 pH	22.16 °C	278.69 µS/cm	2.58 mg/L	0.77 NTU	77.8 mV	40.76 ft	300.00 ml/min
8/19/2024 1:15 PM	20:00	6.80 pH	23.32 °C	292.58 µS/cm	2.70 mg/L	1.02 NTU	77.4 mV	40.60 ft	300.00 ml/min

Samples

Sample ID:	Description:
ARK-AP1PZ-11	@ 1320 6 bottles Metals Anions TDS Radium

ARK-AP1-FD-02

6 bottles
Metals
Anions
TDS
radium

Groundwater Level Measurement Form

Project Name: <u>Southern Company Arkwright</u>	Page <u>1</u> of <u>1</u>
Plant Name: <u>Plant Arkwright</u>	Date: <u>8/19/2024</u>
Plant Address: <u>5001 Arkwright Road, Macon, GA 31210</u>	Field Staff Names: <u>John Myer; Dylan Quintal; Zach Levy; Jackson Bankston</u>
Project Number: <u>175569434</u>	Goal/Task: <u>Groundwater Investigation</u>
Gauging Start Time: <u>8:30</u>	Gauging Finish Time: <u>15:20</u>

Well ID	Time	Depth to Groundwater (ft, BTOC)	Current Depth to Bottom (ft, BTOC)	Notes/Remarks
AP-1				
AP1GWA-1	8:42	26.40	28.55	
AP1GWA-2	8:47	18.57	22.01	
AP1PZ-1	8:50	45.61	78.47	
AP1PZ-2	8:54	43.02	53.33	
AP1PZ-3	8:59	41.26	58.10	
AP1PZ-4	9:05	47.81	58.21	
AP1PZ-5	9:12	49.44	57.98	
AP1PZ-7	9:16	50.92	68.55	
AP1PZ-8	9:23	47.34	56.80	
AP1PZ-9	9:28	42.29	46.82	
AP1PZ-10	9:32	40.19	47.25	
AP1PZ-11	9:35	40.19	63.75	

Sampler Signatures: 

Plant Arkwright AP-1 Surface Water Samples August 12-13, 2024

Sample ID*	Date	Time	Temp(°C)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Conductance (mS/cm)	Coordinates
ARK-BC-0.3	8/12/2024	1004	24.2	7.47	158.4	7.79	1.63	0.156	32.918089,-83.698692
ARC-BC-0.1	8/12/2024	1020	25.1	7.57	169.4	8.58	2.43	0.169	32.916017,-83.696292
ARC-OR-0.8	8/13/2024	0903	28.7	7.91	48.2	7.46	4.06	0.117	32.926994,-83.697536
ARC-OR-0.1	8/13/2024	1038	29.7	7.81	87.8	7.57	2.40	0.116	32.916342,-83.696092
ARC-OR-0.3	8/13/2024	1000	29.1	7.86	71.7	7.60	3.42	0.117	32.919226,-83.697100
ARC-OR+0.25	8/13/2024	1100	30.1	7.38	95.1	7.72	2.49	0.118	32.914186,-83.691789

*OR samples collected with aerial drone utilizing a bailer

Low-Flow Test Report:

Test Date / Time: 2/3/2025 1:18:51 PM

Project: Arkwright

Operator Name: J. Bankston

Location Name: AP1GWA-1 Latitude: 32.93263554486217 Longitude: -83.70276057077348 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 26.84 ft Total Depth: 37.5 ft Initial Depth to Water: 26.19 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 25.3 ft Estimated Total Volume Pumped: 11910 ml Flow Cell Volume: 90 ml Final Flow Rate: 360 ml/min Final Draw Down: 0.17 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1082817
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Test Notes:

MP50 SN: 35

ID: 103

PSI: 30

Herron Dipper-T SN: 24072

Turbidimeter SN: 23100D000373

Weather Conditions:

Sunny 20°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	
2/3/2025 1:18 PM	00:00	5.36 pH	20.66 °C	196.12 µS/cm	2.39 mg/L	1.81 NTU	174.6 mV	26.36 ft	360.00 ml/min
2/3/2025 1:23 PM	05:00	5.36 pH	20.68 °C	193.80 µS/cm	2.32 mg/L	0.94 NTU	103.9 mV	26.36 ft	360.00 ml/min
2/3/2025 1:28 PM	10:00	5.36 pH	20.67 °C	194.73 µS/cm	2.32 mg/L	0.75 NTU	85.6 mV	26.36 ft	360.00 ml/min
2/3/2025 1:31 PM	13:05	5.37 pH	20.68 °C	193.66 µS/cm	2.31 mg/L	0.47 NTU	107.3 mV	26.36 ft	360.00 ml/min
2/3/2025 1:36 PM	18:05	5.37 pH	20.69 °C	193.79 µS/cm	2.31 mg/L	0.60 NTU	81.3 mV	26.36 ft	360.00 ml/min
2/3/2025 1:41 PM	23:05	5.38 pH	20.71 °C	193.69 µS/cm	2.31 mg/L	0.71 NTU	79.3 mV	26.36 ft	360.00 ml/min
2/3/2025 1:46 PM	28:05	5.38 pH	20.72 °C	193.24 µS/cm	2.29 mg/L	0.44 NTU	78.3 mV	26.36 ft	360.00 ml/min
2/3/2025 1:51 PM	33:05	5.37 pH	20.76 °C	193.29 µS/cm	2.28 mg/L	0.29 NTU	79.5 mV	26.36 ft	360.00 ml/min

Samples

Sample ID:	Description:
ARK-AP1GWA-1	Time 1400 6 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
ARK-AP1-FD-01	6 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

Low-Flow Test Report:

Test Date / Time: 2/3/2025 1:38:57 PM

Project: Arkwright

Operator Name: Devon Abuan

Location Name: AP1GWA-2 Latitude: 32.92735519455333 Longitude: -83.70051010560312 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 20.52 ft Total Depth: 31.1 ft Initial Depth to Water: 18.78 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 25.3 ft Estimated Total Volume Pumped: 8000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.1 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1080297
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Test Notes:

Aqua Troll 400

1080307

HACH

23060D000334

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	
2/3/2025 1:38 PM	00:00	6.34 pH	24.64 °C	75.15 µS/cm	3.87 mg/L		134.6 mV	18.88 ft	400.00 ml/min
2/3/2025 1:43 PM	05:00	6.09 pH	21.32 °C	79.06 µS/cm	3.96 mg/L	8.02 NTU	85.2 mV	18.78 ft	400.00 ml/min
2/3/2025 1:48 PM	10:00	6.05 pH	21.22 °C	79.95 µS/cm	3.83 mg/L	6.76 NTU	68.6 mV	18.88 ft	400.00 ml/min
2/3/2025 1:53 PM	15:00	6.02 pH	21.21 °C	80.95 µS/cm	3.73 mg/L	4.42 NTU	80.2 mV	18.85 ft	400.00 ml/min
2/3/2025 1:58 PM	20:00	6.02 pH	21.23 °C	81.79 µS/cm	3.63 mg/L	2.93 NTU	54.9 mV	18.78 ft	400.00 ml/min

Samples

Sample ID:	Description:
ARK-AP1GWA-2	Time 1405 6 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

Low-Flow Test Report:

Test Date / Time: 2/3/2025 4:29:15 PM

Project: Arkwright

Operator Name: J. Bankston

Location Name: AP1PZ-1 Latitude: 32.921035574357795 Longitude: -83.69879087537022 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 77 ft Total Depth: 87.6 ft Initial Depth to Water: 44.7 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 82.6 ft Estimated Total Volume Pumped: 2500 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.99 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1082817
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Test Notes:

MP50

ID:97

PSI:60

Turbidimeter SN: 23100D000373

Heron Dipper T SN: 24072

Weather Conditions:

Sunny 21°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	
2/3/2025 4:29 PM	00:00	6.40 pH	19.82 °C	369.85 µS/cm	0.54 mg/L	6.90 NTU	-108.9 mV	45.94 ft	100.00 ml/min
2/3/2025 4:34 PM	05:00	6.45 pH	19.92 °C	368.85 µS/cm	0.66 mg/L	4.86 NTU	-174.7 mV	46.09 ft	100.00 ml/min
2/3/2025 4:39 PM	10:00	6.44 pH	19.72 °C	368.62 µS/cm	0.52 mg/L	4.39 NTU	-123.8 mV	46.34 ft	100.00 ml/min
2/3/2025 4:44 PM	15:00	6.44 pH	19.74 °C	369.05 µS/cm	0.44 mg/L	3.47 NTU	-124.7 mV	46.52 ft	100.00 ml/min
2/3/2025 4:49 PM	20:00	6.44 pH	19.68 °C	369.10 µS/cm	0.40 mg/L	3.37 NTU	-123.3 mV	46.60 ft	100.00 ml/min
2/3/2025 4:54 PM	25:00	6.44 pH	19.73 °C	369.76 µS/cm	0.40 mg/L	2.45 NTU	-122.2 mV	46.69 ft	100.00 ml/min

Samples

Sample ID:	Description:
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ARK-AP1PZ-1

Time 1700

6 bottle sets:

3 x 1,000 mL (unpreserved) - 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: 2/3/2025 3:00:44 PM

Project: Arkwright

Operator Name: J. Ashe

Location Name: AP1PZ-2 Latitude: 32.917110444962404 Longitude: -83.69954870266017 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 52.1 ft Total Depth: 62.67 ft Initial Depth to Water: 42.94 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 56.57 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.29 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1080297
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Test Notes:

Hach SN: 23080D00159 Aqua Troll 400 SN: 1080297

Weather Conditions:

21°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	
2/3/2025 3:00 PM	00:00	6.02 pH	27.27 °C	1,047.9 µS/cm	3.81 mg/L		106.8 mV	42.94 ft	100.00 ml/min
2/3/2025 3:05 PM	05:00	6.14 pH	22.30 °C	1,053.8 µS/cm	1.39 mg/L	20.10 NTU	97.9 mV	43.18 ft	100.00 ml/min
2/3/2025 3:10 PM	10:00	6.15 pH	21.99 °C	1,056.1 µS/cm	1.16 mg/L	21.40 NTU	67.5 mV	43.18 ft	100.00 ml/min
2/3/2025 3:15 PM	15:00	6.16 pH	21.80 °C	1,046.8 µS/cm	0.89 mg/L	16.00 NTU	62.2 mV	43.18 ft	100.00 ml/min
2/3/2025 3:20 PM	20:00	6.17 pH	21.68 °C	1,041.4 µS/cm	0.70 mg/L	15.80 NTU	59.6 mV	43.18 ft	100.00 ml/min
2/3/2025 3:25 PM	25:00	6.17 pH	21.23 °C	1,049.3 µS/cm	0.60 mg/L	12.80 NTU	56.2 mV	43.18 ft	100.00 ml/min
2/3/2025 3:30 PM	30:00	6.17 pH	21.16 °C	1,051.5 µS/cm	0.56 mg/L	13.90 NTU	54.0 mV	43.18 ft	100.00 ml/min
2/3/2025 3:35 PM	35:00	6.16 pH	21.06 °C	1,059.5 µS/cm	0.49 mg/L	11.40 NTU	49.9 mV	43.23 ft	100.00 ml/min
2/3/2025 3:40 PM	40:00	6.15 pH	20.99 °C	1,076.9 µS/cm	0.42 mg/L	8.47 NTU	45.3 mV	43.23 ft	100.00 ml/min
2/3/2025 3:45 PM	45:00	6.14 pH	20.95 °C	1,090.2 µS/cm	0.38 mg/L	8.60 NTU	44.9 mV	43.23 ft	100.00 ml/min
2/3/2025 3:50 PM	50:00	6.14 pH	20.88 °C	1,097.8 µS/cm	0.33 mg/L	7.65 NTU	46.1 mV	43.23 ft	100.00 ml/min
2/3/2025 3:55 PM	55:00	6.13 pH	21.04 °C	1,105.0 µS/cm	0.29 mg/L	5.25 NTU	47.1 mV	43.23 ft	100.00 ml/min
2/3/2025 4:00 PM	01:00:00	6.13 pH	21.02 °C	1,113.2 µS/cm	0.29 mg/L	4.45 NTU	48.3 mV	43.23 ft	100.00 ml/min

Samples

Sample ID:	Description:
ARK-AP1PZ-2	Collected @ 1605 6 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

Low-Flow Test Report:

Test Date / Time: 2/4/2025 9:06:22 AM

Project: Arkwright

Operator Name: Jackson Bankston

Location Name: AP1PZ-3 Latitude: 32.91712539550045 Longitude: -83.69955146228821 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 56.9 ft Total Depth: 67.4 ft Initial Depth to Water: 43.75 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 61.4 ft Estimated Total Volume Pumped: 3288.333 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.29 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1082817
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Test Notes:

MP50 SN:35

ID:96

PSI:60

Heron Dipper-T SN: 24072

Turbidimeter SN: 23100D000373

Weather Conditions:

Sunny 14°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 9:06 AM	00:00	5.58 pH	17.57 °C	2,331.3 µS/cm	0.73 mg/L	11.10 NTU	158.2 mV	44.00 ft	100.00 ml/min
2/4/2025 9:11 AM	05:00	5.59 pH	17.66 °C	2,313.3 µS/cm	0.32 mg/L	8.38 NTU	173.0 mV	44.00 ft	100.00 ml/min
2/4/2025 9:16 AM	10:00	5.59 pH	17.70 °C	2,315.7 µS/cm	0.26 mg/L	7.20 NTU	139.4 mV	44.02 ft	100.00 ml/min
2/4/2025 9:21 AM	15:00	5.59 pH	17.86 °C	2,318.1 µS/cm	0.22 mg/L	6.04 NTU	132.1 mV	44.04 ft	100.00 ml/min
2/4/2025 9:24 AM	17:53	5.59 pH	17.90 °C	2,330.4 µS/cm	0.20 mg/L	5.11 NTU	136.3 mV	44.04 ft	100.00 ml/min
2/4/2025 9:29 AM	22:53	5.59 pH	18.01 °C	2,316.9 µS/cm	0.19 mg/L	3.92 NTU	124.6 mV	44.04 ft	100.00 ml/min
2/4/2025 9:34 AM	27:53	5.59 pH	18.12 °C	2,308.3 µS/cm	0.19 mg/L	3.14 NTU	138.0 mV	44.04 ft	100.00 ml/min
2/4/2025 9:39 AM	32:53	5.59 pH	18.21 °C	2,317.5 µS/cm	0.21 mg/L	2.87 NTU	117.2 mV	44.04 ft	100.00 ml/min

Samples

Sample ID:	Description:
<p>ARK-AP1PZ-3</p>	<p>Time: 0940 6 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</p>
<p>ARK-AP1-EB-02</p>	<p>Time: 1000 6 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</p>

Low-Flow Test Report:

Test Date / Time: 2/3/2025 5:12:04 PM

Project: Arkwright

Operator Name: J. Ashe

Location Name: AP1PZ-4 Latitude: 32.91883051948204 Longitude: -83.69761671414486 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 56.92 ft Total Depth: 67.42 ft Initial Depth to Water: 46.81 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 61.47 ft Estimated Total Volume Pumped: 4000 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.52 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1080297
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Test Notes:

Initial turbidity Reading not collected.

Hach SN: 23080D00159 Aqua Troll 400 SN: 1080297

Weather Conditions:

Sunny, 20°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	
2/3/2025 5:12 PM	00:00	6.23 pH	21.73 °C	2,409.5 µS/cm	2.77 mg/L		-1.1 mV	46.81 ft	100.00 ml/min
2/3/2025 5:17 PM	05:00	6.23 pH	20.11 °C	2,455.4 µS/cm	1.80 mg/L	10.70 NTU	-9.0 mV	47.86 ft	100.00 ml/min
2/3/2025 5:22 PM	10:00	6.22 pH	19.81 °C	2,464.0 µS/cm	1.33 mg/L	7.11 NTU	-20.6 mV	48.04 ft	100.00 ml/min
2/3/2025 5:27 PM	15:00	6.21 pH	19.72 °C	2,454.4 µS/cm	1.40 mg/L	4.94 NTU	-20.9 mV	48.16 ft	100.00 ml/min
2/3/2025 5:32 PM	20:00	6.21 pH	19.58 °C	2,452.2 µS/cm	1.65 mg/L	3.92 NTU	-21.4 mV	48.24 ft	100.00 ml/min
2/3/2025 5:37 PM	25:00	6.20 pH	19.49 °C	2,448.5 µS/cm	1.79 mg/L	2.83 NTU	-21.1 mV	48.28 ft	100.00 ml/min
2/3/2025 5:42 PM	30:00	6.19 pH	19.42 °C	2,454.3 µS/cm	1.99 mg/L	1.99 NTU	-20.5 mV	48.33 ft	100.00 ml/min
2/3/2025 5:47 PM	35:00	6.18 pH	19.43 °C	2,431.4 µS/cm	0.55 mg/L	1.48 NTU	-21.4 mV	48.33 ft	100.00 ml/min
2/3/2025 5:52 PM	40:00	6.18 pH	19.36 °C	2,428.5 µS/cm	0.38 mg/L	1.31 NTU	-9.2 mV	48.33 ft	100.00 ml/min

Samples

Sample ID:	Description:
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ARK-AP1PZ-4	6 bottle sets collected @ 1800: 3 x 1,000 mL (HNO ₃) - Radium 226/228 1 x 500 mL (unpreserved) - TDS 1 x 250 mL (unpreserved) - Anions 1 x 250 mL (HNO ₃) - Metals
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Low-Flow Test Report:

Test Date / Time: 2/3/2025 3:13:23 PM

Project: Arkwright

Operator Name: Devon Abuan

<p>Location Name: AP1PZ-5 Latitude: 32.91792423943109 Longitude: -83.69733520536633 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 56.8 ft Total Depth: 66.3 ft Initial Depth to Water: 49.73 ft</p>	<p>Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 61.3 m Estimated Total Volume Pumped: 3274 ml Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 0.61 ft</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 1080307</p>
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Test Notes:

Aqua Troll 400 1080307
 HACH 23060D000334
 Missing Turbidity readings due Aqua Troll disconnecting.

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	
2/3/2025 3:13 PM	00:00	6.02 pH	22.60 °C	3,035.5 µS/cm	0.82 mg/L		-74.7 mV	49.73 ft	120.00 ml/min
2/3/2025 3:14 PM	01:02	6.03 pH	21.60 °C	3,073.4 µS/cm	0.76 mg/L		-79.3 mV	49.73 ft	120.00 ml/min
2/3/2025 3:19 PM	06:02	6.05 pH	20.33 °C	3,112.0 µS/cm	0.64 mg/L	5.79 NTU	-128.1 mV	50.20 ft	120.00 ml/min
2/3/2025 3:20 PM	07:17	6.05 pH	20.23 °C	3,112.9 µS/cm	0.62 mg/L		-90.8 mV	50.20 ft	120.00 ml/min
2/3/2025 3:25 PM	12:17	6.06 pH	20.12 °C	3,116.0 µS/cm	0.50 mg/L	4.43 NTU	-128.9 mV	50.23 ft	120.00 ml/min
2/3/2025 3:30 PM	17:17	6.05 pH	20.03 °C	3,111.0 µS/cm	0.53 mg/L	1.78 NTU	-85.3 mV	50.33 ft	120.00 ml/min
2/3/2025 3:35 PM	22:17	6.05 pH	20.07 °C	3,107.8 µS/cm	0.49 mg/L	1.89 NTU	-83.8 mV	50.35 ft	120.00 ml/min
2/3/2025 3:40 PM	27:17	6.05 pH	20.08 °C	3,105.3 µS/cm	0.44 mg/L	1.01 NTU	-83.2 mV	50.34 ft	120.00 ml/min

Samples

Sample ID:	Description:
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ARK-AP1PZ-5	Time 1545 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
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Low-Flow Test Report:

Test Date / Time: 2/3/2025 4:47:23 PM

Project: Arkwright

Operator Name: Devon Abuan

Location Name: AP1PZ-7 Latitude: 32.916449740465396 Longitude: -83.69921204458802 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 56.8 ft Total Depth: 67.3 ft Initial Depth to Water: 50.11 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 61.3 ft Estimated Total Volume Pumped: 3500 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 4.21 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1080307
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Test Notes:

Aqua Troll 400

1080307

HACH

23060D000334

MP 50 Setting 104, 45PSI

Weather Conditions:

21 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	
2/3/2025 4:47 PM	00:00	6.20 pH	22.39 °C	2,390.1 µS/cm	1.32 mg/L	16.30 NTU	-58.4 mV	50.94 ft	100.00 ml/min
2/3/2025 4:52 PM	05:00	6.20 pH	20.13 °C	2,457.2 µS/cm	0.54 mg/L	18.50 NTU	-57.7 mV	51.97 ft	100.00 ml/min
2/3/2025 4:57 PM	10:00	6.22 pH	19.97 °C	2,453.0 µS/cm	0.52 mg/L	11.80 NTU	-49.2 mV	52.58 ft	100.00 ml/min
2/3/2025 5:02 PM	15:00	6.23 pH	19.73 °C	2,442.1 µS/cm	0.74 mg/L	7.31 NTU	-47.6 mV	53.18 ft	100.00 ml/min
2/3/2025 5:07 PM	20:00	6.25 pH	19.49 °C	2,429.3 µS/cm	1.00 mg/L	6.25 NTU	-48.6 mV	53.34 ft	100.00 ml/min
2/3/2025 5:12 PM	25:00	6.27 pH	19.22 °C	2,421.4 µS/cm	1.11 mg/L	3.93 NTU	-51.5 mV	53.69 ft	100.00 ml/min
2/3/2025 5:17 PM	30:00	6.27 pH	19.13 °C	2,402.7 µS/cm	1.12 mg/L	3.60 NTU	-54.8 mV	53.94 ft	100.00 ml/min
2/3/2025 5:22 PM	35:00	6.27 pH	19.08 °C	2,392.0 µS/cm	1.07 mg/L	2.62 NTU	-55.5 mV	54.32 ft	100.00 ml/min

Samples

Sample ID:	Description:
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ARK-AP1PZ-7	TIME 1725 6 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
ARK-AP-1-FB-02	Time: 1653 6 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

Low-Flow Test Report:

Test Date / Time: 2/4/2025 9:07:24 AM

Project: Arkwright

Operator Name: J. Ashe

Location Name: AP1PZ-8 Latitude: 32.91805873097533 Longitude: -83.69812478183923 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 55.59 ft Total Depth: 66.09 ft Initial Depth to Water: 46.73 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 59.03 ft Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 4.29 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1080297
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Test Notes:

Hach SN: 23080D00159 Aqua Troll 400 SN: 1080297

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	
2/4/2025 9:07 AM	00:00	6.61 pH	17.22 °C	1,661.4 µS/cm	2.06 mg/L	14.30 NTU	46.8 mV	46.73 ft	200.00 ml/min
2/4/2025 9:12 AM	05:00	6.59 pH	18.03 °C	1,641.0 µS/cm	1.46 mg/L	8.97 NTU	43.3 mV	48.97 ft	200.00 ml/min
2/4/2025 9:17 AM	10:00	6.58 pH	18.13 °C	1,644.1 µS/cm	1.44 mg/L	4.55 NTU	27.5 mV	49.56 ft	200.00 ml/min
2/4/2025 9:22 AM	15:00	6.58 pH	18.24 °C	1,645.6 µS/cm	1.36 mg/L	2.36 NTU	20.5 mV	49.98 ft	200.00 ml/min
2/4/2025 9:27 AM	20:00	6.58 pH	18.38 °C	1,651.2 µS/cm	1.22 mg/L	1.25 NTU	15.3 mV	50.33 ft	200.00 ml/min
2/4/2025 9:32 AM	25:00	6.58 pH	18.71 °C	1,650.9 µS/cm	1.05 mg/L	0.83 NTU	11.6 mV	50.52 ft	200.00 ml/min
2/4/2025 9:37 AM	30:00	6.58 pH	18.86 °C	1,654.4 µS/cm	0.89 mg/L	0.78 NTU	8.4 mV	50.69 ft	200.00 ml/min
2/4/2025 9:42 AM	35:00	6.58 pH	18.96 °C	1,660.9 µS/cm	0.77 mg/L	0.73 NTU	6.1 mV	50.82 ft	200.00 ml/min
2/4/2025 9:47 AM	40:00	6.58 pH	19.05 °C	1,660.5 µS/cm	0.63 mg/L	0.36 NTU	4.6 mV	50.91 ft	200.00 ml/min
2/4/2025 9:52 AM	45:00	6.58 pH	19.18 °C	1,656.3 µS/cm	0.55 mg/L	0.29 NTU	3.8 mV	50.98 ft	200.00 ml/min
2/4/2025 9:57 AM	50:00	6.58 pH	19.27 °C	1,662.6 µS/cm	0.48 mg/L	0.22 NTU	3.1 mV	51.02 ft	200.00 ml/min

Samples

Sample ID:	Description:
ARK-AP1PZ-8	6 bottle sets collected @ 1000: 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
ARK-AP1-FD-02	6 bottle sets collected @ 1000: 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
ARK-AP1-FB-01	6 bottle sets collected @ 1040: 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: 2/3/2025 3:07:37 PM

Project: Arkwright

Operator Name: J. Bankston

Location Name: AP1PZ-9 Latitude: 32.91903772874117 Longitude: -83.69871317995513 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 46.3 ft Total Depth: 57.4 ft Initial Depth to Water: 42.2 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 50.1 ft Estimated Total Volume Pumped: 117996.664 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1082817
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Test Notes:

MP50 SN:35

ID: 103

PSI:35

Turbidimeter SN: 23100D000373

Heron Dipper-T 24072

Well pumped dry at 1555 on 2/3/25. Sampled at 1050 on

2/4/25. Turbidity reading taken prior to sampling

measured as 4.09 NTU.

Weather Conditions:

Sunny 21°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	
2/3/2025 3:07 PM	00:00	4.58 pH	21.03 °C	671.50 µS/cm	5.49 mg/L	2.14 NTU	218.5 mV	42.97 ft	100.00 ml/min
2/3/2025 3:12 PM	05:00	4.55 pH	20.07 °C	681.51 µS/cm	3.26 mg/L	3.41 NTU	214.0 mV	43.79 ft	100.00 ml/min
2/3/2025 3:17 PM	10:00	4.27 pH	20.11 °C	690.76 µS/cm	3.92 mg/L	2.30 NTU	231.5 mV	44.50 ft	100.00 ml/min
2/3/2025 3:22 PM	15:00	4.21 pH	19.95 °C	691.51 µS/cm	4.56 mg/L	2.33 NTU	239.7 mV	45.01 ft	100.00 ml/min
2/3/2025 3:27 PM	20:00	4.19 pH	20.08 °C	680.95 µS/cm	4.43 mg/L	1.69 NTU	246.0 mV	45.67 ft	100.00 ml/min
2/3/2025 3:32 PM	25:00	4.19 pH	20.08 °C	691.83 µS/cm	5.44 mg/L	1.39 NTU	225.0 mV	46.11 ft	100.00 ml/min
2/3/2025 3:37 PM	30:00	4.21 pH	19.95 °C	689.77 µS/cm	4.33 mg/L	1.22 NTU	243.3 mV	46.63 ft	100.00 ml/min
2/3/2025 3:42 PM	35:00	4.23 pH	20.02 °C	691.14 µS/cm	4.62 mg/L	1.14 NTU	223.6 mV	46.75 ft	100.00 ml/min
2/3/2025 3:47 PM	40:00	4.25 pH	19.95 °C	691.22 µS/cm	4.92 mg/L	1.24 NTU	239.0 mV	46.75 ft	100.00 ml/min
2/3/2025 3:52 PM	45:00	4.37 pH	19.89 °C	689.34 µS/cm	4.16 mg/L	2.90 NTU	216.0 mV	46.75 ft	100.00 ml/min

Samples

Sample ID:	Description:
ARK-AP1PZ-9	2/4/25 1050 6 bottle sets: 3 x 1,000 mL (HNO ₃) - Radium 226/228 1 x 500 mL (unpreserved) - TDS 1 x 250 mL (unpreserved) - Anions 1 x 250 mL (HNO ₃) - Metals

Low-Flow Test Report:

Test Date / Time: 2/3/2025 3:01:32 PM

Project: Arkwright

Operator Name: Max Moore

Location Name: AP1PZ-10 Latitude: 32.91977193975175 Longitude: -83.69888412850099 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 46 ft Total Depth: 56.5 ft Initial Depth to Water: 40.22 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 50.5 ft Estimated Total Volume Pumped: 4050 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 2.97 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1080306
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Test Notes:

Heron Dipper T S/N: 1080306

MP-50 S/N: T11FF2104059JH

ID:103

PSI:30

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	
2/3/2025 3:01 PM	00:00	6.39 pH	20.77 °C	659.48 µS/cm	1.06 mg/L	4.44 NTU	-150.3 mV	40.22 ft	150.00 ml/min
2/3/2025 3:06 PM	05:00	6.41 pH	20.51 °C	664.08 µS/cm	1.08 mg/L	2.23 NTU	-154.6 mV	41.50 ft	150.00 ml/min
2/3/2025 3:11 PM	10:00	6.44 pH	20.91 °C	684.34 µS/cm	0.91 mg/L	1.96 NTU	-155.4 mV	42.70 ft	110.00 ml/min
2/3/2025 3:16 PM	15:00	6.45 pH	22.23 °C	690.12 µS/cm	1.23 mg/L	2.31 NTU	-155.6 mV	42.70 ft	100.00 ml/min
2/3/2025 3:21 PM	20:00	6.46 pH	21.24 °C	732.70 µS/cm	0.89 mg/L	1.40 NTU	-192.5 mV	42.80 ft	100.00 ml/min
2/3/2025 3:26 PM	25:00	6.42 pH	21.27 °C	698.13 µS/cm	0.89 mg/L	1.53 NTU	-143.7 mV	42.94 ft	100.00 ml/min
2/3/2025 3:31 PM	30:00	6.38 pH	21.20 °C	678.06 µS/cm	0.89 mg/L	1.10 NTU	-138.8 mV	43.02 ft	100.00 ml/min
2/3/2025 3:36 PM	35:00	6.36 pH	21.03 °C	670.15 µS/cm	0.78 mg/L	1.01 NTU	-135.2 mV	43.19 ft	100.00 ml/min

Samples

Sample ID:	Description:
ARK-AP1PZ-10	Time: 1540 6 bottle sets: 3 x 1,000 mL (HMO3) - 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: 2/3/2025 5:00:48 PM

Project: Arkwright

Operator Name: Max Moore

Location Name: AP1PZ-11 Latitude: 32.920561104546934 Longitude: -83.69916169953521 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 62.8 ft Total Depth: 73.3 ft Initial Depth to Water: 40.5 ft	Pump Type: Dedicated Bladder Pump Tubing Type: LDPE Pump Intake From TOC: 67.9 ft Estimated Total Volume Pumped: 7500 ml Flow Cell Volume: 90 ml Final Flow Rate: 300 ml/min Final Draw Down: 0.21 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1080306
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Test Notes:

Heron Dipper T S/N: 1080306

MP-50 S/N: T11FF2104059JH

ID:104

PSI:45

Hach 2100Q S/N: 22090D000235

Weather Conditions:

21°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	
2/3/2025 5:00 PM	00:00	6.83 pH	19.24 °C	292.09 µS/cm	3.49 mg/L	5.21 NTU	34.9 mV	40.50 ft	300.00 ml/min
2/3/2025 5:05 PM	05:00	6.80 pH	18.98 °C	288.74 µS/cm	3.45 mg/L	3.66 NTU	39.8 mV	40.66 ft	300.00 ml/min
2/3/2025 5:10 PM	10:00	6.79 pH	18.91 °C	286.35 µS/cm	3.26 mg/L	3.01 NTU	31.9 mV	40.66 ft	300.00 ml/min
2/3/2025 5:15 PM	15:00	6.79 pH	18.88 °C	284.40 µS/cm	3.21 mg/L	2.34 NTU	32.2 mV	40.66 ft	300.00 ml/min
2/3/2025 5:20 PM	20:00	6.79 pH	18.78 °C	282.66 µS/cm	3.20 mg/L	1.86 NTU	32.7 mV	40.71 ft	300.00 ml/min
2/3/2025 5:25 PM	25:00	6.79 pH	18.78 °C	281.39 µS/cm	3.20 mg/L	2.05 NTU	33.3 mV	40.71 ft	300.00 ml/min

Samples

Sample ID:	Description:
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ARK-AP1PZ-11

Time: 1730

6 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

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-1				
AP1GWA-1	10:15	26.16	28.43	Dedicated pump
AP1GWA-2	10:21	18.79	21.92	Dedicated pump
AP1PZ-1	10:30	44.68	77.95	Dedicated pump/new transducer present
AP1PZ-2	10:35	43.00	53.45	Dedicated pump
AP1PZ-3	10:38	43.82	57.65	Dedicated pump/new transducer present
AP1PZ-4	10:42	46.81	58.14	Dedicated pump
AP1PZ-5	10:46	48.65	57.65	Dedicated pump/new transducer present
AP1PZ-7	10:51	50.01	68.27	Dedicated pump
AP1PZ-8	10:55	46.74	56.76	Dedicated pump
AP1PZ-9	11:00	42.24	46.81	Dedicated pump
AP1PZ-10	11:03	40.21	46.73	Dedicated pump/new transducer present
AP1PZ-11	11:08	40.24	63.32	Dedicated pump

Sampler Signatures: *[Signature]* *Jackson Bankston*

Plant Arkwright Surface Water Samples February 10-11, 2025

Sample ID*	Date	Time	Temp(°C)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Conductance (mS/cm)	Coordinates
ARK-BC-0.3	02/10/25	1029	15.5	7.42	104.3	25.3	5.95	0.120	32.918089,-83.698692
ARK-BC-0.1	02/10/25	1048	15.8	7.62	124.3	21.75	4.44	0.213	32.916017,-83.696292
ARK-OR-0.8	02/11/25	0920	11.3	7.59	68.6	19.61	2.89	0.177	32.926994,-83.697536
ARK-OR-0.1	02/11/25	1030	10.8	7.56	59.3	19.93	3.78	0.179	32.916342,-83.696092
ARK-OR-0.3	02/11/25	1005	10.8	7.63	46.3	20.19	3.91	0.180	32.919226, -83.697100
ARK-OR+0.25	02/11/25	1050	10.8	7.55	61.7	23.17	5.21	0.206	32.914186,-83.691789

*OR samples collected with aerial drone utilizing a bailer

B.2 Calibration Data



Field Instrumentation Calibration Form

Site Name: GPC Plant Arkwright

Date: 08/19/2024

Calibrated By: Dylan Quintal

Field Conditions: Sunny, 81F

Instrument	Manufacturer/ 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	10:55	Time Finish	11:15		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,489.0	28.26	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	28.26	± 0.1	GWMP
pH (SU)	7.00	7.01	28.68	± 0.1	GWMP
pH (SU)	10.00	10.01	28.51	± 0.1	GWMP
D.O. (%)	N/A	100.55	30.30	± 10%	NA
ORP (mV)	228.0	218.6	28.78	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	19.7	± 10% of standard	EPA 2023
	100	96		
	800	773		
	10	9.51		

Calibration Check					
Time Start	14:30	Time Finish	14:40		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,462.3	31.29	± 10% of standard	EPA 2023
pH (SU)	4.00	4.05	31.36	± 0.1	GWMP
pH (SU)	7.00	7.04	30.86	± 0.1	GWMP
pH (SU)	10.00	10.02	30.94	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	20.2	± 10% of standard	EPA 2023
	100	100		
	800	801		
	10	9.04		

Notes:

Completed by
Checked by

DQ 08/19/2024
AS 08/23/2024

Field Instrumentation Calibration Form

Site Name: GPC Plant Arkwright

Date: 08/19/2024

Calibrated By: Jackson Bankston

Field Conditions: Sunny, 82F

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In-Situ AquaTroll 400	1080306
Turbidity Meter	Hach 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	4,480	30.72	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	30.68	± 0.1	GWMP
pH (SU)	7.00	6.99	29.85	± 0.1	GWMP
pH (SU)	10.00	10.01	29.27	± 0.1	GWMP
D.O. (%)	N/A	99.12	32.33	± 10%	NA
ORP (mV)	228.0	227.5	29.75	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	19.9		
	100	102		
	800	781		
	10	9.95		

Calibration Check					
Time Start	15:45		Time Finish	15:55	
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,468	28.44	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	28.91	± 0.1	GWMP
pH (SU)	7.00	7.01	29.03	± 0.1	GWMP
pH (SU)	10.00	10.01	29.11	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	20		
	100	104		
	800	767		
	10	9.99		

Team 3

Completed by
Checked by

JB 08/19/2024
AS 08/23/2024

Field Instrumentation Calibration Form

Site Name: GPC Plant Arkwright

Date: 08/19/2024

Calibrated By: John Myer

Field Conditions: Sunny, 83F

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	In-Situ AquaTroll 400	1082817
Turbidity Meter	Hach 2100Q	23060D000290

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	11:20		Time Finish	12:00	
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4533	31.3	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	30.7	± 0.1	GWMP
pH (SU)	7.00	7.00	30.5	± 0.1	GWMP
pH (SU)	10.00	10.00	30.3	± 0.1	GWMP
D.O. (%)	N/A	100	31.6	± 10%	NA
ORP (mV)	228.0	227	31.6	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	19.8		
	100	105		
	800	747		
	10	10.1		

Calibration Check					
Time Start	14:20		Time Finish	14:35	
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,513	37.1	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	37.1	± 0.1	GWMP
pH (SU)	7.00	7.00	36.8	± 0.1	GWMP
pH (SU)	10.00	9.98	35.8	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	20.1		
	100	96.1		
	800	803		
	10	9.94		

Notes:

Completed by
Checked by

JM 08/19/2024
AS 08/23/2024

Field Instrumentation Calibration Form

Site Name: GPC Plant Arkwright

Date: 08/19/2024

Calibrated By: Z. Levy

Field Conditions: Clear, 82F

Instrument	Manufacturer/ 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	10:45	Time Finish	11:03		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,381.4	27.04	± 10% of standard	EPA 2023
pH (SU)	4.00	3.84	27.14	± 0.1	GWMP
pH (SU)	7.00	6.99	26.8	± 0.1	GWMP
pH (SU)	10.00	9.81	26.77	± 0.1	GWMP
D.O. (%)	N/A	103.07	26.06	± 10%	NA
ORP (mV)	228.0	222.4	26.59	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	19.8	± 10% of standard	EPA 2023
	100	100		
	800	807		
	10	9.76		

Calibration Check					
Time Start	1536	Time Finish	1545		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,481.1	29.89	± 10% of standard	EPA 2023
pH (SU)	4.00	4.08	29.89	± 0.1	GWMP
pH (SU)	7.00	7.09	29.33	± 0.1	GWMP
pH (SU)	10.00	10.1	29.14	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	10	9.92	± 10% of standard	EPA 2023
	20	20.9		
	100	101		
	800	802		

Notes:

Completed by
Checked by

ZL 08/19/2024
AS 08/23/2024

Field Instrumentation Calibration Form

Site Name: Plant Arkwright

Date: 2/3/2025

Calibrated By: Max Moore

Field Conditions: Sunny, 20 C

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aquatroll 400	1080306
Turbidity Meter	Hach 2100Q	22090D000235

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	11:50		Time Finish 12:13		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,062	16.59	± 10% of standard	EPA 2023
pH (SU)	4.00	3.99	16.59	± 0.1	GWMP
pH (SU)	7.00	7.02	16.93	± 0.1	GWMP
pH (SU)	10.00	10.12	16.14	± 0.1	GWMP
D.O. (%)	N/A	100.75	16.47	± 10%	N/A
ORP (mV)	228.0	240.6	16.13	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20 NTU	22.1		
	100 NTU	98.8		
	800 NTU	797		
	10 NTU	9.95		

Calibration Check					
Time Start	12:30		Time Finish 19:30		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4530.7	21.55	± 10% of standard	EPA 2023
pH (SU)	4.00	4.08	21.55	± 0.1	GWMP
pH (SU)	7.00	7.1	21.82	± 0.1	GWMP
pH (SU)	10.00	10.08	21.63	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	10	10.7		
	20	20.2		
	100	105		
	800	812		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Arkwright

Date: 2/3/2025

Calibrated By: Jacob Ashe

Field Conditions: Sunny, 14 C

Instrument	Manufacturer/ 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 (°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

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	10	9.61		
	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 (°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

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	10	9.98		
	20	19.3		
	100	99.1		
	800	785		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Arkwright

Date: 2/3/2025

Calibrated By: Devon Abuan

Field Conditions: Sunny, 20 C

Instrument	Manufacturer/ 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	12:00	Time Finish	12:40		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	3964.8	20.9	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	21.63	± 0.1	GWMP
pH (SU)	7.00	7.1	20.55	± 0.1	GWMP
pH (SU)	10.00	10.04	19.74	± 0.1	GWMP
D.O. (%)	N/A	100.62	22.37	± 10%	NA
ORP (mV)	228.0	231.3	21.68	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	19.9		
	100	99.4		
	800	798		
	10	9.72		

Calibration Check					
Time Start	18:20	Time Finish	18:35		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4674.1	20.53	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	20.53	± 0.1	GWMP
pH (SU)	7.00	7.09	19.53	± 0.1	GWMP
pH (SU)	10.00	10.1	19.53	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	20.2		
	100	99.7		
	800	796		
	10	9.67		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Arkwright

Date: 2/3/2025

Calibrated By: Jackson Bankston

Field Conditions: Sunny, 20 C

Instrument	Manufacturer/ 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	11:55		Time Finish	12:10	
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,397	19.4	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	18.69	± 0.1	GWMP
pH (SU)	7.00	7.05	19.09	± 0.1	GWMP
pH (SU)	10.00	10.09	19.37	± 0.1	GWMP
D.O. (%)	N/A	100.23	20.11	± 10%	N/A
ORP (mV)	228.0	241.2	19.85	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	19.9		
	100	101		
	800	746		
	10	10.6		

Calibration Check					
Time Start	18:08		Time Finish	18:15	
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4591.3	21	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	20.47	± 0.1	GWMP
pH (SU)	7.00	7.07	20.84	± 0.1	GWMP
pH (SU)	10.00	10.03	20.06	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	20.5		
	100	107		
	800	818		
	10	10.9		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Arkwright

Date: 2/4/2025

Calibrated By: Jacob Ashe

Field Conditions: Sunny, 14 C

Instrument	Manufacturer/ 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 (°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

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	10	9.61		
	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 (°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

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	10	9.98		
	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	Manufacturer/ 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

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	21.2		
	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

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	20	21.6		
	100	113		
	800	832		
	10	10.4		

Notes:

**2025 Annual Groundwater Monitoring Report
Plant Arkwright Ash Pond 1 Landfill
Macon, Bibb County, Georgia**

B.3 Groundwater & Surface Water Laboratory Analytical Reports



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: 682084

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):

<u>Laboratory ID</u>	<u>Client ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
682084001	ARK-AP1GWA-1	Ground Water	08/19/24 12:15	08/21/24 14:00
682084002	ARK-AP1GWA-2	Ground Water	08/19/24 12:45	08/21/24 14:00
682084003	ARK-AP1PZ-1	Ground Water	08/19/24 13:25	08/21/24 14:00
682084004	ARK-AP1PZ-2	Ground Water	08/19/24 15:40	08/21/24 14:00
682084005	ARK-AP1PZ-3	Ground Water	08/19/24 17:25	08/21/24 14:00
682084006	ARK-AP1PZ-4	Ground Water	08/19/24 14:10	08/21/24 14:00
682084007	ARK-AP1PZ-5	Ground Water	08/19/24 16:05	08/21/24 14:00
682084008	ARK-AP1PZ-7	Ground Water	08/19/24 13:55	08/21/24 14:00
682084009	ARK-AP1PZ-8	Ground Water	08/19/24 15:10	08/21/24 14:00
682084010	ARK-AP1PZ-9	Ground Water	08/19/24 09:30	08/21/24 14:00
682084011	ARK-AP1PZ-10	Ground Water	08/19/24 17:30	08/21/24 14:00
682084012	ARK-AP1PZ-11	Ground Water	08/19/24 13:20	08/21/24 14:00
682084013	ARK-AP1-EB-01	Water	08/19/24 12:00	08/21/24 14:00
682084014	ARK-AP1-FD-01	Water	08/19/24 12:00	08/21/24 14:00
682084015	ARK-AP1-FB-01	Water	08/19/24 13:30	08/21/24 14:00
682084016	ARK-AP1-EB-02	Water	08/19/24 17:30	08/21/24 14:00



682084017	ARK-API-FD-02	Water	08/19/24 12:00	08/21/24 14:00
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682084018	ARK-API-FB-02	Water	08/19/24 14:10	08/21/24 14:00
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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

<u>Method</u>	<u>Run Date ID</u>
SW846 3005A	26-AUG-2024
SW846 7470A Prep	22-AUG-2024

Analysis Methods and Analysis Dates

<u>Method</u>	<u>Run Date ID</u>
EPA 300.0	23-AUG-2024
EPA 300.0	24-AUG-2024
EPA 300.0	29-AUG-2024
SM 2540C	26-AUG-2024
SW846 3005A/6020B	01-SEP-2024
SW846 3005A/6020B	02-SEP-2024
SW846 7470A	23-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,

A handwritten signature in black ink that reads "Alaina Pinnick". The signature is written in a cursive, flowing style.

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: 682084 GEL Work Order: 682084

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- N Metals--The Matrix spike sample recovery is not within specified control limits
- N/A RPD or %Recovery limits do not apply.
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Reviewed by

Alaina Pinnick

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 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-AP1GWA-1 Project: GPCC00100
Sample ID: 682084001 Client ID: GPCC001
Matrix: WG
Collect Date: 19-AUG-24 12:15
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"												
Chloride		1.80	0.0670	0.200	mg/L		1	CWW	08/23/24	1303	2661838	1
Fluoride		0.333	0.0330	0.100	mg/L		1					
Sulfate		55.2	0.665	2.00	mg/L		5	CWW	08/24/24	0458	2661838	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.000670	0.000200	mg/L	1.00	1	JP2	08/23/24	1132	2661034	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	1702	2661532	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0515	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00212	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000367	0.000300	0.00100	mg/L	1.00	1					
Chromium	J	0.00445	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00662	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0112	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00316	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.116	0.00520	0.0150	mg/L	1.00	1	BAJ	09/02/24	1125	2661532	5
Calcium		17.4	0.0800	0.200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		149	2.38	10.0	mg/L			ES2	08/26/24	1131	2662365	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661530
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/22/24	1110	2661033

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-AP1GWA-2

Project: GPCC00100

Sample ID: 682084002

Client ID: GPCC001

Matrix: WG

Collect Date: 19-AUG-24 12:45

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		2.13	0.0670	0.200	mg/L		1	CWW	08/23/24	1438	2661838	1
Fluoride	J	0.0788	0.0330	0.100	mg/L		1					
Sulfate		0.982	0.133	0.400	mg/L		1	CWW	08/24/24	0633	2661838	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/23/24	1133	2661034	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	1736	2661532	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0403	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	J	0.00345	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00177	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.0505	0.00520	0.0150	mg/L	1.00	1	BAJ	09/02/24	1131	2661532	5
Calcium		6.58	0.0800	0.200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		57.0	2.38	10.0	mg/L			ES2	08/26/24	1131	2662365	6

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	2661033
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661530

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-AP1PZ-1 Project: GPCC00100
Sample ID: 682084003 Client ID: GPCC001
Matrix: WG
Collect Date: 19-AUG-24 13:25
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		2.33	0.0670	0.200	mg/L		1	CWW	08/23/24	1510	2661838	1
Fluoride	J	0.0960	0.0330	0.100	mg/L		1					
Sulfate		111	1.33	4.00	mg/L		10	CWW	08/24/24	1135	2661838	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/23/24	1135	2661034	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.382	0.0260	0.0750	mg/L	1.00	5	BAJ	09/02/24	1133	2661532	4
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	1742	2661532	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0358	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	0.000733	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00458	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000419	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					
Calcium		32.6	0.0800	0.200	mg/L	1.00	1	BAJ	09/02/24	1132	2661532	6
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		231	2.38	10.0	mg/L			ES2	08/26/24	1131	2662365	7

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661530
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/22/24	1110	2661033

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-AP1PZ-2	Project: GPCC00100
Sample ID: 682084004	Client ID: GPCC001
Matrix: WG	
Collect Date: 19-AUG-24 15:40	
Receive Date: 21-AUG-24	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Sulfate		703	13.3	40.0	mg/L		100	CWW	08/24/24	1207	2661838	1
Chloride		3.37	0.0670	0.200	mg/L		1	CWW	08/23/24	1542	2661838	2
Fluoride	J	0.0687	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	1140	2661034	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	1747	2661532	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0233	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000403	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.102	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0184	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.421	0.0260	0.0750	mg/L	1.00	5	BAJ	09/02/24	1134	2661532	5
Calcium		177	0.400	1.00	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1060	2.38	10.0	mg/L			ES2	08/26/24	1131	2662365	6

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	2661033
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661530

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-AP1PZ-3	Project: GPCC00100
Sample ID: 682084005	Client ID: GPCC001
Matrix: WG	
Collect Date: 19-AUG-24 17:25	
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		5.61	0.0670	0.200	mg/L		1	CWW	08/23/24	1614	2661838	1
Fluoride		0.112	0.0330	0.100	mg/L		1					
Sulfate		1390	26.6	80.0	mg/L		200	CWW	08/24/24	1239	2661838	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/23/24	1142	2661034	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		1.53	0.0520	0.150	mg/L	1.00	10	BAJ	09/02/24	1141	2661532	4
Calcium		392	0.800	2.00	mg/L	1.00	10					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	1753	2661532	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0207	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00537	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0561	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0632	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000272	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

Solids Analysis

SM2540C Dissolved Solids "As Received"

Total Dissolved Solids	2020	2.38	10.0	mg/L		ES2	08/26/24	1131	2662365	6
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The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661530
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/22/24	1110	2661033

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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-AP1PZ-4	Project: GPCC00100
Sample ID: 682084006	Client ID: GPCC001
Matrix: WG	
Collect Date: 19-AUG-24 14:10	
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		5.64	0.0670	0.200	mg/L		1	CWW	08/23/24	1646	2661838	1
Fluoride		0.209	0.0330	0.100	mg/L		1					
Sulfate		1450	26.6	80.0	mg/L		200	CWW	08/24/24	1311	2661838	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/23/24	1143	2661034	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	1804	2661532	4
Arsenic	J	0.00272	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0308	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	0.000625	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00642	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00402	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		4.01	0.260	0.750	mg/L	1.00	50	BAJ	09/02/24	1142	2661532	5
Calcium		395	4.00	10.0	mg/L	1.00	50					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2200	2.38	10.0	mg/L			ES2	08/26/24	1131	2662365	6

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	2661033
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661530

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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-AP1PZ-5	Project: GPCC00100
Sample ID: 682084007	Client ID: GPCC001
Matrix: WG	
Collect Date: 19-AUG-24 16:05	
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"												
Chloride		9.55	0.268	0.800	mg/L		4	CWW	08/24/24	1342	2661838	1
Sulfate		2140	33.3	100	mg/L		250	CWW	08/24/24	1414	2661838	2
Fluoride		0.320	0.0330	0.100	mg/L		1	CWW	08/23/24	1821	2661838	3
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	1145	2661034	4
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		7.14	0.260	0.750	mg/L	1.00	50	BAJ	09/02/24	1144	2661532	5
Calcium		606	4.00	10.0	mg/L	1.00	50					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/02/24	1036	2661532	6
Arsenic	J	0.00434	0.00200	0.00500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Molybdenum		0.0375	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Barium		0.0340	0.000670	0.00400	mg/L	1.00	1	BAJ	09/01/24	1810	2661532	7
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0890	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.414	0.00300	0.0100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		3060	2.38	10.0	mg/L			ES2	08/26/24	1131	2662365	8

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661530
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/22/24	1110	2661033

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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-AP1PZ-7	Project: GPCC00100
Sample ID: 682084008	Client ID: GPCC001
Matrix: WG	
Collect Date: 19-AUG-24 13:55	
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		1400	26.6	80.0	mg/L		200	CWW	08/24/24	1446	2661838	1
Chloride		6.81	0.0670	0.200	mg/L		1	CWW	08/23/24	1853	2661838	2
Fluoride		0.167	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	1146	2661034	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	1815	2661532	4
Arsenic	J	0.00288	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0285	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		0.00141	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00173	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		3.38	0.260	0.750	mg/L	1.00	50	BAJ	09/02/24	1145	2661532	5
Calcium		364	4.00	10.0	mg/L	1.00	50					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2230	2.38	10.0	mg/L			ES2	08/26/24	1131	2662365	6

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	2661033
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661530

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-AP1PZ-8	Project: GPCC00100
Sample ID: 682084009	Client ID: GPCC001
Matrix: WG	
Collect Date: 19-AUG-24 15:10	
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		732	13.3	40.0	mg/L		100	CWW	08/24/24	1518	2661838	1
Chloride		3.55	0.0670	0.200	mg/L		1	CWW	08/23/24	1925	2661838	2
Fluoride		0.274	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	1148	2661034	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	1821	2661532	4
Arsenic	J	0.00221	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0371	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000322	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000544	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00468	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.712	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		2.94	0.260	0.750	mg/L	1.00	50	BAJ	09/02/24	1146	2661532	5
Calcium		315	4.00	10.0	mg/L	1.00	50					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1380	2.38	10.0	mg/L			ES2	08/26/24	1131	2662365	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661530
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/22/24	1110	2661033

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-AP1PZ-8	Project:	GPCC00100
Sample ID:	682084009	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
The following Analytical Methods were performed:												
Method	Description		Analyst Comments									
1	EPA 300.0											
2	EPA 300.0											
3	SW846 7470A											
4	SW846 3005A/6020B											
5	SW846 3005A/6020B											
6	SM 2540C											

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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-AP1PZ-9	Project: GPCC00100
Sample ID: 682084010	Client ID: GPCC001
Matrix: WG	
Collect Date: 19-AUG-24 09:30	
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		4.57	0.0670	0.200	mg/L		1	CWW	08/23/24	1957	2661838	1
Fluoride		0.795	0.0330	0.100	mg/L		1					
Sulfate		328	3.33	10.0	mg/L		25	CWW	08/24/24	1550	2661838	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/23/24	1150	2661034	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	1832	2661532	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0212	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.000558	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00118	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.102	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.143	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.729	0.0260	0.0750	mg/L	1.00	5	BAJ	09/02/24	1155	2661532	5
Calcium		67.8	0.400	1.00	mg/L	1.00	5					

Solids Analysis

SM2540C Dissolved Solids "As Received"

Total Dissolved Solids	541	2.38	10.0	mg/L			ES2	08/26/24	1131	2662365	6
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The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661530
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/22/24	1110	2661033

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-AP1PZ-10	Project: GPCC00100
Sample ID: 682084011	Client ID: GPCC001
Matrix: WG	
Collect Date: 19-AUG-24 17:30	
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		253	3.33	10.0	mg/L		25	CWW	08/24/24	1622	2661838	1
Chloride		9.67	0.0670	0.200	mg/L		1	CWW	08/23/24	2029	2661838	2
Fluoride		0.464	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	1151	2661034	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.366	0.0260	0.0750	mg/L	1.00	5	BAJ	09/02/24	1156	2661532	4
Calcium		86.4	0.400	1.00	mg/L	1.00	5					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	1838	2661532	5
Arsenic	J	0.00267	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0302	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	0.000895	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0186	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00163	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

Solids Analysis

SM2540C Dissolved Solids "As Received"

Total Dissolved Solids	514	2.38	10.0	mg/L		ES2	08/26/24	1131	2662365	6
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The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661530
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/22/24	1110	2661033

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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-AP1PZ-11	Project: GPCC00100
Sample ID: 682084012	Client ID: GPCC001
Matrix: WG	
Collect Date: 19-AUG-24 13:20	
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		42.3	0.665	2.00	mg/L		5	CWW	08/24/24	1901	2661838	1
Chloride		1.33	0.0670	0.200	mg/L		1	CWW	08/23/24	2204	2661838	2
Fluoride		0.106	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	1153	2661034	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.152	0.00520	0.0150	mg/L	1.00	1	BAJ	09/02/24	1151	2661532	4
Calcium		24.7	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	1844	2661532	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0194	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000492	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		515	2.38	10.0	mg/L			ES2	08/26/24	1131	2662365	6

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	2661033
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661530

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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-AP1-EB-01

Project: GPCC00100

Sample ID: 682084013

Client ID: GPCC001

Matrix: WQ

Collect Date: 19-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	CWW	08/23/24	2236	2661838	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1	CWW	08/29/24	1619	2661838	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.000670	0.000200	mg/L	1.00	1	JP2	08/23/24	1155	2661034	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/02/24	1115	2661532	4
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	1849	2661532	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	3.00	2.38	10.0	mg/L			ES2	08/26/24	1131	2662365	6

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	2661033
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661530

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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-AP1-FD-01

Project: GPCC00100

Sample ID: 682084014

Client ID: GPCC001

Matrix: WQ

Collect Date: 19-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		2.15	0.0670	0.200	mg/L		1	CWW	08/23/24	2308	2661838	1
Fluoride	J	0.0706	0.0330	0.100	mg/L		1					
Sulfate		1.09	0.133	0.400	mg/L		1	CWW	08/29/24	1651	2661838	2
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	U	ND	0.0000670	0.000200	mg/L	1.00	1	JP2	08/23/24	1200	2661034	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron		0.0483	0.00520	0.0150	mg/L	1.00	1	BAJ	09/02/24	1152	2661532	4
Calcium		6.65	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	1900	2661532	5
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0396	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	J	0.00324	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00180	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		62.0	2.38	10.0	mg/L			ES2	08/26/24	1131	2662365	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661530
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/22/24	1110	2661033

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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-AP1-FD-01
Sample ID: 682084014

Project: GPCC00100
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
The following Analytical Methods were performed:												
Method	Description		Analyst Comments									
1	EPA 300.0											
2	EPA 300.0											
3	SW846 7470A											
4	SW846 3005A/6020B											
5	SW846 3005A/6020B											
6	SM 2540C											

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 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-AP1-FB-01

Project: GPCC00100

Sample ID: 682084015

Client ID: GPCC001

Matrix: WQ

Collect Date: 19-AUG-24 13:30

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	CWW	08/24/24	0115	2661838	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	08/23/24	1201	2661034	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	1906	2661532	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/02/24	1116	2661532	4
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			ES2	08/26/24	1131	2662365	5

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	2661033
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661530

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-AP1-FB-01 Project: GPCC00100
Sample ID: 682084015 Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

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

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-AP1-EB-02 Project: GPCC00100
Sample ID: 682084016 Client ID: GPCC001
Matrix: WQ
Collect Date: 19-AUG-24 17:30
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	CWW	08/24/24	0147	2661838	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	0.000670	0.000200	mg/L	1.00	1	JP2	08/23/24	1203	2661034	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/02/24	1117	2661532	3
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	1912	2661532	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

Solids Analysis

SM2540C Dissolved Solids "As Received"

Total Dissolved Solids U ND 2.38 10.0 mg/L ES2 08/26/24 1131 2662365 5

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	2661033
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661530

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-AP1-EB-02	Project:	GPCC00100
Sample ID:	682084016	Client ID:	GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
The following Analytical Methods were performed:											
Method	Description		Analyst Comments								
1	EPA 300.0										
2	SW846 7470A										
3	SW846 3005A/6020B										
4	SW846 3005A/6020B										
5	SM 2540C										

Notes:

Column headers are defined as follows:

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

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-AP1-FD-02	Project: GPCC00100
Sample ID: 682084017	Client ID: GPCC001
Matrix: WQ	
Collect Date: 19-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		43.0	0.665	2.00	mg/L		5	CWW	08/24/24	1932	2661838	1
Chloride		1.32	0.0670	0.200	mg/L		1	CWW	08/24/24	0219	2661838	2
Fluoride		0.105	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	1205	2661034	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	1917	2661532	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0198	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000444	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Boron		0.159	0.00520	0.0150	mg/L	1.00	1	BAJ	09/02/24	1153	2661532	5
Calcium		25.1	0.0800	0.200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		200	2.38	10.0	mg/L			ES2	08/26/24	1131	2662365	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661530
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	08/22/24	1110	2661033

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-AP1-FB-02	Project: GPCC00100
Sample ID: 682084018	Client ID: GPCC001
Matrix: WQ	
Collect Date: 19-AUG-24 14:10	
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	CWW	08/24/24	0251	2661838	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	08/23/24	1206	2661034	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B "As Received"												
Boron	U	ND	0.00520	0.0150	mg/L	1.00	1	BAJ	09/02/24	1118	2661532	3
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	BAJ	09/01/24	1923	2661532	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					

Solids Analysis

SM2540C Dissolved Solids "As Received"

Total Dissolved Solids	J	3.00	2.38	10.0	mg/L			ES2	08/26/24	1131	2662365	5
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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	2661033
SW846 3005A	ICP-MS 3005A PREP	PB1	08/26/24	1505	2661530

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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-AP1-FB-02
Sample ID: 682084018

Project: GPCC00100
Client ID: GPCC001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
The following Analytical Methods were performed:											
Method	Description		Analyst Comments								
1	EPA 300.0										
2	SW846 7470A										
3	SW846 3005A/6020B										
4	SW846 3005A/6020B										
5	SM 2540C										

Notes:

Column headers are defined as follows:

DF: Dilution Factor
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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QC Summary

Report Date: September 5, 2024

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

Contact: Joju Abraham

Workorder: 682084

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2661838										
QC1205832620	682084001	DUP									
Chloride		1.80		1.81	mg/L	0.725		(0%-20%)	CWW	08/23/24	13:35
Fluoride		0.333		0.329	mg/L	1.21	^	(+/-0.100)			
Sulfate		55.2		54.9	mg/L	0.497		(0%-20%)		08/24/24	05:30
QC1205832622	682084011	DUP									
Chloride		9.67		9.69	mg/L	0.146		(0%-20%)		08/23/24	21:00
Fluoride		0.464		0.472	mg/L	1.71	^	(+/-0.100)			
Sulfate		253		254	mg/L	0.506		(0%-20%)		08/24/24	17:57
QC1205832619	LCS										
Chloride	5.00			5.18	mg/L			104 (90%-110%)		08/23/24	12:31
Fluoride	2.50			2.57	mg/L			103 (90%-110%)			
Sulfate	10.0			10.5	mg/L			105 (90%-110%)		08/29/24	15:47
QC1205832618	MB										
Chloride			U	ND	mg/L					08/23/24	11:59
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L					08/29/24	15:15

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QC Summary

Workorder: 682084

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2661838										
QC1205832621	682084001	PS									
Chloride	5.00	1.80		7.03	mg/L		105	(90%-110%)	CWW	08/23/24	14:06
Fluoride	2.50	0.333		3.02	mg/L		107	(90%-110%)			
Sulfate	10.0	11.0		21.7	mg/L		106	(90%-110%)		08/24/24	06:02
 QC1205832623 682084011 PS											
Chloride	5.00	9.67		15.7	mg/L		120*	(90%-110%)		08/23/24	21:32
Fluoride	2.50	0.464		3.10	mg/L		106	(90%-110%)			
Sulfate	10.0	10.1		20.7	mg/L		106	(90%-110%)		08/24/24	18:29
 Metals Analysis - ICPMS											
Batch	2661532										
QC1205831822	LCS										
Antimony	0.0500			0.0503	mg/L		101	(80%-120%)	BAJ	09/01/24	16:54
Arsenic	0.0500			0.0500	mg/L		100	(80%-120%)			
Barium	0.0500			0.0495	mg/L		99.1	(80%-120%)			
Beryllium	0.0500			0.0597	mg/L		119	(80%-120%)			
Boron	0.100			0.111	mg/L		111	(80%-120%)		09/02/24	11:14
Cadmium	0.0500			0.0495	mg/L		99.1	(80%-120%)		09/01/24	16:54
Calcium	2.00			2.17	mg/L		109	(80%-120%)		09/02/24	11:14

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QC Summary

Workorder: 682084

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2661532										
Chromium	0.0500			0.0505	mg/L		101	(80%-120%)	BAJ	09/01/24	16:54
Cobalt	0.0500			0.0486	mg/L		97.2	(80%-120%)			
Lead	0.0500			0.0504	mg/L		101	(80%-120%)			
Lithium	0.0500			0.0570	mg/L		114	(80%-120%)			
Molybdenum	0.0500			0.0493	mg/L		98.5	(80%-120%)			
Selenium	0.0500			0.0491	mg/L		98.2	(80%-120%)			
Thallium	0.0500			0.0481	mg/L		96.2	(80%-120%)			
QC1205831821	MB										
Antimony			U	ND	mg/L					09/01/24	16:51
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L					09/02/24	11:13
Cadmium			U	ND	mg/L					09/01/24	16:51
Calcium			U	ND	mg/L					09/02/24	11:13

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QC Summary

Workorder: 682084

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2661532										
Chromium			U	ND	mg/L				BAJ	09/01/24	16:51
Cobalt			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Molybdenum			U	ND	mg/L						
Selenium			U	ND	mg/L						
Thallium			U	ND	mg/L						
QC1205831823 682084001 MS											
Antimony	0.0500	U	ND	0.0516	mg/L		103	(75%-125%)		09/01/24	17:05
Arsenic	0.0500	U	ND	0.0523	mg/L		102	(75%-125%)			
Barium	0.0500		0.0515	0.0992	mg/L		95.3	(75%-125%)			
Beryllium	0.0500		0.00212	0.0654	mg/L		127 *	(75%-125%)			
Boron	0.100		0.116	0.229	mg/L		113	(75%-125%)		09/02/24	11:26
Cadmium	0.0500	J	0.000367	0.0516	mg/L		103	(75%-125%)		09/01/24	17:05
Calcium	2.00		17.4	19.0	mg/L		N/A	(75%-125%)		09/02/24	11:26

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QC Summary

Workorder: 682084

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Parname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS												
Batch	2661532											
Chromium	0.0500	J	0.00445		0.0525	mg/L		96	(75%-125%)	BAJ	09/01/24	17:05
Cobalt	0.0500		0.00662		0.0551	mg/L		96.9	(75%-125%)			
Lead	0.0500	U	ND		0.0512	mg/L		102	(75%-125%)			
Lithium	0.0500		0.0112		0.0700	mg/L		117	(75%-125%)			
Molybdenum	0.0500	U	ND		0.0500	mg/L		99.9	(75%-125%)			
Selenium	0.0500	J	0.00316		0.0538	mg/L		101	(75%-125%)			
Thallium	0.0500	U	ND		0.0484	mg/L		96.7	(75%-125%)			
QC1205831824	682084001	MSD										
Antimony	0.0500	U	ND		0.0476	mg/L	8.02	95.1	(0%-20%)		09/01/24	17:08
Arsenic	0.0500	U	ND		0.0491	mg/L	6.29	95.7	(0%-20%)			
Barium	0.0500		0.0515		0.0922	mg/L	7.32	81.3	(0%-20%)			
Beryllium	0.0500		0.00212		0.0603	mg/L	8.14	116	(0%-20%)			
Boron	0.100		0.116		0.224	mg/L	2.31	108	(0%-20%)		09/02/24	11:28
Cadmium	0.0500	J	0.000367		0.0478	mg/L	7.75	94.8	(0%-20%)		09/01/24	17:08
Calcium	2.00		17.4		18.3	mg/L	3.75	N/A	(0%-20%)		09/02/24	11:28

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QC Summary

Workorder: 682084

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2661532										
Chromium	0.0500	J	0.00445	0.0519	mg/L	1.1	94.9	(0%-20%)	BAJ	09/01/24	17:08
Cobalt	0.0500		0.00662	0.0532	mg/L	3.39	93.2	(0%-20%)			
Lead	0.0500	U	ND	0.0475	mg/L	7.48	94.9	(0%-20%)			
Lithium	0.0500		0.0112	0.0679	mg/L	3.06	113	(0%-20%)			
Molybdenum	0.0500	U	ND	0.0479	mg/L	4.28	95.7	(0%-20%)			
Selenium	0.0500	J	0.00316	0.0486	mg/L	10	91	(0%-20%)			
Thallium	0.0500	U	ND	0.0456	mg/L	5.77	91.2	(0%-20%)			
QC1205842017	682084001	PS									
Beryllium	50.0		2.12	67.4	ug/L		130*	(75%-125%)		09/01/24	17:11
QC1205831825	682084001	SDILT									
Antimony		U	ND	U	ND	ug/L	N/A	(0%-20%)		09/01/24	17:14
Arsenic		U	ND	U	ND	ug/L	N/A	(0%-20%)			
Barium			51.5	10.8	ug/L	4.96		(0%-20%)			
Beryllium			2.12	J	0.436	ug/L	2.68	(0%-20%)			
Boron			116		23.8	ug/L	2.74	(0%-20%)		09/02/24	11:30
Cadmium		J	0.367	U	ND	ug/L	N/A	(0%-20%)		09/01/24	17:14

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QC Summary

Workorder: 682084

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2661532										
Calcium		17400		3600	ug/L	3.41		(0%-20%)	BAJ	09/02/24	11:30
Chromium	J	4.45	U	ND	ug/L	N/A		(0%-20%)		09/01/24	17:14
Cobalt		6.62		1.45	ug/L	9.2		(0%-20%)			
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium		11.2	U	ND	ug/L	N/A		(0%-20%)			
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Selenium	J	3.16	U	ND	ug/L	N/A		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2661034										
QC1205830709	682062001	DUP									
Mercury	U	ND	U	ND	mg/L	N/A			JP2	08/23/24	11:25
QC1205830708	LCS										
Mercury	0.00200			0.00201	mg/L		100	(80%-120%)		08/23/24	11:22
QC1205830707	MB										
Mercury			U	ND	mg/L					08/23/24	11:20
QC1205830710	682062001	MS									
Mercury	0.00200	U	ND	0.00128	mg/L		63.8*	(75%-125%)		08/23/24	11:27

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QC Summary

Workorder: 682084

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2661034										
QC1205830712	682062001	PS									
Mercury	2.00	U	ND		1.22	ug/L	61 *	(80%-120%)	JP2	08/23/24	11:30
QC1205830711	682062001	SDILT									
Mercury		U	ND	U	ND	ug/L	N/A	(0%-10%)		08/23/24	11:28
Solids Analysis											
Batch	2662365										
QC1205833963	682084009	DUP									
Total Dissolved Solids			1380		1350	mg/L	1.98	(0%-5%)	ES2	08/26/24	11:31
QC1205833961	LCS										
Total Dissolved Solids	300				288	mg/L	96	(95%-105%)		08/26/24	11:31
QC1205833960	MB										
Total Dissolved Solids			U		ND	mg/L				08/26/24	11:31

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- N Metals--The Matrix spike sample recovery is not within specified control limits
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit

**Technical Case Narrative
Georgia Power Company
SDG #: 682084**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2661532

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 15

Preparation Batch: 2661530

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
682084001	ARK-APIGWA-1
682084002	ARK-APIGWA-2
682084003	ARK-APIPZ-1
682084004	ARK-APIPZ-2
682084005	ARK-APIPZ-3
682084006	ARK-APIPZ-4
682084007	ARK-APIPZ-5
682084008	ARK-APIPZ-7
682084009	ARK-APIPZ-8
682084010	ARK-APIPZ-9
682084011	ARK-APIPZ-10
682084012	ARK-APIPZ-11
682084013	ARK-API-EB-01
682084014	ARK-API-FD-01
682084015	ARK-API-FB-01
682084016	ARK-API-EB-02
682084017	ARK-API-FD-02
682084018	ARK-API-FB-02
1205831821	Method Blank (MB) ICP-MS
1205831822	Laboratory Control Sample (LCS)
1205831825	682084001(ARK-APIGWA-1L) Serial Dilution (SD)
1205831823	682084001(ARK-APIGWA-1S) Matrix Spike (MS)
1205831824	682084001(ARK-APIGWA-1SD) Matrix Spike Duplicate (MSD)
1205842017	682084001(ARK-APIGWA-1PS) Post Spike (PS)

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

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement

The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike also did not meet the required control limits; thus, confirming matrix interferences and/or sample non-homogeneity.

Sample	Analyte	Value
1205831823 (ARK-APIGWA-1MS)	Beryllium	127* (75%-125%)

Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the PS analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The PS did not meet the recommended quality control acceptance criteria for percent recoveries for all applicable analytes and verifies the presence of matrix interferences.

Sample	Analyte	Value
1205842017 (ARK-APIGWA-1PS)	Beryllium	130* (75%-125%)

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 682084003 (ARK-APIPZ-1), 682084004 (ARK-APIPZ-2), 682084005 (ARK-APIPZ-3), 682084006 (ARK-APIPZ-4), 682084007 (ARK-APIPZ-5), 682084008 (ARK-APIPZ-7), 682084009 (ARK-APIPZ-8), 682084010 (ARK-APIPZ-9) and 682084011 (ARK-APIPZ-10) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	682084									
	003	004	005	006	007	008	009	010	011	
Boron	5X	5X	10X	50X	50X	50X	50X	5X	5X	
Calcium	1X	5X	10X	50X	50X	50X	50X	5X	5X	

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 40

Analytical Batch: 2661034

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 40

Preparation Batch: 2661033

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
682084001	ARK-APIGWA-1
682084002	ARK-APIGWA-2
682084003	ARK-APIPZ-1
682084004	ARK-APIPZ-2
682084005	ARK-APIPZ-3
682084006	ARK-APIPZ-4
682084007	ARK-APIPZ-5
682084008	ARK-APIPZ-7
682084009	ARK-APIPZ-8
682084010	ARK-APIPZ-9
682084011	ARK-APIPZ-10
682084012	ARK-APIPZ-11
682084013	ARK-API-EB-01
682084014	ARK-API-FD-01
682084015	ARK-API-FB-01
682084016	ARK-API-EB-02
682084017	ARK-API-FD-02
682084018	ARK-API-FB-02
1205830707	Method Blank (MB)CVAA
1205830708	Laboratory Control Sample (LCS)
1205830711	682062001(NonSDGL) Serial Dilution (SD)
1205830709	682062001(NonSDGD) Sample Duplicate (DUP)
1205830710	682062001(NonSDGS) Matrix Spike (MS)
1205830712	682062001(NonSDGPS) Post Spike (PS)

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

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Quality Control (QC) Information

Matrix Spike (MS/MSD) Recovery Statement

The percent recoveries (%R) obtained from the MS/MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS/MSD (See Below) did not meet the recommended quality control acceptance criteria for percent recoveries for the following applicable analyte. The post spike also did not meet the required control limits; thus, confirming matrix interferences and/or sample non-homogeneity.

Sample	Analyte	Value
1205830710 (Non SDG 682062001MS)	Mercury	63.8* (75%-125%)

Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the PS analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The PS did not meet the recommended quality control acceptance criteria for percent recoveries for all applicable analytes and verifies the presence of matrix interferences.

Sample	Analyte	Value
1205830712 (Non SDG 682062001PS)	Mercury	61* (80%-120%)

General Chemistry

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 35

Analytical Batch: 2661838

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
682084001	ARK-APIGWA-1
682084002	ARK-APIGWA-2
682084003	ARK-APIPZ-1
682084004	ARK-APIPZ-2
682084005	ARK-APIPZ-3
682084006	ARK-APIPZ-4
682084007	ARK-APIPZ-5
682084008	ARK-APIPZ-7
682084009	ARK-APIPZ-8
682084010	ARK-APIPZ-9
682084011	ARK-APIPZ-10
682084012	ARK-APIPZ-11
682084013	ARK-API-EB-01
682084014	ARK-API-FD-01
682084015	ARK-API-FB-01
682084016	ARK-API-EB-02
682084017	ARK-API-FD-02
682084018	ARK-API-FB-02
1205832618	Method Blank (MB)
1205832619	Laboratory Control Sample (LCS)
1205832620	682084001(ARK-APIGWA-1) Sample Duplicate (DUP)
1205832621	682084001(ARK-APIGWA-1) Post Spike (PS)
1205832622	682084011(ARK-APIPZ-10) Sample Duplicate (DUP)
1205832623	682084011(ARK-APIPZ-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.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Chloride	1205832623 (ARK-APIPZ-10PS)	120* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205832620 (ARK-AP1GWA-1DUP), 1205832621 (ARK-AP1GWA-1PS), 1205832622 (ARK-AP1PZ-10DUP), 1205832623 (ARK-AP1PZ-10PS), 682084001 (ARK-AP1GWA-1), 682084003 (ARK-AP1PZ-1), 682084004 (ARK-AP1PZ-2), 682084005 (ARK-AP1PZ-3), 682084006 (ARK-AP1PZ-4), 682084007 (ARK-AP1PZ-5), 682084008 (ARK-AP1PZ-7), 682084009 (ARK-AP1PZ-8), 682084010 (ARK-AP1PZ-9), 682084011 (ARK-AP1PZ-10), 682084012 (ARK-AP1PZ-11) and 682084017 (ARK-AP1-FD-02) 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	682084									
	001	003	004	005	006	007	008	009	010	011
Chloride	1X	1X	1X	1X	1X	4X	1X	1X	1X	1X
Sulfate	5X	10X	100X	200X	200X	250X	200X	100X	25X	25X

Analyte	682084	
	012	017
Sulfate	5X	5X

Sample Re-analysis

Sample was re-analyzed due to high CVH failure. The reanalysis data with passing instrument QC was reported. 1205832618 (MB), 1205832619 (LCS), 682084002 (ARK-AP1GWA-2), 682084013 (ARK-AP1-EB-01) and 682084014 (ARK-AP1-FD-01).

Miscellaneous Information

Manual Integrations

Samples were manually integrated to correctly position the baseline as set in the calibration standards for the analyte, Fluoride. 1205832620 (ARK-AP1GWA-1DUP), 1205832621 (ARK-AP1GWA-1PS), 1205832622 (ARK-AP1PZ-10DUP), 1205832623 (ARK-AP1PZ-10PS), 682084001 (ARK-AP1GWA-1), 682084002 (ARK-AP1GWA-2), 682084003 (ARK-AP1PZ-1), 682084004 (ARK-AP1PZ-2), 682084005 (ARK-AP1PZ-3), 682084010 (ARK-AP1PZ-9), 682084011 (ARK-AP1PZ-10), 682084012 (ARK-AP1PZ-11), 682084014 (ARK-AP1-FD-01) and 682084017 (ARK-AP1-FD-02).

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 21

Analytical Batch: 2662365

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
682084001	ARK-AP1GWA-1
682084002	ARK-AP1GWA-2
682084003	ARK-AP1PZ-1
682084004	ARK-AP1PZ-2
682084005	ARK-AP1PZ-3
682084006	ARK-AP1PZ-4

682084007	ARK-APIPZ-5
682084008	ARK-APIPZ-7
682084009	ARK-APIPZ-8
682084010	ARK-APIPZ-9
682084011	ARK-APIPZ-10
682084012	ARK-APIPZ-11
682084013	ARK-API-EB-01
682084014	ARK-API-FD-01
682084015	ARK-API-FB-01
682084016	ARK-API-EB-02
682084017	ARK-API-FD-02
682084018	ARK-API-FB-02
1205833960	Method Blank (MB)
1205833961	Laboratory Control Sample (LCS)
1205833963	682084009(ARK-APIPZ-8) Sample Duplicate (DUP)

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

Data Summary:

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

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL Laboratories LLC
 Chemistry | Radiocchemistry | Radiobiology | Speciality Analytics
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hh:mm)	QC Code (6)	Field Filtered (6)	Sample Matrix (6)	Should this sample be considered:		Sample Analysis Requested (6) <i>(Fill in the number of containers for each test)</i>						Comments (task code: ARK-CCR-ASSMT-2024S2)			
						Yes, please supply isotopic info)	(7) Known or possible Hazards	Metals App III (B, Ca) (6020B)	TDS (SM Method 2540C) (300 Rev. 2.1.1993)	Metals App IV (6020B) see Additional Remarks	RAD 226-228 Cmbd	Mercury (7470B)	NI		NI	NI	Preservative Type (6)
ARK-APIPZ-10	08-19-24	1730	N	N	WG			X	X	X	X	X					
ARK-APIPZ-11	08-19-24	1320	N	N	WG			X	X	X	X	X					
ARK-API-EB-01	08-19-24	1200	EB	N	WQ			X	X	X	X	X					
ARK-API-FD-01	08-19-24	NA	FD	N	WQ			X	X	X	X	X					
ARK-API-FB-01	08-19-24	1330	FB	N	WQ			X	X	X	X	X					
ARK-API-EB-02	08-19-24	1730	EB	N	WQ			X	X	X	X	X					
ARK-API-FD-02	08-19-24	NA	FD	N	WQ			X	X	X	X	X					
ARK-API-FB-02	08-19-24	1410	FB	N	WQ			X	X	X	X	X					

Chain of Custody Signatures

Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
<i>[Signature]</i>	Stamps	8/12/24	<i>[Signature]</i>	Stamps	8/21/24
			<i>[Signature]</i>	Stamps	8/21/24

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

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: °C

Sample Collection Time Zone: Eastern Pacific 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, 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	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F, K, P and U-listed wastes.) Waste code(s):	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, 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
 682086 682093 682097
 w/ 8/26/24



SAMPLE RECEIPT & REVIEW FORM

Client: <u>GPRC</u>		SDG/AR/COC/Work Order:		
Received By: <u>CLM</u>		Date Received: <u>8/21/24</u>		
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services <u>Courier</u> Other <u>Cooler 1-0° 3-1° 5-1° 7-0° 9-1° 11-1°</u> <u>2-0° 4-0° 6-0° 8-1° 10-0°</u>		
Suspected Hazard Information		*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 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): <u>0</u> 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?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>See above with coolers</u>
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR5-23</u> Secondary Temperature Device Serial # (If Applicable): _____
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: _____
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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 ___
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) <u>ARL-A RAMW-8 (2 of 3) plastic 1000 has 8/19/24</u>
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed): <u>10) wrote on samples, per COC it should be 8/20/24.</u>				

PM (or PMA) review: Initials WJ Date 8/26/24 Page 1 of 1

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

September 23, 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: 682086

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):

<u>Laboratory ID</u>	<u>Client ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
682086001	ARK-AP1GWA-1	Ground Water	08/19/24 12:15	08/21/24 14:00
682086002	ARK-AP1GWA-2	Ground Water	08/19/24 12:45	08/21/24 14:00
682086003	ARK-AP1PZ-1	Ground Water	08/19/24 13:25	08/21/24 14:00
682086004	ARK-AP1PZ-2	Ground Water	08/19/24 15:40	08/21/24 14:00
682086005	ARK-AP1PZ-3	Ground Water	08/19/24 17:25	08/21/24 14:00
682086006	ARK-AP1PZ-4	Ground Water	08/19/24 14:10	08/21/24 14:00
682086007	ARK-AP1PZ-5	Ground Water	08/19/24 16:05	08/21/24 14:00
682086008	ARK-AP1PZ-7	Ground Water	08/19/24 13:55	08/21/24 14:00
682086009	ARK-AP1PZ-8	Ground Water	08/19/24 15:10	08/21/24 14:00
682086010	ARK-AP1PZ-9	Ground Water	08/19/24 09:30	08/21/24 14:00
682086011	ARK-AP1PZ-10	Ground Water	08/19/24 17:30	08/21/24 14:00
682086012	ARK-AP1PZ-11	Ground Water	08/19/24 13:20	08/21/24 14:00
682086013	ARK-AP1-EB-01	Water	08/19/24 12:00	08/21/24 14:00
682086014	ARK-AP1-FD-01	Water	08/19/24 12:00	08/21/24 14:00
682086015	ARK-AP1-FB-01	Water	08/19/24 13:30	08/21/24 14:00
682086016	ARK-AP1-EB-02	Water	08/19/24 17:30	08/21/24 14:00



682086017 ARK-AP1-FD-02 Water 08/19/24 12:00 08/21/24 14:00

682086018 ARK-AP1-FB-02 Water 08/19/24 14:10 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

<u>Method</u>	<u>Run Date ID</u>
Calculation	23-SEP-2024
EPA 903.1 Modified	20-SEP-2024
EPA 903.1 Modified	23-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,

A handwritten signature in black ink that reads "Alaina Pinnick". The signature is written in a cursive, flowing style.

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: 682086 GEL Work Order: 682086

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 23, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-APIGWA-1
 Sample ID: 682086001
 Matrix: WG
 Collect Date: 19-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.94	+/-1.34	2.09	+/-1.43	3.00	pCi/L			KP1	09/17/24	1127	2661777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.77	+/-1.48	2.09	+/-1.57		pCi/L		1	TON1	09/23/24	1524	2665110	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.832	+/-0.628	0.804	+/-0.646	1.00	pCi/L			MJ2	09/23/24	1117	2660996	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"	2661777	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	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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 23, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP1GWA-2

Project: GPCC00100

Sample ID: 682086002

Client ID: GPCC001

Matrix: WG

Collect Date: 19-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.401	+/-0.797	1.42	+/-0.804	3.00	pCi/L			KP1	09/17/24	1127	2661777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.77	+/-1.06	1.42	+/-1.14		pCi/L		1	TON1	09/23/24	1524	2665110	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		2.37	+/-0.691	0.560	+/-0.807	1.00	pCi/L			MJ2	09/20/24	0824	2660996	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"	2661777	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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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 23, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP1PZ-1

Project: GPCC00100

Sample ID: 682086003

Client ID: GPCC001

Matrix: WG

Collect Date: 19-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.334	+/-1.10	1.97	+/-1.10	3.00	pCi/L			KP1	09/17/24	1127	2661777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.91	+/-1.24	1.97	+/-1.28		pCi/L		1	TON1	09/23/24	1524	2665110	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.57	+/-0.578	0.471	+/-0.658	1.00	pCi/L			MJ2	09/20/24	0824	2660996	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"	2661777	86.2	(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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| 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: September 23, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP1PZ-2

Project: GPCC00100

Sample ID: 682086004

Client ID: GPCC001

Matrix: WG

Collect Date: 19-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.0504	+/-0.717	1.41	+/-0.717	3.00	pCi/L			KP1	09/17/24	1127	2661777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.04	+/-0.908	1.41	+/-0.963		pCi/L		1	TON1	09/23/24	1524	2665110	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.99	+/-0.556	0.298	+/-0.642	1.00	pCi/L			MJ2	09/20/24	0824	2660996	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"	2661777	77.6	(15%-125%)

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

Column headers are defined as follows:

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

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Atlanta, Georgia 30308

Report Date: September 23, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP1PZ-3

Project: GPCC00100

Sample ID: 682086005

Client ID: GPCC001

Matrix: WG

Collect Date: 19-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.72	+/-1.31	2.08	+/-1.38	3.00	pCi/L			KP1	09/17/24	1127	2661777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		4.91	+/-1.54	2.08	+/-1.77		pCi/L		1	TON1	09/23/24	1524	2665110	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		3.19	+/-0.809	0.586	+/-1.10	1.00	pCi/L			MJ2	09/20/24	0824	2660996	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"	2661777	76.5	(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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Atlanta, Georgia 30308

Report Date: September 23, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP1PZ-4

Project: GPCC00100

Sample ID: 682086006

Client ID: GPCC001

Matrix: WG

Collect Date: 19-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	-0.879	+/-1.09	2.21	+/-1.09	3.00	pCi/L			KP1	09/17/24	1127	2661777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.000	+/-1.12	2.21	+/-1.12		pCi/L		1	TON1	09/23/24	1524	2665110	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	-0.146	+/-0.286	0.807	+/-0.286	1.00	pCi/L			MJ2	09/23/24	1117	2660996	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"	2661777	78.5	(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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: September 23, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP1PZ-5

Project: GPCC00100

Sample ID: 682086007

Client ID: GPCC001

Matrix: WG

Collect Date: 19-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.168	+/-0.920	1.73	+/-0.921	3.00	pCi/L			KP1	09/17/24	1127	2661777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		4.26	+/-1.31	1.73	+/-1.49		pCi/L		1	TON1	09/23/24	1524	2665110	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		4.09	+/-0.932	0.661	+/-1.18	1.00	pCi/L			MJ2	09/20/24	0824	2660996	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"	2661777	70.2	(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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: September 23, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP1PZ-7

Project: GPCC00100

Sample ID: 682086008

Client ID: GPCC001

Matrix: WG

Collect Date: 19-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.644	+/-1.49	2.61	+/-1.49	3.00	pCi/L			KP1	09/17/24	1127	2661777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.46	+/-1.57	2.61	+/-1.59		pCi/L		1	TON1	09/23/24	1524	2665110	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.819	+/-0.516	0.523	+/-0.532	1.00	pCi/L			MJ2	09/23/24	1134	2660996	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"	2661777	72.7	(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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: September 23, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP1PZ-8

Project: GPCC00100

Sample ID: 682086009

Client ID: GPCC001

Matrix: WG

Collect Date: 19-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.389	+/-1.30	2.33	+/-1.31	3.00	pCi/L			KP1	09/17/24	1127	2661777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.809	+/-1.34	2.33	+/-1.34		pCi/L		1	TON1	09/23/24	1524	2665110	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.420	+/-0.285	0.321	+/-0.293	1.00	pCi/L			MJ2	09/20/24	0859	2660996	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"	2661777	78.2	(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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Atlanta, Georgia 30308

Report Date: September 23, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP1PZ-9

Project: GPCC00100

Sample ID: 682086010

Client ID: GPCC001

Matrix: WG

Collect Date: 19-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		2.97	+/-1.55	2.32	+/-1.73	3.00	pCi/L			KP1	09/17/24	1127	2661777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.57	+/-1.58	2.32	+/-1.76		pCi/L		1	TON1	09/23/24	1524	2665110	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.596	+/-0.310	0.285	+/-0.332	1.00	pCi/L			MJ2	09/20/24	0859	2660996	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"	2661777	76.8	(15%-125%)

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

Column headers are defined as follows:

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

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Report Date: September 23, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-APIPZ-10
 Sample ID: 682086011
 Matrix: WG
 Collect Date: 19-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.
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Rad Gas Flow Proportional Counting

GFPC Ra228, Liquid "As Received"

Radium-228	U	-0.103	+/-1.26	2.34	+/-1.26	3.00	pCi/L			KP1	09/17/24	1127	2661777	1
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Radium-226+Radium-228 Calculation "See Parent Products"

Radium-226+228 Sum	U	0.528	+/-1.30	2.34	+/-1.31		pCi/L		1	TON1	09/23/24	1524	2665110	2
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Rad Radium-226

Lucas Cell, Ra226, Liquid "As Received"

Radium-226		0.528	+/-0.339	0.367	+/-0.360	1.00	pCi/L			MJ2	09/20/24	0859	2660996	3
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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"	2661777	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	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Atlanta, Georgia 30308

Report Date: September 23, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP1PZ-11

Project: GPCC00100

Sample ID: 682086012

Client ID: GPCC001

Matrix: WG

Collect Date: 19-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	-0.224	+/-0.687	1.43	+/-0.687	3.00	pCi/L			KP1	09/17/24	1126	2661777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.314	+/-0.729	1.43	+/-0.731		pCi/L		1	TON1	09/23/24	1524	2665110	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.314	+/-0.243	0.300	+/-0.249	1.00	pCi/L			MJ2	09/20/24	0859	2660996	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"	2661777	79.3	(15%-125%)

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

Column headers are defined as follows:

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

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Report Date: September 23, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP1-EB-01

Project: GPCC00100

Sample ID: 682086013

Client ID: GPCC001

Matrix: WQ

Collect Date: 19-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		1.70	+/-1.01	1.47	+/-1.10	3.00	pCi/L			KP1	09/17/24	1126	2661777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.17	+/-1.06	1.47	+/-1.15		pCi/L		1	TON1	09/23/24	1524	2665110	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.468	+/-0.323	0.408	+/-0.334	1.00	pCi/L			MJ2	09/20/24	0859	2660996	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"	2661777	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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Report Date: September 23, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP1-FD-01

Project: GPCC00100

Sample ID: 682086014

Client ID: GPCC001

Matrix: WQ

Collect Date: 19-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.09	+/-0.952	1.52	+/-0.992	3.00	pCi/L			KP1	09/17/24	1126	2661777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.52	+/-1.04	1.52	+/-1.08		pCi/L		1	TON1	09/23/24	1524	2665110	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.431	+/-0.422	0.624	+/-0.432	1.00	pCi/L			MJ2	09/23/24	1134	2660996	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"	2661777	80.2	(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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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 23, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP1-FB-01

Project: GPCC00100

Sample ID: 682086015

Client ID: GPCC001

Matrix: WQ

Collect Date: 19-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	-0.415	+/-0.767	1.61	+/-0.767	3.00	pCi/L			KP1	09/17/24	1126	2661777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.290	+/-0.865	1.61	+/-0.867		pCi/L		1	TON1	09/23/24	1524	2665110	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.290	+/-0.402	0.695	+/-0.404	1.00	pCi/L			MJ2	09/20/24	0859	2660996	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"	2661777	78.4	(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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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 23, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP1-EB-02

Project: GPCC00100

Sample ID: 682086016

Client ID: GPCC001

Matrix: WQ

Collect Date: 19-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.83	+/-1.34	2.13	+/-1.42	3.00	pCi/L			KP1	09/17/24	1126	2661777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	2.10	+/-1.38	2.13	+/-1.46		pCi/L		1	TON1	09/23/24	1524	2665110	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.276	+/-0.319	0.461	+/-0.322	1.00	pCi/L			MJ2	09/23/24	1134	2660996	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"	2661777	77	(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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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 23, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP1-FD-02

Project: GPCC00100

Sample ID: 682086017

Client ID: GPCC001

Matrix: WQ

Collect Date: 19-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.579	+/-0.890	1.55	+/-0.903	3.00	pCi/L			KP1	09/17/24	1126	2661777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.87	+/-1.00	1.55	+/-1.05		pCi/L		1	TON1	09/23/24	1524	2665110	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.29	+/-0.460	0.308	+/-0.531	1.00	pCi/L			MJ2	09/20/24	0932	2660996	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"	2661777	82.4	(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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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 23, 2024

Contact: Joju Abraham

Project: Arkwright CCR Groundwater ComplianceRelog: Radiochemistry

Client Sample ID: ARK-AP1-FB-02

Project: GPCC00100

Sample ID: 682086018

Client ID: GPCC001

Matrix: WQ

Collect Date: 19-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.280	+/-0.985	1.80	+/-0.988	3.00	pCi/L			KP1	09/17/24	1125	2661777	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.669	+/-1.05	1.80	+/-1.05		pCi/L		1	TON1	09/23/24	1524	2665110	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.390	+/-0.361	0.572	+/-0.366	1.00	pCi/L			MJ2	09/20/24	0932	2660996	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"	2661777	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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

**Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 682086**

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2665110

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
682086001	ARK-APIGWA-1
682086002	ARK-APIGWA-2
682086003	ARK-APIPZ-1
682086004	ARK-APIPZ-2
682086005	ARK-APIPZ-3
682086006	ARK-APIPZ-4
682086007	ARK-APIPZ-5
682086008	ARK-APIPZ-7
682086009	ARK-APIPZ-8
682086010	ARK-APIPZ-9
682086011	ARK-APIPZ-10
682086012	ARK-APIPZ-11
682086013	ARK-API-EB-01
682086014	ARK-API-FD-01
682086015	ARK-API-FB-01
682086016	ARK-API-EB-02
682086017	ARK-API-FD-02
682086018	ARK-API-FB-02

Data Summary:

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

Product: GFPC Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2661777

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
682086001	ARK-APIGWA-1
682086002	ARK-APIGWA-2
682086003	ARK-APIPZ-1
682086004	ARK-APIPZ-2

682086005	ARK-APIPZ-3
682086006	ARK-APIPZ-4
682086007	ARK-APIPZ-5
682086008	ARK-APIPZ-7
682086009	ARK-APIPZ-8
682086010	ARK-APIPZ-9
682086011	ARK-APIPZ-10
682086012	ARK-APIPZ-11
682086013	ARK-API-EB-01
682086014	ARK-API-FD-01
682086015	ARK-API-FB-01
682086016	ARK-API-EB-02
682086017	ARK-API-FD-02
682086018	ARK-API-FB-02
1205832455	Method Blank (MB)
1205832456	682086001(ARK-APIGWA-1) Sample Duplicate (DUP)
1205832457	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: 2660996

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
682086001	ARK-APIGWA-1
682086002	ARK-APIGWA-2
682086003	ARK-APIPZ-1
682086004	ARK-APIPZ-2
682086005	ARK-APIPZ-3
682086006	ARK-APIPZ-4
682086007	ARK-APIPZ-5
682086008	ARK-APIPZ-7
682086009	ARK-APIPZ-8
682086010	ARK-APIPZ-9
682086011	ARK-APIPZ-10
682086012	ARK-APIPZ-11
682086013	ARK-API-EB-01
682086014	ARK-API-FD-01
682086015	ARK-API-FB-01
682086016	ARK-API-EB-02
682086017	ARK-API-FD-02
682086018	ARK-API-FB-02
1205830631	Method Blank (MB)

1205830632	682086001(ARK-APIGWA-1) Sample Duplicate (DUP)
1205830633	682086001(ARK-APIGWA-1) Matrix Spike (MS)
1205830634	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

Method Blank Criteria

The blank result (See Below) is greater than the MDC but less than the required detection limit.

Sample	Analyte	Value
1205830631 (MB)	Radium-226	Result: 0.870 pCi/L > MDA: 0.789 pCi/L <= RDL: 1.00 pCi/L

Technical Information

Recounts

Samples 1205830631 (MB), 1205830632 (ARK-APIGWA-1DUP), 1205830634 (LCS), 682086001 (ARK-APIGWA-1), 682086006 (ARK-APIPZ-4), 682086008 (ARK-APIPZ-7), 682086014 (ARK-API-FD-01) and 682086016 (ARK-API-EB-02) were degassed and recounted to verify sample results. The second counts are reported.

Miscellaneous Information

Additional Comments

The matrix spike, 1205830633 (ARK-APIGWA-1MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

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

QC Summary

Report Date: September 23, 2024
Page 1 of 2

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

Atlanta, Georgia

Contact: Joju Abraham

Workorder: 682086

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Gas Flow											
Batch	2661777										
QC1205832456	682086001 DUP										
Radium-228	U	1.94	U	-0.463	pCi/L	0		N/A	KP1	09/17/24	11:26
	Uncert:	+/-1.34		+/-0.861							
	TPU:	+/-1.43		+/-0.861							
QC1205832457	LCS										
Radium-228	69.7			66.7	pCi/L		95.7	(75%-125%)	KP1	09/17/24	11:26
	Uncert:			+/-4.15							
	TPU:			+/-17.5							
QC1205832455	MB										
Radium-228			U	-0.0841	pCi/L				KP1	09/17/24	11:26
	Uncert:			+/-0.739							
	TPU:			+/-0.739							
Rad Ra-226											
Batch	2660996										
QC1205830632	682086001 DUP										
Radium-226		0.832		1.27	pCi/L	41.8		(0% - 100%)	MJ2	09/23/24	11:34
	Uncert:	+/-0.628		+/-0.631							
	TPU:	+/-0.646		+/-0.661							
QC1205830634	LCS										
Radium-226	27.2			32.2	pCi/L		118	(75%-125%)	MJ2	09/23/24	11:34
	Uncert:			+/-3.24							
	TPU:			+/-5.77							
QC1205830631	MB										
Radium-226				0.870	pCi/L				MJ2	09/23/24	11:34
	Uncert:			+/-0.610							
	TPU:			+/-0.628							
QC1205830633	682086001 MS										
Radium-226	136	0.832		132	pCi/L		96	(75%-125%)	MJ2	09/20/24	09:32
	Uncert:	+/-0.628		+/-11.1							
	TPU:	+/-0.646		+/-30.2							

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

GEL LABORATORIES LLC

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

QC Summary

Workorder: 682086

Page 2 of 2

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
UI										
BD										
h										
R										
^										
N/A										
ND										
M										
NJ										
FA										
UJ										
Q										
K										
UL										
L										
N1										
Y										
**										
M										
J										

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 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.

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.

Client Name: Georgia Power
 Project/Site Name: Plant Arkwright Ash Pond_1_
 Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
 Collected By: Jackson Bankston, Zach Levy, John Myer, Dylan Quintal
 Send Results To: jabraham@southemco.com EDD@stantec.com
 Cassidy.Sutherland@stantec.com

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm-dd-yy)	*Time Collected (Military (hhmm))	QC Code (e)	Field Filtered (b)	Sample Matrix (d)	Should this sample be considered:		Sample Analysis Requested (f) (Fill in the number of containers for each test)						Comments (task_code: ARK-CCR-ASSMT-2024S2)				
						Yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of containers	Metals App III (B, Ca) (6020B)	TDS (SM Method 2540C) (3000 Rev. 2.1.1993)	Metals App IV (6020B) see Additional Remarks	RAD 226-228 Cmbd	Mercury (7470B)		NI	NI	NI	NI
ARK-APIGWA-1	08-19-24	1215	N	N	WG			6	X	X	X	X						
ARK-APIGWA-2	08-19-24	1245	N	N	WG			6	X	X	X	X						
ARK-APIPZ-1	08-19-24	1325	N	N	WG			6	X	X	X	X						
ARK-APIPZ-2	08-19-24	1540	N	N	WG			6	X	X	X	X						
ARK-APIPZ-3	08-19-24	1725	N	N	WG			6	X	X	X	X						
ARK-APIPZ-4	08-19-24	1410	N	N	WG			6	X	X	X	X						
ARK-APIPZ-5	08-19-24	1605	N	N	WG			6	X	X	X	X						
ARK-APIPZ-7	08-19-24	1355	N	N	WG			6	X	X	X	X						
ARK-APIPZ-8	08-19-24	1510	N	N	WG			6	X	X	X	X						
ARK-APIPZ-9	08-20-24	0930	N	N	WG			6	X	X	X	X						

Chain of Custody Signatures

Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
<i>[Signature]</i>	Staines	8/21/24	<i>[Signature]</i>	Staines	8/21/24
			<i>[Signature]</i>	Staines	8/21/24

TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level
 Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: 0 °C
 Sample Collection Time Zone: 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, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Faecal, 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**
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
 Characteristic Hazards
 Listed Waste
 LW = Listed Waste
 (F, K, P and U-listed wastes.)
 Waste code(s):
 RCRA Metals
 As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead
 TSCA Regulated
 PCB = Polychlorinated biphenyls
 Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)
 Description:
 Please provide any additional details below regarding handling and/or disposal concerns.

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

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (e)	Field Filtered (f)	Sample Matrix (g)	Should this sample be considered:		Sample Analysis Requested (h) (Fill in the number of containers for each test)					Comments (task_code: ARK-CCR-ASSMT-2024S2)	
						Yes, please supply isotopic info.)	(7) Known or possible Hazards	NI	NI	NI	NI	NI		NI
ARK-APIPZ-10	08-19-24	1730	N	N	WG			6	X	X	X	X	X	
ARK-APIPZ-11	08-19-24	1320	N	N	WG			6	X	X	X	X	X	
ARK-API-EB-01	08-19-24	1200	EB	N	WQ			6	X	X	X	X	X	
ARK-API-FD-01	08-19-24	NA	FD	N	WQ			6	X	X	X	X	X	
ARK-API-FB-01	08-19-24	1330	FB	N	WQ			6	X	X	X	X	X	
ARK-API-EB-02	08-19-24	1730	EB	N	WQ			6	X	X	X	X	X	
ARK-API-FD-02	08-19-24	NA	FD	N	WQ			6	X	X	X	X	X	
ARK-API-FB-02	08-19-24	1410	FB	N	WQ			6	X	X	X	X	X	

Chain of Custody Signatures

Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
<i>[Signature]</i>	Sumas	8/21/24	<i>[Signature]</i>	Sumas	8/21/24
			<i>[Signature]</i>	Sumas	8/21/24

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

Fax Results: Yes No

Select Deliverable: C of A QC Summary level 1 Level 2 Level 3 Level

Additional Remarks: Metals App. IV: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: °C

Sample Collection Time Zone: 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 7-70A - 1).

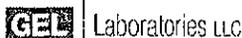
6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F, K, P and U-listed wastes.) Waste code(s):	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, 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
 682086 682093
 682097
 WT 8/26/24



SAMPLE RECEIPT & REVIEW FORM

Client: <u>GPEC</u>		SDG/AR/COC/Work Order:		
Received By: <u>CLM</u>		Date Received: <u>8/21/24</u>		
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services <u>Courier</u> Other <u>Cooler 1-0° 3-1° 5-1° 7-0° 9-1° 11-1°</u> <u>2-0° 4-0° 6-0° 8-1° 10-0°</u>		
Suspected Hazard Information		*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): <u>0</u> 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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>See above with coolers</u>
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR5-23</u> Secondary Temperature Device Serial # (If Applicable): _____
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#: _____
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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 ___
8 Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe) <u>ARC-A RAMW-8 (2 of 3) plastic 1,000 has 8/19/24</u>
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed): <u>10.) wrote on samples, per COC it should be 8/20/24.</u>				

PM (or PMA) review: Initials WJ Date 8/26/24 Page 1 of 1

List of current GEL Certifications as of 23 September 2024

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-00651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	KY90129
Kentucky Wastewater	KY90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2023019
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	NV-C24-00175
New Hampshire NELAP	205424
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2023-152
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235
Utah NELAP	SC000122024-41
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



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.: 92747247

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



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CERTIFICATIONS

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747247

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

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SAMPLE SUMMARY

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747247

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92747247001	ARK-BC-0.3	Water	08/12/24 10:04	08/13/24 13:25
92747247002	ARK-BC-0.1	Water	08/12/24 10:20	08/13/24 13:25
92747247003	ARK-OR-0.8	Water	08/13/24 09:03	08/13/24 13:25
92747247004	ARK-OR-0.1	Water	08/13/24 10:38	08/13/24 13:25
92747247005	ARK-OR-0.3	Water	08/13/24 10:00	08/13/24 13:25
92747247006	ARK-OR+0.25	Water	08/13/24 11:00	08/13/24 13:25

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SAMPLE ANALYTE COUNT

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747247

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92747247001	ARK-BC-0.3	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92747247002	ARK-BC-0.1	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92747247003	ARK-OR-0.8	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92747247004	ARK-OR-0.1	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92747247005	ARK-OR-0.3	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A
92747247006	ARK-OR+0.25	EPA 6010D	AJM	5	PASI-GA
		EPA 6020B	CW1	12	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	2	PASI-A
		EPA 9056A	CDC	3	PASI-A

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SAMPLE ANALYTE COUNT

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747247

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
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PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747247

Sample: ARK-BC-0.3	Lab ID: 92747247001	Collected: 08/12/24 10:04	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 14:00	7440-42-8	
Potassium	2.3	mg/L	0.50	1	08/15/24 16:46	08/19/24 14:00	7440-09-7	
Sodium	8.5	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:00	7440-23-5	M1
Calcium	11.5	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:00	7440-70-2	M1
Magnesium	4.9	mg/L	0.050	1	08/15/24 16:46	08/19/24 14:00	7439-95-4	M1
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	1	08/14/24 09:52	08/14/24 16:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:10	7440-38-2	
Barium	0.048	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	1	08/14/24 09:52	08/14/24 16:10	7440-41-7	
Cadmium	ND	mg/L	0.00050	1	08/14/24 09:52	08/14/24 16:10	7440-43-9	
Chromium	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:10	7440-48-4	
Lead	ND	mg/L	0.0010	1	08/14/24 09:52	08/14/24 16:10	7439-92-1	
Lithium	ND	mg/L	0.030	1	08/14/24 09:52	08/14/24 16:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	08/14/24 09:52	08/14/24 16:10	7439-98-7	
Selenium	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:10	7782-49-2	
Thallium	ND	mg/L	0.0010	1	08/14/24 09:52	08/14/24 16:10	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	1	08/14/24 10:30	08/14/24 15:40	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	135	mg/L	25.0	1		08/15/24 10:49		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	55.7	mg/L	5.0	1		08/14/24 16:35		
Alkalinity, Total as CaCO3	55.7	mg/L	5.0	1		08/14/24 16:35		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	7.5	mg/L	1.0	1		08/14/24 13:12	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/14/24 13:12	16984-48-8	
Sulfate	7.6	mg/L	1.0	1		08/14/24 13:12	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747247

Sample: ARK-BC-0.1	Lab ID: 92747247002	Collected: 08/12/24 10:20	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	0.051	mg/L	0.040	1	08/15/24 16:46	08/19/24 14:16	7440-42-8	
Potassium	2.8	mg/L	0.50	1	08/15/24 16:46	08/19/24 14:16	7440-09-7	
Sodium	9.3	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:16	7440-23-5	
Calcium	15.1	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:16	7440-70-2	
Magnesium	6.1	mg/L	0.050	1	08/15/24 16:46	08/19/24 14:16	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	1	08/14/24 09:52	08/14/24 16:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:15	7440-38-2	
Barium	0.014	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	1	08/14/24 09:52	08/14/24 16:15	7440-41-7	
Cadmium	ND	mg/L	0.00050	1	08/14/24 09:52	08/14/24 16:15	7440-43-9	
Chromium	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:15	7440-48-4	
Lead	ND	mg/L	0.0010	1	08/14/24 09:52	08/14/24 16:15	7439-92-1	
Lithium	ND	mg/L	0.030	1	08/14/24 09:52	08/14/24 16:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	08/14/24 09:52	08/14/24 16:15	7439-98-7	
Selenium	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:15	7782-49-2	
Thallium	ND	mg/L	0.0010	1	08/14/24 09:52	08/14/24 16:15	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	1	08/14/24 10:30	08/14/24 15:43	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	120	mg/L	25.0	1		08/15/24 10:49		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	59.3	mg/L	5.0	1		08/14/24 16:55		
Alkalinity, Total as CaCO3	59.3	mg/L	5.0	1		08/14/24 16:55		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	7.5	mg/L	1.0	1		08/14/24 13:54	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/14/24 13:54	16984-48-8	
Sulfate	14.7	mg/L	1.0	1		08/14/24 13:54	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747247

Sample: ARK-OR-0.8	Lab ID: 92747247003	Collected: 08/13/24 09:03	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	0.059	mg/L	0.040	1	08/15/24 16:46	08/19/24 14:19	7440-42-8	
Potassium	3.3	mg/L	0.50	1	08/15/24 16:46	08/19/24 14:19	7440-09-7	
Sodium	10.1	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:19	7440-23-5	
Calcium	6.4	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:19	7440-70-2	
Magnesium	2.2	mg/L	0.050	1	08/15/24 16:46	08/19/24 14:19	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	1	08/14/24 09:52	08/14/24 16:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:32	7440-38-2	
Barium	0.018	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	1	08/14/24 09:52	08/14/24 16:32	7440-41-7	
Cadmium	ND	mg/L	0.00050	1	08/14/24 09:52	08/14/24 16:32	7440-43-9	
Chromium	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:32	7440-48-4	
Lead	ND	mg/L	0.0010	1	08/14/24 09:52	08/14/24 16:32	7439-92-1	
Lithium	ND	mg/L	0.030	1	08/14/24 09:52	08/14/24 16:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	08/14/24 09:52	08/14/24 16:32	7439-98-7	
Selenium	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:32	7782-49-2	
Thallium	ND	mg/L	0.0010	1	08/14/24 09:52	08/14/24 16:32	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	1	08/14/24 10:30	08/14/24 15:46	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	88.0	mg/L	25.0	1		08/16/24 14:19		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	29.8	mg/L	5.0	1		08/14/24 17:16		
Alkalinity, Total as CaCO3	29.8	mg/L	5.0	1		08/14/24 17:16		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	7.7	mg/L	1.0	1		08/14/24 14:08	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/14/24 14:08	16984-48-8	
Sulfate	9.4	mg/L	1.0	1		08/14/24 14:08	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747247

Sample: ARK-OR-0.1	Lab ID: 92747247004	Collected: 08/13/24 10:38	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	0.056	mg/L	0.040	1	08/15/24 16:46	08/19/24 14:23	7440-42-8	
Potassium	3.1	mg/L	0.50	1	08/15/24 16:46	08/19/24 14:23	7440-09-7	
Sodium	9.6	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:23	7440-23-5	
Calcium	6.2	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:23	7440-70-2	
Magnesium	2.1	mg/L	0.050	1	08/15/24 16:46	08/19/24 14:23	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	1	08/14/24 09:52	08/14/24 16:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:36	7440-38-2	
Barium	0.041	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:36	7440-39-3	
Beryllium	ND	mg/L	0.00050	1	08/14/24 09:52	08/14/24 16:36	7440-41-7	
Cadmium	ND	mg/L	0.00050	1	08/14/24 09:52	08/14/24 16:36	7440-43-9	
Chromium	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:36	7440-47-3	
Cobalt	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:36	7440-48-4	
Lead	ND	mg/L	0.0010	1	08/14/24 09:52	08/14/24 16:36	7439-92-1	
Lithium	ND	mg/L	0.030	1	08/14/24 09:52	08/14/24 16:36	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	08/14/24 09:52	08/14/24 16:36	7439-98-7	
Selenium	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:36	7782-49-2	
Thallium	ND	mg/L	0.0010	1	08/14/24 09:52	08/14/24 16:36	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	1	08/14/24 10:30	08/14/24 15:48	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	74.0	mg/L	25.0	1		08/19/24 12:34		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	30.0	mg/L	5.0	1		08/14/24 17:30		
Alkalinity, Total as CaCO3	30.0	mg/L	5.0	1		08/14/24 17:30		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	7.7	mg/L	1.0	1		08/14/24 14:22	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/14/24 14:22	16984-48-8	
Sulfate	9.5	mg/L	1.0	1		08/14/24 14:22	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747247

Sample: ARK-OR-0.3	Lab ID: 92747247005	Collected: 08/13/24 10:00	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	0.057	mg/L	0.040	1	08/15/24 16:46	08/19/24 14:34	7440-42-8	
Potassium	3.1	mg/L	0.50	1	08/15/24 16:46	08/19/24 14:34	7440-09-7	
Sodium	9.6	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:34	7440-23-5	
Calcium	6.1	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:34	7440-70-2	
Magnesium	2.1	mg/L	0.050	1	08/15/24 16:46	08/19/24 14:34	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	1	08/14/24 09:52	08/14/24 16:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:40	7440-38-2	
Barium	0.013	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	1	08/14/24 09:52	08/14/24 16:40	7440-41-7	
Cadmium	ND	mg/L	0.00050	1	08/14/24 09:52	08/14/24 16:40	7440-43-9	
Chromium	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:40	7440-48-4	
Lead	ND	mg/L	0.0010	1	08/14/24 09:52	08/14/24 16:40	7439-92-1	
Lithium	ND	mg/L	0.030	1	08/14/24 09:52	08/14/24 16:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	08/14/24 09:52	08/14/24 16:40	7439-98-7	
Selenium	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:40	7782-49-2	
Thallium	ND	mg/L	0.0010	1	08/14/24 09:52	08/14/24 16:40	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	1	08/14/24 10:30	08/14/24 15:51	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	73.0	mg/L	25.0	1		08/19/24 12:35		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	29.7	mg/L	5.0	1		08/14/24 17:36		
Alkalinity, Total as CaCO ₃	29.7	mg/L	5.0	1		08/14/24 17:36		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	7.7	mg/L	1.0	1		08/14/24 14:36	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/14/24 14:36	16984-48-8	
Sulfate	9.4	mg/L	1.0	1		08/14/24 14:36	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747247

Sample: ARK-OR+0.25	Lab ID: 92747247006	Collected: 08/13/24 11:00	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	0.057	mg/L	0.040	1	08/15/24 16:46	08/19/24 14:38	7440-42-8	
Potassium	3.1	mg/L	0.50	1	08/15/24 16:46	08/19/24 14:38	7440-09-7	
Sodium	9.8	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:38	7440-23-5	
Calcium	6.2	mg/L	1.0	1	08/15/24 16:46	08/19/24 14:38	7440-70-2	
Magnesium	2.1	mg/L	0.050	1	08/15/24 16:46	08/19/24 14:38	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	1	08/14/24 09:52	08/14/24 16:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:44	7440-38-2	
Barium	0.034	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	1	08/14/24 09:52	08/14/24 16:44	7440-41-7	
Cadmium	ND	mg/L	0.00050	1	08/14/24 09:52	08/14/24 16:44	7440-43-9	
Chromium	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:44	7440-48-4	
Lead	ND	mg/L	0.0010	1	08/14/24 09:52	08/14/24 16:44	7439-92-1	
Lithium	ND	mg/L	0.030	1	08/14/24 09:52	08/14/24 16:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	1	08/14/24 09:52	08/14/24 16:44	7439-98-7	
Selenium	ND	mg/L	0.0050	1	08/14/24 09:52	08/14/24 16:44	7782-49-2	
Thallium	ND	mg/L	0.0010	1	08/14/24 09:52	08/14/24 16:44	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	1	08/14/24 10:30	08/14/24 15:54	7439-97-6	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	57.0	mg/L	25.0	1		08/19/24 12:36		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	30.4	mg/L	5.0	1		08/14/24 17:43		
Alkalinity, Total as CaCO3	30.4	mg/L	5.0	1		08/14/24 17:43		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	7.8	mg/L	1.0	1		08/14/24 14:49	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/14/24 14:49	16984-48-8	
Sulfate	9.5	mg/L	1.0	1		08/14/24 14:49	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747247

QC Batch:	875955	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92747247001, 92747247002, 92747247003, 92747247004, 92747247005, 92747247006

METHOD BLANK: 4512090 Matrix: Water
 Associated Lab Samples: 92747247001, 92747247002, 92747247003, 92747247004, 92747247005, 92747247006

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	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92747247001 Result	Spike Conc.	Spike Conc.	Result						
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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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747247

QC Batch:	875521	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92747247001, 92747247002, 92747247003, 92747247004, 92747247005, 92747247006

METHOD BLANK: 4509771 Matrix: Water

Associated Lab Samples: 92747247001, 92747247002, 92747247003, 92747247004, 92747247005, 92747247006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	08/14/24 15:37	
Arsenic	mg/L	ND	0.0050	08/14/24 15:37	
Barium	mg/L	ND	0.0050	08/14/24 15:37	
Beryllium	mg/L	ND	0.00050	08/14/24 15:37	
Cadmium	mg/L	ND	0.00050	08/14/24 15:37	
Chromium	mg/L	ND	0.0050	08/14/24 15:37	
Cobalt	mg/L	ND	0.0050	08/14/24 15:37	
Lead	mg/L	ND	0.0010	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	
Selenium	mg/L	ND	0.0050	08/14/24 15:37	
Thallium	mg/L	ND	0.0010	08/14/24 15:37	

LABORATORY CONTROL SAMPLE: 4509772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.11	108	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Cadmium	mg/L	0.1	0.11	105	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.11	108	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4509773 4509774

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		292746959001	Spike Conc.	Spike Conc.	Result							Result
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	3	20	
Barium	mg/L	18.5 ug/L	0.1	0.1	0.12	0.12	106	106	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.11	109	108	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747247

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4509773 4509774												
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		92746959001 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	104	104	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.097	102	97	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.099	100	98	75-125	1	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	
Selenium	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747247

QC Batch:	875505	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92747247001, 92747247002, 92747247003, 92747247004, 92747247005, 92747247006

METHOD BLANK: 4509737 Matrix: Water

Associated Lab Samples: 92747247001, 92747247002, 92747247003, 92747247004, 92747247005, 92747247006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	08/14/24 14:45	

LABORATORY CONTROL SAMPLE: 4509738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4509739 4509740

Parameter	Units	92745452001		4509740		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0025	100	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond
 Pace Project No.: 92747247

QC Batch: 875851 Analysis Method: SM 2540C-2015
 QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92747247001, 92747247002

METHOD BLANK: 4511546 Matrix: Water
 Associated Lab Samples: 92747247001, 92747247002

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	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747247

QC Batch: 876190

Analysis Method: SM 2540C-2015

QC Batch Method: SM 2540C-2015

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92747247003

METHOD BLANK: 4513596

Matrix: Water

Associated Lab Samples: 92747247003

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.: 92747247

QC Batch: 876606 Analysis Method: SM 2540C-2015
 QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92747247004, 92747247005, 92747247006

METHOD BLANK: 4515292 Matrix: Water
 Associated Lab Samples: 92747247004, 92747247005, 92747247006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	08/19/24 12:33	

LABORATORY CONTROL SAMPLE: 4515293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	418	104	80-120	

SAMPLE DUPLICATE: 4515294

Parameter	Units	92747247004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	74.0	75.0	1	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.: 92747247

QC Batch: 875570 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92747247001, 92747247002, 92747247003, 92747247004, 92747247005, 92747247006

METHOD BLANK: 4509947 Matrix: Water
 Associated Lab Samples: 92747247001, 92747247002, 92747247003, 92747247004, 92747247005, 92747247006

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.: 92747247

QC Batch:	875472	Analysis Method:	EPA 9056A
QC Batch Method:	EPA 9056A	Analysis Description:	9056 IC anions 28 Days
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92747247001, 92747247002, 92747247003, 92747247004, 92747247005, 92747247006

METHOD BLANK: 4509648 Matrix: Water
 Associated Lab Samples: 92747247001, 92747247002, 92747247003, 92747247004, 92747247005, 92747247006

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		MS		MSD		% Rec	% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result								
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		MS		MSD		% Rec	% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result								
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				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747247

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747247

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92747247001	ARK-BC-0.3	EPA 3010A	875955	EPA 6010D	876037
92747247002	ARK-BC-0.1	EPA 3010A	875955	EPA 6010D	876037
92747247003	ARK-OR-0.8	EPA 3010A	875955	EPA 6010D	876037
92747247004	ARK-OR-0.1	EPA 3010A	875955	EPA 6010D	876037
92747247005	ARK-OR-0.3	EPA 3010A	875955	EPA 6010D	876037
92747247006	ARK-OR+0.25	EPA 3010A	875955	EPA 6010D	876037
92747247001	ARK-BC-0.3	EPA 3005A	875521	EPA 6020B	875636
92747247002	ARK-BC-0.1	EPA 3005A	875521	EPA 6020B	875636
92747247003	ARK-OR-0.8	EPA 3005A	875521	EPA 6020B	875636
92747247004	ARK-OR-0.1	EPA 3005A	875521	EPA 6020B	875636
92747247005	ARK-OR-0.3	EPA 3005A	875521	EPA 6020B	875636
92747247006	ARK-OR+0.25	EPA 3005A	875521	EPA 6020B	875636
92747247001	ARK-BC-0.3	EPA 7470A	875505	EPA 7470A	875591
92747247002	ARK-BC-0.1	EPA 7470A	875505	EPA 7470A	875591
92747247003	ARK-OR-0.8	EPA 7470A	875505	EPA 7470A	875591
92747247004	ARK-OR-0.1	EPA 7470A	875505	EPA 7470A	875591
92747247005	ARK-OR-0.3	EPA 7470A	875505	EPA 7470A	875591
92747247006	ARK-OR+0.25	EPA 7470A	875505	EPA 7470A	875591
92747247001	ARK-BC-0.3	SM 2540C-2015	875851		
92747247002	ARK-BC-0.1	SM 2540C-2015	875851		
92747247003	ARK-OR-0.8	SM 2540C-2015	876190		
92747247004	ARK-OR-0.1	SM 2540C-2015	876606		
92747247005	ARK-OR-0.3	SM 2540C-2015	876606		
92747247006	ARK-OR+0.25	SM 2540C-2015	876606		
92747247001	ARK-BC-0.3	SM 2320B-2011	875570		
92747247002	ARK-BC-0.1	SM 2320B-2011	875570		
92747247003	ARK-OR-0.8	SM 2320B-2011	875570		
92747247004	ARK-OR-0.1	SM 2320B-2011	875570		
92747247005	ARK-OR-0.3	SM 2320B-2011	875570		
92747247006	ARK-OR+0.25	SM 2320B-2011	875570		
92747247001	ARK-BC-0.3	EPA 9056A	875472		
92747247002	ARK-BC-0.1	EPA 9056A	875472		
92747247003	ARK-OR-0.8	EPA 9056A	875472		
92747247004	ARK-OR-0.1	EPA 9056A	875472		
92747247005	ARK-OR-0.3	EPA 9056A	875472		
92747247006	ARK-OR+0.25	EPA 9056A	875472		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document
 Chain-of-custody is a LEGAL DOCUMENT - Complete all relevant fields

MO# : 92747247

 92747247

Company Name: ARCADIS - Atlanta
 Street Address: 2839 Paces Ferry Rd, Atlanta, GA 30339
 Contact/Report To: Kelley Sharpe
 Phone #: (770)547-2978
 E-Mail: kelley.sharpe@arcadis.com
 Cc E-Mail: Arcadis-At + GA Power Distribution List

Customer Project #: Plant Arkwright-CCR Ash Pond
 Accounts Payable
 Invoice E-Mail: georgiapowerinvoices@southernco.com
 Purchase Order # (if applicable): GPC82474-0003

Site Collection Info/Facility ID (as applicable):
 Plant Arkwright SWS
 Invoice To: Accounts Payable
 Invoice E-Mail: georgiapowerinvoices@southernco.com
 Purchase Order # (if applicable): GPC82474-0003
 Quote #:

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET
 County / State origin of sample(s): Georgia
 Data Deliverables: 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:
 Analysis: Field Filtered (if applicable): [] Yes [] No

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), Biosassy (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Leachate (L), Biosolid (BS), Other (OT)
 Requested: 5 Day TAT
 Matrix * Comp / Grab Composite Start Time Collected or Composite End Time # Cont. Res. Chlorine Units

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Time	Collected or Composite End Time	# Cont.	Res. Chlorine Units
ARK-BC-0.3	WS	G	8/12/24	1004	5	
ARK-BC-0.1	WS	G	8/12/24	1020	5	
ARK-OR-0.8	WS	G	8/13/24	0903	5	
ARK-OR-0.1	WS	G	8/13/24	1038	5	
ARK-OR-0.3	WS	G	8/13/24	1000	5	
ARK-OR-0.25	WS	G	8/13/24	1100	5	

Additional Instructions from Pace®:
 ARK-CSURF-ASSMT-2024S2
 Collected By: (Printed Name) Signature: *[Signature]*

Relinquished by/Company: (Signature) Date/Time: 8/13/24
 Received by/Company: (Signature) Date/Time: 8/13/24

Relinquished by/Company: (Signature) Date/Time: 8/13/24
 Received by/Company: (Signature) Date/Time: 8/13/24

Relinquished by/Company: (Signature) Date/Time: 8/13/24
 Received by/Company: (Signature) Date/Time: 8/13/24

Specify Container Size **
 Identify Container Preservative Type***
 Analysis Requested

App. IV Metals + Hg	App. III Metals - B, Ca	Metals - K, Mg, Na	Alkalinity (Total/BiCarb)	Cl, F, SO4	TDS	Radium 226, 228 + Total Radium
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X

Lab Use Only
 Prof. Mgr: Malva Parts
 ActNum / Client ID:
 Table #: 15836
 Profile / Template: EZ 3144736
 Prelog / Bottle Ord. ID:
 Sample Comment: Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
 # Coders: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C) On Ice:
 Date/Time: 8/13/24 1325
 Tracking Number:
 Delivered by: [] In-Person [] Courier [] FedEx [] UPS [] Other
 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:

Project #:

WO#: 92747247

Arcadis - Atlanta

PM: MP

Due Date: 08/20/24

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

CLIENT: GA-ArcadAtI

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: 230

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	5 DAY TAT
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:	WS		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: _____



Effective Date: 05/24/2024

*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 #

WO#: 92747247

PM: MP

Due Date: 08/20/24

CLIENT: GA-ArcadAtI

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	AGLU-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			2																									
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.



August 27, 2024

Priya Jacob
ARCADIS - Atlanta
2839 Paces Ferry Rd
Suite 900
Atlanta, GA 30339

RE: Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747261

Dear Priya Jacob:

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 - Greensburg

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
Jennifer Kolbe, Stantec Consulting
Laura Midkiff, Southern Company
Noelia Muskus Ruiz, Georgia Power
Tina Sullivan, ERM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747261

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

ANABISO/IEC 17025:2017 Rad Cert#: L24170

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 2950

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA010

Louisiana DEQ/TNI Certification #: 04086

Maine Certification #: 2023021

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572023-03

New Hampshire/TNI Certification #: 297622

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-015

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN02867

Texas/TNI Certification #: T104704188-22-18

Utah/TNI Certification #: PA014572223-14

USDA Soil Permit #: 525-23-67-77263

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747261

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92747261001	ARK-BC-0.3	Water	08/12/24 10:04	08/13/24 13:25
92747261002	ARK-BC-0.1	Water	08/12/24 10:20	08/13/24 13:25
92747261003	ARK-OR-0.8	Water	08/13/24 09:03	08/13/24 13:25
92747261004	ARK-OR-0.1	Water	08/13/24 10:38	08/13/24 13:25
92747261005	ARK-OR-0.3	Water	08/13/24 10:00	08/13/24 13:25
92747261006	ARK-OR+0.25	Water	08/13/24 11:00	08/13/24 13:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747261

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92747261001	ARK-BC-0.3	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92747261002	ARK-BC-0.1	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92747261003	ARK-OR-0.8	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92747261004	ARK-OR-0.1	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92747261005	ARK-OR-0.3	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92747261006	ARK-OR+0.25	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747261

Sample: ARK-BC-0.3 **Lab ID: 92747261001** Collected: 08/12/24 10:04 Received: 08/13/24 13:25 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.0546 ± 0.633 (1.23) C:NA T:97%	pCi/L	08/26/24 16:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.106 ± 0.310 (0.697) C:80% T:89%	pCi/L	08/26/24 12:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.106 ± 0.943 (1.93)	pCi/L	08/27/24 16:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747261

Sample: ARK-BC-0.1 **Lab ID: 92747261002** Collected: 08/12/24 10:20 Received: 08/13/24 13:25 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.497 ± 0.829 (1.67) C:NA T:92%	pCi/L	08/26/24 16:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	-0.126 ± 0.260 (0.649) C:77% T:88%	pCi/L	08/26/24 12:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.000 ± 1.09 (2.32)	pCi/L	08/27/24 16:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747261

Sample: ARK-OR-0.8 **Lab ID: 92747261003** Collected: 08/13/24 09:03 Received: 08/13/24 13:25 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.111 ± 0.576 (1.08) C:NA T:98%	pCi/L	08/26/24 16:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.290 ± 0.353 (0.746) C:86% T:84%	pCi/L	08/26/24 15:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.401 ± 0.929 (1.83)	pCi/L	08/27/24 16:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747261

Sample: ARK-OR-0.1	Lab ID: 92747261004	Collected: 08/13/24 10:38	Received: 08/13/24 13:25	Matrix: Water
PWS:	Site ID:	Sample Type:		

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0547 ± 0.387 (0.771) C:NA T:96%	pCi/L	08/26/24 16:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.104 ± 0.286 (0.644) C:84% T:90%	pCi/L	08/26/24 15:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.159 ± 0.673 (1.42)	pCi/L	08/27/24 16:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747261

Sample: ARK-OR-0.3 **Lab ID: 92747261005** Collected: 08/13/24 10:00 Received: 08/13/24 13:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.107 ± 0.469 (0.891) C:NA T:99%	pCi/L	08/26/24 16:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.0170 ± 0.322 (0.753) C:81% T:82%	pCi/L	08/26/24 15:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.124 ± 0.791 (1.64)	pCi/L	08/27/24 16:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747261

Sample: ARK-OR+0.25 **Lab ID: 92747261006** Collected: 08/13/24 11:00 Received: 08/13/24 13:25 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.0544 ± 0.413 (0.863) C:NA T:97%	pCi/L	08/26/24 16:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	-0.240 ± 0.288 (0.728) C:83% T:85%	pCi/L	08/26/24 15:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.000 ± 0.701 (1.59)	pCi/L	08/27/24 16:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747261

QC Batch: 689838

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92747261001, 92747261002, 92747261003, 92747261004, 92747261005, 92747261006

METHOD BLANK: 3359189

Matrix: Water

Associated Lab Samples: 92747261001, 92747261002, 92747261003, 92747261004, 92747261005, 92747261006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0886 ± 0.202 (0.326) C:NA T:98%	pCi/L	08/26/24 16:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747261

QC Batch: 689839

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92747261001, 92747261002, 92747261003, 92747261004, 92747261005, 92747261006

METHOD BLANK: 3359190

Matrix: Water

Associated Lab Samples: 92747261001, 92747261002, 92747261003, 92747261004, 92747261005, 92747261006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.871 ± 0.402 (0.659) C:79% T:91%	pCi/L	08/26/24 14:40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92747261

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92747261

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92747261001	ARK-BC-0.3	EPA 903.1	689838		
92747261002	ARK-BC-0.1	EPA 903.1	689838		
92747261003	ARK-OR-0.8	EPA 903.1	689838		
92747261004	ARK-OR-0.1	EPA 903.1	689838		
92747261005	ARK-OR-0.3	EPA 903.1	689838		
92747261006	ARK-OR+0.25	EPA 903.1	689838		
92747261001	ARK-BC-0.3	EPA 904.0	689839		
92747261002	ARK-BC-0.1	EPA 904.0	689839		
92747261003	ARK-OR-0.8	EPA 904.0	689839		
92747261004	ARK-OR-0.1	EPA 904.0	689839		
92747261005	ARK-OR-0.3	EPA 904.0	689839		
92747261006	ARK-OR+0.25	EPA 904.0	689839		
92747261001	ARK-BC-0.3	Total Radium Calculation	692225		
92747261002	ARK-BC-0.1	Total Radium Calculation	692225		
92747261003	ARK-OR-0.8	Total Radium Calculation	692225		
92747261004	ARK-OR-0.1	Total Radium Calculation	692225		
92747261005	ARK-OR-0.3	Total Radium Calculation	692225		
92747261006	ARK-OR+0.25	Total Radium Calculation	692225		

REPORT OF LABORATORY ANALYSIS

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Company Name: ARCADIS - Atlanta
Street Address: 2839 Paces Ferry Rd, Atlanta, GA 30339

Contact/Report To: Kelley Sharpe
Phone #: (770)547-2978
E-Mail: kelley.sharpe@arcadis.com
Cc E-Mail: Arcadis-Atl + GA Power Distribution List

Customer Project #: Plant Arkwright-CCR Ash Pond
Project Name: Plant Arkwright-CCR Ash Pond

Invoice To: Accounts Payable
Invoice E-Mail: georgiapowerinvoices@southernco.com
Purchase Order # (if applicable): GPC82474-0003

Site Collection Info/Facility ID (as applicable):

Plant Arkwright SWS

Country / State origin of sample(s): Georgia

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET
Data Deliverables: Regulatory Program (DW, RCR, etc.) as applicable: Reportable [] Yes [] No

[] Level II [] Level III [] Level IV
[] EQUIS
[] Other

Rush (Pre-approval required):
[] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other
Date 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 (SD), Sludge (SL), Leachate (L), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine Results	Units
			Date	Time	Date	Time			
ARK-BC-0.3	WS	G	8/12/24	1604			5		
ARK-BC-0.1	WS	G	8/12/24	1620			5		
ARK-OR-0.8	WS	G	8/13/24	0903			5		
ARK-OR-0.1	WS	G	8/13/24	1638			5		
ARK-OR-0.3	WS	G	8/13/24	1600			5		
ARK-OR-0.25	WS	G	8/13/24	1100			5		

Additional Instructions from Pace*:
ARK-CSURF-ASSMT-2024S2

Collected By: (Printed Name) Signature: *Kevin G*

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:
<i>Kevin G</i>	8/13/24	<i>Kevin G</i>	8/13/24
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:
Delivered by: [] In-Person [] Courier [] FedEx [] UPS [] Other
Page: 1 of 1



Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Arcadis - Atlanta

Project #:

WO#: 92747261

PM: MP

Due Date: 08/20/24

CLIENT: GA-ArcadAt1

Courier: Commercial Fed Ex Pace UPS USPS Client Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No N/A

Date/Initials Person Examining Contents: 8/13/24 RW

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: 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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4. 5 DAY TAI
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W3	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: _____



Effective Date: 05/24/2024

WO#: 92747261

*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 #

PM: MP

Due Date: 08/20/24

CLIENT: GA-ArcadAtl

Laboratory Receiving Location: Asheville [] Eden [] Greenwood [] Huntersville [] Raleigh [] Mechanicsville [] Atlanta [x] Kernersville []

Client: Arcadis - Atlanta Profile/EZ (Circle one) 3144736 Notes

Main data table with columns for Item#, CC, and various sample types (BP4U-125 mL Plastic Unpreserved (N/A) (Cl-), etc.) and rows 1-12.

pH Adjustment Log for Preserved Samples

Table with 7 columns: 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.

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 1-Total Metals**
Work Order: 707453

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 707453 in the left-hand footer of the data report. This package has been updated to exclude the previously entered limits and report Appendix IV Metals using GEL PQLs

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

<u>Laboratory ID</u>	<u>Client ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
707453001	ARK-AP1GWA-1	Ground Water	02/03/25 14:00	02/05/25 14:30
707453002	ARK-AP1GWA-2	Ground Water	02/03/25 14:05	02/05/25 14:30
707453003	ARK-AP1PZ-1	Ground Water	02/03/25 17:00	02/05/25 14:30
707453004	ARK-AP1PZ-2	Ground Water	02/03/25 16:05	02/05/25 14:30
707453005	ARK-AP1PZ-3	Ground Water	02/04/25 09:40	02/05/25 14:30
707453006	ARK-AP1PZ-4	Ground Water	02/03/25 18:00	02/05/25 14:30
707453007	ARK-AP1PZ-5	Ground Water	02/03/25 15:45	02/05/25 14:30
707453008	ARK-AP1PZ-7	Ground Water	02/03/25 17:25	02/05/25 14:30
707453009	ARK-AP1PZ-8	Ground Water	02/04/25 10:00	02/05/25 14:30
707453010	ARK-AP1PZ-9	Ground Water	02/04/25 10:50	02/05/25 14:30
707453011	ARK-AP1PZ-10	Ground Water	02/03/25 15:40	02/05/25 14:30
707453012	ARK-AP1PZ-11	Ground Water	02/03/25 17:30	02/05/25 14:30
707453013	ARK-AP1-EB-01	Water	02/03/25 17:55	02/05/25 14:30
707453014	ARK-AP1-EB-02	Water	02/04/25 10:00	02/05/25 14:30
707453015	ARK-AP1-FD-01	Water	02/03/25 12:00	02/05/25 14:30



707453016	ARK-API-FD-02	Water	02/04/25 12:00	02/05/25 14:30
707453017	ARK-API-FB-01	Water	02/04/25 10:40	02/05/25 14:30
707453018	ARK-API-FB-02	Water	02/03/25 16:53	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

<u>Method</u>	<u>Run Date ID</u>
SW846 3005A	06-FEB-2025
SW846 7470A Prep	07-FEB-2025

Analysis Methods and Analysis Dates

<u>Method</u>	<u>Run Date ID</u>
EPA 300.0	06-FEB-2025
EPA 300.0	07-FEB-2025
SM 2540C	07-FEB-2025
SM 2540C	10-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,

A handwritten signature in black ink that reads "Alaina Pinnick". The signature is written in a cursive, flowing style.

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: 707453 GEL Work Order: 707453

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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1GWA-1	Project: GPCC01924
Sample ID: 707453001	Client ID: GPCC003
Matrix: WG	
Collect Date: 03-FEB-25 14:00	
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		52.5	13.3	40.0	mg/L		100	TXT1	02/06/25	1728	2746014	1
Chloride		2.16	0.0670	0.200	mg/L		1	TXT1	02/07/25	0704	2746014	2
Fluoride		0.201	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	1231	2746476	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals** "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/16/25	1828	2745716	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0523	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00169	0.000200	0.000500	mg/L	1.00	1					
Boron		0.104	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		15.5	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00393	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00472	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00946	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00268	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					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		112	2.38	10.0	mg/L			RR4	02/07/25	1346	2746602	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745715
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746475

GEL LABORATORIES LLC

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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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1GWA-1 Project: GPCC01924
Sample ID: 707453001 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	EPA 300.0										
2	EPA 300.0										
3	SW846 7470A										
4	SW846 3005A/6020B										
5	SM 2540C										

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: 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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-APIGWA-2 Project: GPCC01924
Sample ID: 707453002 Client ID: GPCC003
Matrix: WG
Collect Date: 03-FEB-25 14:05
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		2.09	0.0670	0.200	mg/L		1	TXT1	02/07/25	0838	2746014	1
Fluoride	J	0.0524	0.0330	0.100	mg/L		1					
Sulfate		1.18	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	1232	2746476	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals** "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/16/25	1849	2745716	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0350	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0423	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		5.40	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00596	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		47.0	2.38	10.0	mg/L			RR4	02/07/25	1346	2746602	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745715
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746475

GEL LABORATORIES LLC

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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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1PZ-1	Project: GPCC01924
Sample ID: 707453003	Client ID: GPCC003
Matrix: WG	
Collect Date: 03-FEB-25 17:00	
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		108	13.3	40.0	mg/L		100	TXT1	02/06/25	1934	2746014	1
Chloride		2.07	0.0670	0.200	mg/L		1	TXT1	02/07/25	0909	2746014	2
Fluoride	J	0.0720	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	1234	2746476	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals** "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/16/25	1851	2745716	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0332	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		0.00141	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00415	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000437	0.000200	0.00100	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		0.404	0.0260	0.0750	mg/L	1.00	5	PRB	02/18/25	1950	2745716	5
Calcium		34.5	0.400	1.00	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		236	2.38	10.0	mg/L			RR4	02/07/25	1346	2746602	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745715
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746475

GEL LABORATORIES LLC

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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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1PZ-1

Project: GPCC01924

Sample ID: 707453003

Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1PZ-2	Project: GPCC01924
Sample ID: 707453004	Client ID: GPCC003
Matrix: WG	
Collect Date: 03-FEB-25 16:05	
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		525	13.3	40.0	mg/L		100	TXT1	02/06/25	2005	2746014	1
Chloride		2.98	0.134	0.400	mg/L		2	TXT1	02/07/25	0941	2746014	2
Fluoride	U	ND	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	1236	2746476	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals** "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/16/25	1854	2745716	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0201	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		0.0453	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0119	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
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		0.370	0.0260	0.0750	mg/L	1.00	5	PRB	02/18/25	1952	2745716	5
Calcium		148	0.400	1.00	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		902	4.76	20.0	mg/L			RR4	02/07/25	1346	2746602	6

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	2746475
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745715

GEL LABORATORIES LLC

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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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1PZ-2

Project: GPCC01924

Sample ID: 707453004

Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1PZ-3	Project: GPCC01924
Sample ID: 707453005	Client ID: GPCC003
Matrix: WG	
Collect Date: 04-FEB-25 09:40	
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		1280	13.3	40.0	mg/L		100	TXT1	02/06/25	2036	2746014	1
Chloride		5.29	0.335	1.00	mg/L		5	TXT1	02/07/25	1255	2746014	2
Fluoride	U	ND	0.165	0.500	mg/L		5					
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	1237	2746476	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals** "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/16/25	1857	2745716	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0219	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00200	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.0579	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0616	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000308	0.000200	0.00100	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		1.62	0.104	0.300	mg/L	1.00	20	PRB	02/18/25	1955	2745716	5
Calcium		425	1.60	4.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2150	4.76	20.0	mg/L			RR4	02/07/25	1151	2746604	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745715
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746475

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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1PZ-3

Project: GPCC01924

Sample ID: 707453005

Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1PZ-4	Project: GPCC01924
Sample ID: 707453006	Client ID: GPCC003
Matrix: WG	
Collect Date: 03-FEB-25 18:00	
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		1310	13.3	40.0	mg/L		100	TXT1	02/06/25	2108	2746014	1
Chloride		5.22	0.335	1.00	mg/L		5	TXT1	02/07/25	1326	2746014	2
Fluoride	U	ND	0.165	0.500	mg/L		5					
Mercury Analysis-CVAA												
7470 Cold Vapor Mercury, Liquid "As Received"												
Mercury	J	0.000122	0.0000670	0.000200	mg/L	1.00	1	JP2	02/10/25	1251	2746476	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals** "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/16/25	1900	2745716	4
Arsenic	J	0.00208	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0290	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	0.000495	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00581	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00419	0.000200	0.00100	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		4.05	0.130	0.375	mg/L	1.00	25	PRB	02/18/25	1958	2745716	5
Calcium		404	2.00	5.00	mg/L	1.00	25					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2040	4.76	20.0	mg/L			RR4	02/07/25	1346	2746602	6

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	2746475
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745715

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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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1PZ-4

Project: GPCC01924

Sample ID: 707453006

Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: 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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1PZ-5	Project: GPCC01924
Sample ID: 707453007	Client ID: GPCC003
Matrix: WG	
Collect Date: 03-FEB-25 15:45	
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		2030	26.6	80.0	mg/L		200	TXT1	02/07/25	1357	2746014	1
Chloride		9.99	0.335	1.00	mg/L		5	TXT1	02/07/25	1429	2746014	2
Fluoride	J	0.461	0.165	0.500	mg/L		5					
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	1253	2746476	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals** "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/16/25	1903	2745716	4
Arsenic	J	0.00401	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0345	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		0.0717	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.327	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.0386	0.000200	0.00100	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		7.92	0.520	1.50	mg/L	1.00	100	PRB	02/18/25	2001	2745716	5
Calcium		606	8.00	20.0	mg/L	1.00	100					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2950	4.76	20.0	mg/L			RR4	02/07/25	1346	2746602	6

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	2746475
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745715

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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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1PZ-5

Project: GPCC01924

Sample ID: 707453007

Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: 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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1PZ-7	Project: GPCC01924
Sample ID: 707453008	Client ID: GPCC003
Matrix: WG	
Collect Date: 03-FEB-25 17:25	
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		1320	13.3	40.0	mg/L		100	TXT1	02/06/25	2313	2746014	1
Chloride		6.24	0.335	1.00	mg/L		5	TXT1	02/07/25	1500	2746014	2
Fluoride	U	ND	0.165	0.500	mg/L		5					
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	1255	2746476	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals** "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/16/25	1906	2745716	4
Arsenic	J	0.00232	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0267	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		0.00281	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00300	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.00147	0.000200	0.00100	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		3.46	0.260	0.750	mg/L	1.00	50	PRB	02/18/25	2010	2745716	5
Calcium		359	4.00	10.0	mg/L	1.00	50					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2220	4.76	20.0	mg/L			RR4	02/07/25	1346	2746602	6

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	2746475
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745715

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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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1PZ-7

Project: GPCC01924

Sample ID: 707453008

Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: 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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1PZ-8	Project: GPCC01924
Sample ID: 707453009	Client ID: GPCC003
Matrix: WG	
Collect Date: 04-FEB-25 10:00	
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		635	13.3	40.0	mg/L		100	TXT1	02/06/25	2345	2746014	1
Chloride		3.24	0.134	0.400	mg/L		2	TXT1	02/07/25	1532	2746014	2
Fluoride		0.301	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	1256	2746476	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals** "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/16/25	1909	2745716	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0349	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000363	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000796	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00357	0.00300	0.0100	mg/L	1.00	1					
Molybdenum		0.812	0.000200	0.00100	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		3.01	0.104	0.300	mg/L	1.00	20	PRB	02/18/25	2012	2745716	5
Calcium		317	1.60	4.00	mg/L	1.00	20					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		1380	4.76	20.0	mg/L			RR4	02/07/25	1151	2746604	6

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	2746475
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745715

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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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1PZ-9	Project: GPCC01924
Sample ID: 707453010	Client ID: GPCC003
Matrix: WG	
Collect Date: 04-FEB-25 10:50	
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		291	13.3	40.0	mg/L		100	TXT1	02/07/25	0016	2746014	1
Chloride		3.77	0.134	0.400	mg/L		2	TXT1	02/07/25	1603	2746014	2
Fluoride		0.623	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	1258	2746476	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals** "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/16/25	1917	2745716	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0207	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.000645	0.000200	0.000500	mg/L	1.00	1					
Cadmium		0.00124	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	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					
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		0.815	0.0520	0.150	mg/L	1.00	10	PRB	02/18/25	2015	2745716	5
Calcium		71.3	0.800	2.00	mg/L	1.00	10					
Cobalt		0.120	0.00300	0.0100	mg/L	1.00	10					
Lithium		0.157	0.0300	0.100	mg/L	1.00	10					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		529	2.38	10.0	mg/L			RR4	02/07/25	1151	2746604	6

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745715
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746475

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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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1PZ-9

Project: GPCC01924

Sample ID: 707453010

Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: 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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1PZ-10	Project: GPCC01924
Sample ID: 707453011	Client ID: GPCC003
Matrix: WG	
Collect Date: 03-FEB-25 15:40	
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		194	13.3	40.0	mg/L		100	TXT1	02/07/25	0047	2746014	1
Chloride		6.52	0.134	0.400	mg/L		2	TXT1	02/07/25	1634	2746014	2
Fluoride		0.415	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	1303	2746476	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals** "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/16/25	1920	2745716	4
Arsenic	J	0.00202	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0327	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		0.00147	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium		0.0233	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000717	0.000200	0.00100	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		0.379	0.0260	0.0750	mg/L	1.00	5	PRB	02/18/25	2018	2745716	5
Calcium		75.2	0.400	1.00	mg/L	1.00	5					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		467	2.38	10.0	mg/L			RR4	02/07/25	1151	2746604	6

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	2746475
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745715

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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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1PZ-11	Project: GPCC01924
Sample ID: 707453012	Client ID: GPCC003
Matrix: WG	
Collect Date: 03-FEB-25 17:30	
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		55.0	13.3	40.0	mg/L		100	TXT1	02/07/25	0221	2746014	1
Chloride		1.25	0.0670	0.200	mg/L		1	TXT1	02/07/25	1911	2746014	2
Fluoride	J	0.0769	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	1305	2746476	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals** "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/16/25	1923	2745716	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0200	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.181	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		25.0	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000401	0.000200	0.00100	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					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		194	2.38	10.0	mg/L			RR4	02/07/25	1151	2746604	5

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745715
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746475

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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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1-EB-01	Project: GPCC01924
Sample ID: 707453013	Client ID: GPCC003
Matrix: WQ	
Collect Date: 03-FEB-25 17:55	
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"												
Chloride	U	ND	0.0670	0.200	mg/L		1	TXT1	02/07/25	0253	2746014	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	1306	2746476	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals** "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/16/25	1926	2745716	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0242	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			RR4	02/07/25	1151	2746604	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745715
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746475

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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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1-EB-01 Project: GPCC01924
Sample ID: 707453013 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	EPA 300.0											
2	SW846 7470A											
3	SW846 3005A/6020B											
4	SM 2540C											

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: 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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1-EB-02	Project: GPCC01924
Sample ID: 707453014	Client ID: GPCC003
Matrix: WQ	
Collect Date: 04-FEB-25 10:00	
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"												
Chloride	U	ND	0.0670	0.200	mg/L		1	TXT1	02/07/25	0324	2746014	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	1308	2746476	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals** "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/16/25	1929	2745716	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron	J	0.00963	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	6.00	2.38	10.0	mg/L			RR4	02/11/25	1444	2748244	4

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745715
SW846 7470A Prep	EPA 7470A Mercury Prep Liquid	JM13	02/07/25	0750	2746475

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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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1-FD-01	Project: GPCC01924
Sample ID: 707453015	Client ID: GPCC003
Matrix: WQ	
Collect Date: 03-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		54.4	13.3	40.0	mg/L		100	TXT1	02/07/25	0458	2746014	1
Chloride		2.20	0.0670	0.200	mg/L		1	TXT1	02/07/25	1943	2746014	2
Fluoride		0.213	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	1310	2746476	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals** "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/16/25	1932	2745716	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0502	0.000670	0.00400	mg/L	1.00	1					
Beryllium		0.00165	0.000200	0.000500	mg/L	1.00	1					
Boron		0.111	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium		15.6	0.0800	0.200	mg/L	1.00	1					
Chromium	J	0.00390	0.00300	0.0100	mg/L	1.00	1					
Cobalt		0.00501	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00915	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	J	0.00208	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					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		148	2.38	10.0	mg/L			RR4	02/07/25	1151	2746604	5

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	2746475
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745715

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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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1-FD-02	Project: GPCC01924
Sample ID: 707453016	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		650	13.3	40.0	mg/L		100	TXT1	02/07/25	0530	2746014	1
Chloride		3.20	0.134	0.400	mg/L		2	TXT1	02/07/25	2014	2746014	2
Fluoride		0.356	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	1311	2746476	3
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals** "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/16/25	1935	2745716	4
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium		0.0347	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Cadmium	J	0.000359	0.000300	0.00100	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	J	0.000837	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	J	0.00337	0.00300	0.0100	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		3.18	0.260	0.750	mg/L	1.00	50	PRB	02/18/25	2021	2745716	5
Calcium		314	4.00	10.0	mg/L	1.00	50					
Molybdenum		0.718	0.0100	0.0500	mg/L	1.00	50					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids		2640	4.76	20.0	mg/L			RR4	02/10/25	1639	2747237	6

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	2746475
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745715

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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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1-FD-02

Project: GPCC01924

Sample ID: 707453016

Client ID: GPCC003

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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The following Analytical Methods were performed:

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

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: 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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1-FB-01	Project: GPCC01924
Sample ID: 707453017	Client ID: GPCC003
Matrix: WQ	
Collect Date: 04-FEB-25 10:40	
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	TXT1	02/07/25	0601	2746014	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	1313	2746476	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals** "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/16/25	1937	2745716	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.117	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	J	0.000296	0.000200	0.00100	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					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			RR4	02/10/25	1236	2747234	4

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	2746475
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745715

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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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1-FB-01 Project: GPCC01924
Sample ID: 707453017 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	EPA 300.0											
2	SW846 7470A											
3	SW846 3005A/6020B											
4	SM 2540C											

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: 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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1-FB-02	Project: GPCC01924
Sample ID: 707453018	Client ID: GPCC003
Matrix: WQ	
Collect Date: 03-FEB-25 16:53	
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	TXT1	02/07/25	0632	2746014	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	1315	2746476	2
Metals Analysis-ICP-MS												
SW846 3005A/6020B Total Metals** "As Received"												
Antimony	U	ND	0.00100	0.00300	mg/L	1.00	1	PRB	02/16/25	1940	2745716	3
Arsenic	U	ND	0.00200	0.00500	mg/L	1.00	1					
Barium	U	ND	0.000670	0.00400	mg/L	1.00	1					
Beryllium	U	ND	0.000200	0.000500	mg/L	1.00	1					
Boron		0.0373	0.00520	0.0150	mg/L	1.00	1					
Cadmium	U	ND	0.000300	0.00100	mg/L	1.00	1					
Calcium	U	ND	0.0800	0.200	mg/L	1.00	1					
Chromium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Cobalt	U	ND	0.000300	0.00100	mg/L	1.00	1					
Lead	U	ND	0.000500	0.00200	mg/L	1.00	1					
Lithium	U	ND	0.00300	0.0100	mg/L	1.00	1					
Molybdenum	U	ND	0.000200	0.00100	mg/L	1.00	1					
Selenium	U	ND	0.00150	0.00500	mg/L	1.00	1					
Silver	U	ND	0.000300	0.00100	mg/L	1.00	1					
Thallium	U	ND	0.000600	0.00200	mg/L	1.00	1					
Solids Analysis												
SM2540C Dissolved Solids "As Received"												
Total Dissolved Solids	J	9.00	2.38	10.0	mg/L			RR4	02/07/25	1151	2746604	4

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	2746475
SW846 3005A	ICP-MS 3005A PREP	TB2	02/06/25	1505	2745715

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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 Compliance Plant Arkwright Ash Pond 1-Total Metals**

Client Sample ID: ARK-AP1-FB-02

Project: GPCC01924

Sample ID: 707453018

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	EPA 300.0										
2	SW846 7470A										
3	SW846 3005A/6020B										
4	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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QC Summary

Report Date: May 14, 2025

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

Contact: Joju Abraham

Workorder: 707453

Paramname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2746014										
QC1205997735	707453001	DUP									
Chloride		2.16		2.14	mg/L	0.717		(0%-20%)	TXT1	02/07/25	07:35
Fluoride		0.201		0.200	mg/L	0.349	^	(+/-0.100)			
Sulfate		52.5		55.2	mg/L	5.03	^	(+/-40.0)		02/06/25	17:59
QC1205997737	707453011	DUP									
Chloride		6.52		6.51	mg/L	0.0645		(0%-20%)		02/07/25	17:06
Fluoride		0.415		0.423	mg/L	1.81	^	(+/-0.200)			
Sulfate		194		191	mg/L	1.57	^	(+/-40.0)		02/07/25	01:19
QC1205997734	LCS										
Chloride	5.00			4.74	mg/L			94.8 (90%-110%)		02/06/25	16:57
Fluoride	2.50			2.42	mg/L			96.7 (90%-110%)			
Sulfate	10.0			9.56	mg/L			95.6 (90%-110%)			
QC1205997733	MB										
Chloride			U	ND	mg/L					02/06/25	16:25
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						

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QC Summary

Workorder: 707453

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2746014										
QC1205997736	707453001	PS									
Chloride	5.00	2.16		7.03	mg/L		97.5	(90%-110%)	TXT1	02/07/25	08:07
Fluoride	2.50	0.201		2.67	mg/L		98.7	(90%-110%)			
Sulfate	10.0	0.525		9.67	mg/L		91.5	(90%-110%)		02/06/25	18:31
 QC1205997738 707453011 PS											
Chloride	5.00	3.26		8.24	mg/L		99.7	(90%-110%)		02/07/25	17:37
Fluoride	2.50	0.208		2.57	mg/L		94.5	(90%-110%)			
Sulfate	10.0	1.94		11.2	mg/L		93.1	(90%-110%)		02/07/25	01:50
 Metals Analysis - ICPMS											
Batch	2745716										
QC1205997108	LCS										
Antimony	0.0500			0.0490	mg/L		98	(80%-120%)	PRB	02/16/25	18:25
Arsenic	0.0500			0.0490	mg/L		98.1	(80%-120%)			
Barium	0.0500			0.0514	mg/L		103	(80%-120%)			
Beryllium	0.0500			0.0556	mg/L		111	(80%-120%)			
Boron	0.100			0.109	mg/L		109	(80%-120%)			
Cadmium	0.0500			0.0515	mg/L		103	(80%-120%)			
Calcium	2.00			2.15	mg/L		107	(80%-120%)			

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QC Summary

Workorder: 707453

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2745716										
Chromium	0.0500			0.0488	mg/L		97.5	(80%-120%)	PRB	02/16/25	18:25
Cobalt	0.0500			0.0479	mg/L		95.8	(80%-120%)			
Lead	0.0500			0.0517	mg/L		103	(80%-120%)			
Lithium	0.0500			0.0532	mg/L		106	(80%-120%)			
Molybdenum	0.0500			0.0522	mg/L		104	(80%-120%)			
Selenium	0.0500			0.0481	mg/L		96.3	(80%-120%)			
Silver	0.0500			0.0531	mg/L		106	(80%-120%)			
Thallium	0.0500			0.0491	mg/L		98.3	(80%-120%)			
QC1205997107	MB										
Antimony			U	ND	mg/L					02/16/25	18:23
Arsenic			U	ND	mg/L						
Barium			U	ND	mg/L						
Beryllium			U	ND	mg/L						
Boron			U	ND	mg/L						
Cadmium			U	ND	mg/L						

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QC Summary

Workorder: 707453

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2745716										
Calcium			U	ND	mg/L				PRB	02/16/25	18:23
Chromium			U	ND	mg/L						
Cobalt			U	ND	mg/L						
Lead			U	ND	mg/L						
Lithium			U	ND	mg/L						
Molybdenum			U	ND	mg/L						
Selenium			U	ND	mg/L						
Silver			U	ND	mg/L						
Thallium			U	ND	mg/L						
QC1205997109 707453001 MS											
Antimony	0.0500	U	ND	0.0482	mg/L		96.3	(75%-125%)		02/16/25	18:31
Arsenic	0.0500	U	ND	0.0493	mg/L		96.3	(75%-125%)			
Barium	0.0500		0.0523	0.101	mg/L		96.7	(75%-125%)			
Beryllium	0.0500		0.00169	0.0578	mg/L		112	(75%-125%)			
Boron	0.100		0.104	0.214	mg/L		110	(75%-125%)			

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QC Summary

Workorder: 707453

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2745716										
Cadmium	0.0500	U	ND	0.0510	mg/L		102	(75%-125%)	PRB	02/16/25	18:31
Calcium	2.00		15.5	17.8	mg/L		N/A	(75%-125%)			
Chromium	0.0500	J	0.00393	0.0512	mg/L		94.6	(75%-125%)			
Cobalt	0.0500		0.00472	0.0516	mg/L		93.7	(75%-125%)			
Lead	0.0500	U	ND	0.0509	mg/L		102	(75%-125%)			
Lithium	0.0500	J	0.00946	0.0628	mg/L		107	(75%-125%)			
Molybdenum	0.0500	U	ND	0.0531	mg/L		106	(75%-125%)			
Selenium	0.0500	J	0.00268	0.0498	mg/L		94.2	(75%-125%)			
Silver	0.0500	U	ND	0.0521	mg/L		104	(75%-125%)			
Thallium	0.0500	U	ND	0.0482	mg/L		96.4	(75%-125%)			
QC1205997110	707453001	MSD									
Antimony	0.0500	U	ND	0.0494	mg/L	2.46	98.7	(0%-20%)		02/16/25	18:34
Arsenic	0.0500	U	ND	0.0491	mg/L	0.5	95.8	(0%-20%)			
Barium	0.0500		0.0523	0.104	mg/L	3.31	103	(0%-20%)			
Beryllium	0.0500		0.00169	0.0573	mg/L	0.938	111	(0%-20%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2745716										
Boron	0.100	0.104		0.218	mg/L	2.07	114	(0%-20%)	PRB	02/16/25	18:34
Cadmium	0.0500 U	ND		0.0517	mg/L	1.35	103	(0%-20%)			
Calcium	2.00	15.5		17.8	mg/L	0.0708	N/A	(0%-20%)			
Chromium	0.0500 J	0.00393		0.0512	mg/L	0.0488	94.6	(0%-20%)			
Cobalt	0.0500	0.00472		0.0512	mg/L	0.673	93	(0%-20%)			
Lead	0.0500 U	ND		0.0528	mg/L	3.5	106	(0%-20%)			
Lithium	0.0500 J	0.00946		0.0642	mg/L	2.19	109	(0%-20%)			
Molybdenum	0.0500 U	ND		0.0544	mg/L	2.51	109	(0%-20%)			
Selenium	0.0500 J	0.00268		0.0495	mg/L	0.552	93.6	(0%-20%)			
Silver	0.0500 U	ND		0.0537	mg/L	3.04	107	(0%-20%)			
Thallium	0.0500 U	ND		0.0499	mg/L	3.45	99.7	(0%-20%)			
QC1205997111 707453001 SDILT											
Antimony	U	ND	U	ND	ug/L	N/A		(0%-20%)		02/16/25	18:40
Arsenic	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Barium		52.3		10.1	ug/L	3.41		(0%-20%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch	2745716										
Beryllium		1.69	J	0.270	ug/L	20.3		(0%-20%)	PRB	02/16/25	18:40
Boron		104		28.2	ug/L	35.9		(0%-20%)			
Cadmium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Calcium		15500		3100	ug/L	.232		(0%-20%)			
Chromium	J	3.93	U	ND	ug/L	N/A		(0%-20%)			
Cobalt		4.72	J	0.941	ug/L	.402		(0%-20%)			
Lead	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Lithium	J	9.46	U	ND	ug/L	N/A		(0%-20%)			
Molybdenum	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Selenium	J	2.68	U	ND	ug/L	N/A		(0%-20%)			
Silver	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Thallium	U	ND	U	ND	ug/L	N/A		(0%-20%)			
Metals Analysis-Mercury											
Batch	2746476										
QC1205998418	707589001 DUP										
Mercury	U	ND	U	ND	mg/L	N/A			JP2	02/10/25	13:18

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QC Summary

Workorder: 707453

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis-Mercury											
Batch	2746476										
QC1205998417	LCS										
Mercury	0.00200			0.00220	mg/L		110	(80%-120%)	JP2	02/10/25	12:29
QC1205998416	MB										
Mercury			U	ND	mg/L					02/10/25	12:28
QC1205998419	707589001	MS									
Mercury	0.00200	U	ND	0.00195	mg/L		97.3	(75%-125%)		02/10/25	13:23
QC1205998420	707589001	SDILT									
Mercury		U	ND	U	ND	ug/L	N/A	(0%-10%)		02/10/25	13:24
Solids Analysis											
Batch	2746602										
QC1205998713	707075001	DUP									
Total Dissolved Solids			404	403	mg/L	0.248		(0%-5%)	RR4	02/07/25	13:46
QC1205998712	LCS										
Total Dissolved Solids	300			285	mg/L		95	(95%-105%)		02/07/25	13:46
QC1205998711	MB										
Total Dissolved Solids			U	ND	mg/L					02/07/25	13:46
Batch	2746604										
QC1205998723	707211001	DUP									
Total Dissolved Solids		U	ND	J	4.00	mg/L	200		RR4	02/07/25	11:51
QC1205998722	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		02/07/25	11:51
QC1205998721	MB										
Total Dissolved Solids			U	ND	mg/L					02/07/25	11:51

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Solids Analysis											
Batch	2747234										
QC1205999858	707303001	DUP									
Total Dissolved Solids			788	774	mg/L	1.79		(0%-5%)	RR4	02/10/25	12:36
QC1205999857	LCS										
Total Dissolved Solids	300			294	mg/L		98	(95%-105%)		02/10/25	12:36
QC1205999856	MB										
Total Dissolved Solids			U	ND	mg/L					02/10/25	12:36
Batch	2747237										
QC1205999868	707364001	DUP									
Total Dissolved Solids			548	552	mg/L	0.727		(0%-5%)	RR4	02/10/25	16:39
QC1205999867	LCS										
Total Dissolved Solids	300			289	mg/L		96.3	(95%-105%)		02/10/25	16:39
QC1205999866	MB										
Total Dissolved Solids			U	ND	mg/L					02/10/25	16:39
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

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

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QC Summary

Workorder: 707453

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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
Z												Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
d												5-day BOD--The 2:1 depletion requirement was not met for this sample
^												RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
N/A												RPD or %Recovery limits do not apply.
ND												Analyte concentration is not detected above the detection limit
E												%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
NJ												Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
E												General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
Q												One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
FB												Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies
N1												See case narrative
Y												Other specific qualifiers were required to properly define the results. Consult case narrative.
R												Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
B												The target analyte was detected in the associated blank.
e												5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
x												Subaliquot was taken. See Case Narrative for details.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

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

**Technical Case Narrative
Georgia Power Company
SDG #: 707453**

Metals

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3005A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2745716

Preparation Method: SW846 3005A

Preparation Procedure: GL-MA-E-006 REV# 15

Preparation Batch: 2745715

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
707453001	ARK-APIGWA-1
707453002	ARK-APIGWA-2
707453003	ARK-APIPZ-1
707453004	ARK-APIPZ-2
707453005	ARK-APIPZ-3
707453006	ARK-APIPZ-4
707453007	ARK-APIPZ-5
707453008	ARK-APIPZ-7
707453009	ARK-APIPZ-8
707453010	ARK-APIPZ-9
707453011	ARK-APIPZ-10
707453012	ARK-APIPZ-11
707453013	ARK-API-EB-01
707453014	ARK-API-EB-02
707453015	ARK-API-FD-01
707453016	ARK-API-FD-02
707453017	ARK-API-FB-01
707453018	ARK-API-FB-02
1205997107	Method Blank (MB)ICP-MS
1205997108	Laboratory Control Sample (LCS)
1205997111	707453001(ARK-APIGWA-1L) Serial Dilution (SD)
1205997109	707453001(ARK-APIGWA-1S) Matrix Spike (MS)
1205997110	707453001(ARK-APIGWA-1SD) Matrix Spike Duplicate (MSD)

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

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

CRDL/PQL Requirements

The CRDL standard recoveries for SW846 6020B met the advisory control limits with the exception of calcium.

Client sample concentrations were less than the MDL or greater than two times the CRDL; therefore the data were not adversely affected.

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Samples 707453003 (ARK-AP1PZ-1), 707453004 (ARK-AP1PZ-2), 707453005 (ARK-AP1PZ-3), 707453006 (ARK-AP1PZ-4), 707453007 (ARK-AP1PZ-5), 707453008 (ARK-AP1PZ-7), 707453009 (ARK-AP1PZ-8), 707453010 (ARK-AP1PZ-9), 707453011 (ARK-AP1PZ-10) and 707453016 (ARK-AP1-FD-02) were diluted to ensure that the analyte concentrations were within the linear calibration range of the instrument.

Analyte	707453									
	003	004	005	006	007	008	009	010	011	016
Boron	5X	5X	20X	25X	100X	50X	20X	10X	5X	50X
Calcium	5X	5X	20X	25X	100X	50X	20X	10X	5X	50X
Cobalt	1X	1X	1X	1X	1X	1X	1X	10X	1X	1X
Lithium	1X	1X	1X	1X	1X	1X	1X	10X	1X	1X
Molybdenum	1X	1X	1X	1X	1X	1X	1X	1X	1X	50X

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: SW846 7470A

Analytical Procedure: GL-MA-E-010 REV# 41

Analytical Batch: 2746476

Preparation Method: SW846 7470A Prep

Preparation Procedure: GL-MA-E-010 REV# 41

Preparation Batch: 2746475

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
707453001	ARK-AP1GWA-1
707453002	ARK-AP1GWA-2
707453003	ARK-AP1PZ-1
707453004	ARK-AP1PZ-2
707453005	ARK-AP1PZ-3
707453006	ARK-AP1PZ-4
707453007	ARK-AP1PZ-5
707453008	ARK-AP1PZ-7
707453009	ARK-AP1PZ-8
707453010	ARK-AP1PZ-9
707453011	ARK-AP1PZ-10
707453012	ARK-AP1PZ-11
707453013	ARK-AP1-EB-01
707453014	ARK-AP1-EB-02

707453015	ARK-API-FD-01
707453016	ARK-API-FD-02
707453017	ARK-API-FB-01
707453018	ARK-API-FB-02
1205998416	Method Blank (MB)CVAA
1205998417	Laboratory Control Sample (LCS)
1205998420	707589001(NonSDGL) Serial Dilution (SD)
1205998418	707589001(NonSDGD) Sample Duplicate (DUP)
1205998419	707589001(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: 2746014

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
707453001	ARK-APIGWA-1
707453002	ARK-APIGWA-2
707453003	ARK-APIPZ-1
707453004	ARK-APIPZ-2
707453005	ARK-APIPZ-3
707453006	ARK-APIPZ-4
707453007	ARK-APIPZ-5
707453008	ARK-APIPZ-7
707453009	ARK-APIPZ-8
707453010	ARK-APIPZ-9
707453011	ARK-APIPZ-10
707453012	ARK-APIPZ-11
707453013	ARK-API-EB-01
707453014	ARK-API-EB-02
707453015	ARK-API-FD-01
707453016	ARK-API-FD-02
707453017	ARK-API-FB-01
707453018	ARK-API-FB-02
1205997733	Method Blank (MB)
1205997734	Laboratory Control Sample (LCS)
1205997735	707453001(ARK-APIGWA-1) Sample Duplicate (DUP)
1205997736	707453001(ARK-APIGWA-1) Post Spike (PS)
1205997737	707453011(ARK-APIPZ-10) Sample Duplicate (DUP)
1205997738	707453011(ARK-APIPZ-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 1205997735 (ARK-AP1GWA-1DUP), 1205997736 (ARK-AP1GWA-1PS), 1205997737 (ARK-AP1PZ-10DUP), 1205997738 (ARK-AP1PZ-10PS), 707453001 (ARK-AP1GWA-1), 707453003 (ARK-AP1PZ-1), 707453004 (ARK-AP1PZ-2), 707453005 (ARK-AP1PZ-3), 707453006 (ARK-AP1PZ-4), 707453007 (ARK-AP1PZ-5), 707453008 (ARK-AP1PZ-7), 707453009 (ARK-AP1PZ-8), 707453010 (ARK-AP1PZ-9), 707453011 (ARK-AP1PZ-10), 707453012 (ARK-AP1PZ-11), 707453015 (ARK-AP1-FD-01) and 707453016 (ARK-AP1-FD-02) were diluted because target analyte concentrations exceeded the calibration range. Samples 1205997737 (ARK-AP1PZ-10DUP), 1205997738 (ARK-AP1PZ-10PS), 707453004 (ARK-AP1PZ-2), 707453007 (ARK-AP1PZ-5), 707453008 (ARK-AP1PZ-7), 707453009 (ARK-AP1PZ-8), 707453010 (ARK-AP1PZ-9) and 707453011 (ARK-AP1PZ-10) were diluted to minimize matrix effects on instrument performance. Samples 1205997735 (ARK-AP1GWA-1DUP), 1205997736 (ARK-AP1GWA-1PS), 1205997737 (ARK-AP1PZ-10DUP), 1205997738 (ARK-AP1PZ-10PS), 707453001 (ARK-AP1GWA-1), 707453002 (ARK-AP1GWA-2), 707453003 (ARK-AP1PZ-1), 707453004 (ARK-AP1PZ-2), 707453005 (ARK-AP1PZ-3), 707453006 (ARK-AP1PZ-4), 707453007 (ARK-AP1PZ-5), 707453008 (ARK-AP1PZ-7), 707453009 (ARK-AP1PZ-8), 707453010 (ARK-AP1PZ-9), 707453011 (ARK-AP1PZ-10), 707453012 (ARK-AP1PZ-11), 707453015 (ARK-AP1-FD-01) and 707453016 (ARK-AP1-FD-02) were diluted based on historical data. Sample was initially diluted based on historical data. Based on initial results, sample was re-run undiluted. 707453002 (ARK-AP1GWA-2). 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	707453									
	001	003	004	005	006	007	008	009	010	011
Chloride	1X	1X	2X	5X	5X	5X	5X	2X	2X	2X
Fluoride	1X	1X	2X	5X	5X	5X	5X	2X	2X	2X
Sulfate	100X	100X	100X	100X	100X	200X	100X	100X	100X	100X

Analyte	707453		
	012	015	016
Chloride	1X	1X	2X
Fluoride	1X	1X	2X
Sulfate	100X	100X	100X

Miscellaneous Information

Manual Integrations

Samples 1205997735 (ARK-AP1GWA-1DUP), 1205997736 (ARK-AP1GWA-1PS), 1205997737 (ARK-AP1PZ-10DUP), 1205997738 (ARK-AP1PZ-10PS), 707453001 (ARK-AP1GWA-1), 707453002 (ARK-AP1GWA-2), 707453003 (ARK-AP1PZ-1), 707453004 (ARK-AP1PZ-2), 707453007 (ARK-AP1PZ-5), 707453009 (ARK-AP1PZ-8), 707453010 (ARK-AP1PZ-9), 707453011 (ARK-AP1PZ-10), 707453012 (ARK-AP1PZ-11), 707453015 (ARK-AP1-FD-01) and 707453016 (ARK-AP1-FD-02) 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: 2746602

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
707453001	ARK-AP1GWA-1
707453002	ARK-AP1GWA-2
707453003	ARK-AP1PZ-1
707453004	ARK-AP1PZ-2
707453006	ARK-AP1PZ-4
707453007	ARK-AP1PZ-5
707453008	ARK-AP1PZ-7
1205998711	Method Blank (MB)
1205998712	Laboratory Control Sample (LCS)
1205998713	707075001(NonSDG) Sample Duplicate (DUP)

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

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for approximate concentration prior to analysis. 707453004 (ARK-AP1PZ-2), 707453006 (ARK-AP1PZ-4), 707453007 (ARK-AP1PZ-5) and 707453008 (ARK-AP1PZ-7).

Product: Solids, Total Dissolved
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 22
Analytical Batch: 2746604

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
707453005	ARK-AP1PZ-3
707453009	ARK-AP1PZ-8
707453010	ARK-AP1PZ-9
707453011	ARK-AP1PZ-10
707453012	ARK-AP1PZ-11
707453013	ARK-AP1-EB-01
707453015	ARK-AP1-FD-01
707453018	ARK-AP1-FB-02
1205998721	Method Blank (MB)
1205998722	Laboratory Control Sample (LCS)
1205998723	707211001(NonSDG) Sample Duplicate (DUP)

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

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for approximate concentration prior to analysis. 707453005 (ARK-AP1PZ-3) and 707453009 (ARK-AP1PZ-8).

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 22

Analytical Batch: 2747234

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
707453017	ARK-AP1-FB-01
1205999856	Method Blank (MB)
1205999857	Laboratory Control Sample (LCS)
1205999858	707303001(NonSDG) Sample Duplicate (DUP)

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

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

A TDS meter was used to check the sample for approximate concentration prior to analysis. 1205999858 (Non SDG 707303001DUP).

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 22

Analytical Batch: 2747237

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
707453016	ARK-AP1-FD-02
1205999866	Method Blank (MB)
1205999867	Laboratory Control Sample (LCS)
1205999868	707364001(NonSDG) Sample Duplicate (DUP)

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

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

A TDS meter was used to check the samples for approximate concentration prior to analysis. 1205999868 (Non SDG 707364001DUP) and 707453016 (ARK-AP1-FD-02).

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).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
707453014	ARK-AP1-EB-02
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 sample for approximate concentration prior to analysis. 1206002064 (ARK-ARAMW-9DUP).

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

Page: 1 of 2
 Project #: 175569434
 GEL Quote #: 707453
 COC Number ID: 1 Sample Cooler(s): 6
 PO Number: GFC82177-0005
 Client Name: Georgia Power
 Project/Site Name: Plant Arkwright Ash Pond 1
 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@aiamec.com
 jennifer.kolbe@sstamec.com

GEL Laboratories, LLC
 Chemistry / Radiochemistry / Radiobiology / Specialty Analytics
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178
 GEL Work Order Number: 707454
 GEL Project Manager: Ailana Pinnick
 Phone: (937) 344-6533
 Fax: N/A

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hh:mm)	QC Code (e)	Field Filtered (f)	Sample Matrix (g)	Should this sample be considered:		Total number of containers	Sample Analysis Requested (h) (Fill in the number of containers for each test)					
						Yes, please supply isotope info.	(?) Known or possible hazards		Alkalinity (300.0 R.1.) see Additional Remarks	TDS (SM Method 2540)	Arsenic (Cl, M, Sulfide) (300.0 Rev. 2.1 1993)	RAID 226-228 Cmbd	Mercury (74703)	Pb-210/Mn-201 (60203)
ARK-APIGWA-1	02-03-25	1400	N	N	WG			6	X	X	X	X	X	
ARK-APIGWA-2	02-03-25	1405	N	N	WG			6	X	X	X	X	X	
ARK-APIPZ-1	02-03-25	1700	N	N	WG			6	X	X	X	X	X	
ARK-APIPZ-2	02-03-25	1605	N	N	WG			6	X	X	X	X	X	
ARK-APIPZ-3	02-04-25	0940	N	N	WG			6	X	X	X	X	X	
ARK-APIPZ-4	02-03-25	1800	N	N	WG			6	X	X	X	X	X	
ARK-APIPZ-5	02-03-25	1545	N	N	WG			6	X	X	X	X	X	
ARK-APIPZ-7	02-03-25	1725	N	N	WG			6	X	X	X	X	X	
ARK-APIPZ-8	02-04-25	1000	N	N	WG			6	X	X	X	X	X	
ARK-APIPZ-9	02-04-25	1050	N	N	WG			6	X	X	X	X	X	

Chain of Custody Signatures

Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
	Shirley	02/16/2025			2/16/25

Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 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: Eastern Pacific Central Mountain Other

For sample shipping and delivery details, see Sample Receipt & Review form (SRK)

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FB = 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, SY=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/470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/470A - 1).
 6.) Preservative Type: BA = Hydrochloric Acid, NI = Nitric Acid, SH = Sulfuric Acid, AA = Ascorbic Acid, SA = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, BX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards: FL = Flammable/Liquid, LW = Listed Waste, CO = Corrosive, RE = Reactive
 Listed Waste: (P,K,P and U-listed wastes), Waste code(s):
 RCRA Metals: AS = Arsenic, Hg = Mercury, Ba = Barium, Se = Selenium, Cd = Cadmium, Ag = Silver, Cr = Chromium, MR = Misc. RCRA metals
 PCB = Polychlorinated biphenyls
 TSCA Regulated
 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, old matrices, etc.)

2/17/2025

Page: 2 of 2
 Project # 175569434
 GEL Quote #: 1 Sample Cooler(s) 6
 PO Number: GPC82177-0005
 Client Name: Georgia Power
 Project/Site Name: Plant Arkwright Ash Pond 1
 Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
 Collected By: Devon Abran, Jacob Ashe, Jackson Bankston, Max Moore
 Sent Results To: jabraham@southernco.com EDD@slantec.com
 jennifer.kolbe@slantec.com

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
 Chain of Custody and Analytical Request
 GEL Project Manager: *Alaina Pinnick*
 Phone # 937-344-6533 Fax: N/A
 GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military (hhmm))	QC Code (6)	Field Filtered (6)	Sample Matrix (6)	Should this sample be considered:		Total number of containers	Sample Analysis Requested (6)						Preservative Type (6)	Comments (task code: ARK-CCR-ASSMT-2025S1)
						Yes, please supply isotopic info.	Radioactive (if possible)		Known or possible hazards	see Additional Remarks (300 R.1)	**Metals (602B)	Alkalinity (300 R.1)	TDS (RM Method 2540C)	Antons (Cl, Pt, Sulfide) (300 R.2, 1993)		
ARK-APIPZ-10	02-03-25	1540	N	N	WG			6	X	X	X	X	X	X		
ARK-APIPZ-11	02-03-25	1730	N	N	WG			6	X	X	X	X	X	X		
ARK-API-EB-01	02-03-25	1755	EB	N	WQ			6	X	X	X	X	X	X		
ARK-API-EB-02	02-04-25	1000	EB	N	WQ			6	X	X	X	X	X	X		
ARK-API-FD-01	02-05-25	NA	FD	N	WG			6	X	X	X	X	X	X		
ARK-API-FD-02	02-04-25	NA	FD	N	WG			6	X	X	X	X	X	X		
ARK-API-FB-01	02-04-25	1040	FB	N	WQ			6	X	X	X	X	X	X		
ARK-API-FB-02	02-03-25	1653	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
<i>[Signature]</i>	Shane	02/05/2025	<i>[Signature]</i>		2/13/25

Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 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: Eastern Pacific Central Mountain Other:
 TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surchage)

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. 82608, 60108/7470A) and number of containers provided for each (i.e. 82608 - 3, 60108/7470A - 1).
 6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, EX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
 7) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards: FL = Flammable/ignitable, LW = Listed Waste (F,K,P and U-listed wastes), CO = Corrosive, RE = Reactive
 RCRA Metals: As = Arsenic, Hg = Mercury, Ba = Barium, Se = Selenium, Cd = Cadmium, Ag = Silver, Cr = Chromium, MR = Misc. RCRA metals
 Pb = Lead
 TSCA Regulated PCB = Polychlorinated biphenyls
 Other: OT = Other / Unknown (i.e.: highflow 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, cold matrices, etc.)

[Signature] 2/17/2025



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

707343
707453 707454
707431 707433

Client: GPCC SDG/AR/COC/Work Order: _____ GEL PNI: _____

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 # 4-94 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	Comments
	<input checked="" type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
	<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
	<input checked="" type="checkbox"/>	COC notation on radioactive stickers on containers equal client designation
	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3
	<input checked="" type="checkbox"/>	If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other: _____
	<input checked="" type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		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)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Preservation Method: <u>Wet Ice</u> Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celsius
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		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.)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		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?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		IDs and tests affected: _____
8 Sample IDs on COC match IDs on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		IDs and containers affected: _____
9 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		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?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Circle Applicable: No container count on COC Missing Container (provide details) Other (describe) <u>NO# 707431</u> <u>ARK-AP2-FD-04 has dissolved metals not on coc</u>
11 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
12 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Circle Applicable: Not relinquished Other (describe)

Comments:
COOLER 11-1
COOLER 12-2

PM (or PMA) review: Initials AW Date FEB 07 2025
 Continuation Form Required when selected

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

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 1-Radiochemistry
Work Order: 707454

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):

<u>Laboratory ID</u>	<u>Client ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
707454001	ARK-AP1GWA-1	Ground Water	02/03/25 14:00	02/05/25 14:30
707454002	ARK-AP1GWA-2	Ground Water	02/03/25 14:05	02/05/25 14:30
707454003	ARK-AP1PZ-1	Ground Water	02/03/25 17:00	02/05/25 14:30
707454004	ARK-AP1PZ-2	Ground Water	02/03/25 16:05	02/05/25 14:30
707454005	ARK-AP1PZ-3	Ground Water	02/04/25 09:40	02/05/25 14:30
707454006	ARK-AP1PZ-4	Ground Water	02/03/25 18:00	02/05/25 14:30
707454007	ARK-AP1PZ-5	Ground Water	02/03/25 15:45	02/05/25 14:30
707454008	ARK-AP1PZ-7	Ground Water	02/03/25 17:25	02/05/25 14:30
707454009	ARK-AP1PZ-8	Ground Water	02/04/25 10:00	02/05/25 14:30
707454010	ARK-AP1PZ-9	Ground Water	02/04/25 10:50	02/05/25 14:30
707454011	ARK-AP1PZ-10	Ground Water	02/03/25 15:40	02/05/25 14:30
707454012	ARK-AP1PZ-11	Ground Water	02/03/25 17:30	02/05/25 14:30
707454013	ARK-AP1-EB-01	Water	02/03/25 17:55	02/05/25 14:30
707454014	ARK-AP1-EB-02	Water	02/04/25 10:00	02/05/25 14:30
707454015	ARK-AP1-FD-01	Water	02/03/25 12:00	02/05/25 14:30
707454016	ARK-AP1-FD-02	Water	02/04/25 12:00	02/05/25 14:30



707454017 ARK-AP1-FB-01 Water 02/04/25 10:40 02/05/25 14:30

707454018 ARK-AP1-FB-02 Water 02/03/25 16:53 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

<u>Method</u>	<u>Run Date ID</u>
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,

A handwritten signature in black ink, appearing to read "Kierra McKnight".

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: 707454 GEL Work Order: 707454

The Qualifiers in this report are defined as follows:

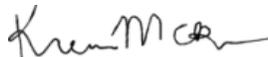
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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 Compliance Plant Arkwright Ash Pond 1-Radiochemistry

Client Sample ID: ARK-APIGWA-1
 Sample ID: 707454001
 Matrix: WG
 Collect Date: 03-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.00256	+/-0.719	1.40	+/-0.719	3.00	pCi/L			DH1	03/04/25	0957	2745805	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.639	+/-0.813	1.40	+/-0.819		pCi/L		1	NXL1	03/04/25	1701	2745864	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.637	+/-0.380	0.324	+/-0.393	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"	2745805	88.1	(15%-125%)

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

Column headers are defined as follows:

DF: Dilution Factor	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
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 Compliance Plant Arkwright Ash Pond 1-Radiochemistry

Client Sample ID: ARK-AP1GWA-2

Project: GPCC01924

Sample ID: 707454002

Client ID: GPCC003

Matrix: WG

Collect Date: 03-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.464	+/-1.14	2.02	+/-1.15	3.00	pCi/L			DH1	03/04/25	0957	2745805	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.464	+/-1.17	2.02	+/-1.18		pCi/L		1	NXL1	03/04/25	1701	2745864	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.000	+/-0.262	0.603	+/-0.262	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"	2745805	87.9	(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	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Atlanta, Georgia 30308

Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater Compliance Plant Arkwright Ash Pond 1-Radiochemistry

Client Sample ID: ARK-AP1PZ-1

Project: GPCC01924

Sample ID: 707454003

Client ID: GPCC003

Matrix: WG

Collect Date: 03-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	-0.439	+/-0.698	1.49	+/-0.699	3.00	pCi/L			DH1	03/04/25	1001	2745805	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.0270	+/-0.720	1.49	+/-0.720		pCi/L		1	NXL1	03/04/25	1701	2745864	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.0270	+/-0.176	0.429	+/-0.176	1.00	pCi/L			MJ2	03/04/25	0944	2745751	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"	2745805	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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Certificate of Analysis

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Atlanta, Georgia 30308

Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater Compliance Plant Arkwright Ash Pond 1-Radiochemistry

Client Sample ID: ARK-AP1PZ-2

Project: GPCC01924

Sample ID: 707454004

Client ID: GPCC003

Matrix: WG

Collect Date: 03-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	-0.704	+/-0.699	1.57	+/-0.699	3.00	pCi/L			DH1	03/04/25	1001	2745805	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.40	+/-0.925	1.57	+/-0.959		pCi/L		1	NXL1	03/04/25	1701	2745864	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.40	+/-0.605	0.448	+/-0.657	1.00	pCi/L			MJ2	03/04/25	0944	2745751	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"	2745805	84	(15%-125%)

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

Column headers are defined as follows:

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

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Atlanta, Georgia 30308

Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater Compliance Plant Arkwright Ash Pond 1-Radiochemistry

Client Sample ID: ARK-AP1PZ-3

Project: GPCC01924

Sample ID: 707454005

Client ID: GPCC003

Matrix: WG

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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.591	+/-0.762	1.30	+/-0.777	3.00	pCi/L			DH1	03/04/25	1001	2745805	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.76	+/-0.915	1.30	+/-0.965		pCi/L		1	NXL1	03/04/25	1701	2745864	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.17	+/-0.507	0.441	+/-0.573	1.00	pCi/L			MJ2	03/04/25	0944	2745751	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"	2745805	89.1	(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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Company : Georgia Power Company, Southern
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Atlanta, Georgia 30308

Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater Compliance Plant Arkwright Ash Pond 1-Radiochemistry

Client Sample ID: ARK-AP1PZ-4

Project: GPCC01924

Sample ID: 707454006

Client ID: GPCC003

Matrix: WG

Collect Date: 03-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.626	+/-0.930	1.61	+/-0.943	3.00	pCi/L			DH1	03/04/25	1001	2745805	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.27	+/-1.02	1.61	+/-1.04		pCi/L		1	NXL1	03/04/25	1701	2745864	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.641	+/-0.423	0.395	+/-0.448	1.00	pCi/L			MJ2	03/04/25	0944	2745751	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"	2745805	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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Certificate of Analysis

Company : Georgia Power Company, Southern
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Atlanta, Georgia 30308

Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater Compliance Plant Arkwright Ash Pond 1-Radiochemistry

Client Sample ID: ARK-AP1PZ-5

Project: GPCC01924

Sample ID: 707454007

Client ID: GPCC003

Matrix: WG

Collect Date: 03-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	-0.182	+/-1.02	1.96	+/-1.02	3.00	pCi/L			DH1	03/04/25	1001	2745805	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.08	+/-1.15	1.96	+/-1.17		pCi/L		1	NXL1	03/04/25	1701	2745864	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.08	+/-0.537	0.489	+/-0.560	1.00	pCi/L			MJ2	03/04/25	0944	2745751	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"	2745805	83.8	(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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| 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 Compliance Plant Arkwright Ash Pond 1-Radiochemistry

Client Sample ID: ARK-AP1PZ-7

Project: GPCC01924

Sample ID: 707454008

Client ID: GPCC003

Matrix: WG

Collect Date: 03-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.155	+/-0.770	1.45	+/-0.771	3.00	pCi/L			DH1	03/04/25	1001	2745805	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.511	+/-0.822	1.45	+/-0.825		pCi/L		1	NXL1	03/04/25	1701	2745864	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.356	+/-0.289	0.320	+/-0.294	1.00	pCi/L			MJ2	03/04/25	1021	2745751	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"	2745805	80.9	(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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| 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 Compliance Plant Arkwright Ash Pond 1-Radiochemistry

Client Sample ID: ARK-AP1PZ-8

Project: GPCC01924

Sample ID: 707454009

Client ID: GPCC003

Matrix: WG

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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.683	+/-1.30	2.26	+/-1.31	3.00	pCi/L			DH1	03/04/25	1001	2745805	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.966	+/-1.32	2.26	+/-1.33		pCi/L		1	NXL1	03/04/25	1701	2745864	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.282	+/-0.251	0.300	+/-0.258	1.00	pCi/L			MJ2	03/04/25	1021	2745751	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"	2745805	83.8	(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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Certificate of Analysis

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Atlanta, Georgia 30308

Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater Compliance Plant Arkwright Ash Pond 1-Radiochemistry

Client Sample ID: ARK-AP1PZ-9

Project: GPCC01924

Sample ID: 707454010

Client ID: GPCC003

Matrix: WG

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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		2.84	+/-1.23	1.70	+/-1.43	3.00	pCi/L			DH1	03/04/25	0957	2745805	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		3.76	+/-1.34	1.70	+/-1.53		pCi/L		1	NXL1	03/04/25	1701	2745864	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.924	+/-0.531	0.500	+/-0.551	1.00	pCi/L			MJ2	03/04/25	1021	2745751	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"	2745805	87.2	(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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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 Compliance Plant Arkwright Ash Pond 1-Radiochemistry

Client Sample ID: ARK-APIPZ-10
 Sample ID: 707454011
 Matrix: WG
 Collect Date: 03-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	-0.541	+/-1.04	2.02	+/-1.04	3.00	pCi/L			DH1	03/04/25	0957	2745805	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.509	+/-1.09	2.02	+/-1.09		pCi/L		1	NXL1	03/04/25	1701	2745864	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.509	+/-0.319	0.283	+/-0.330	1.00	pCi/L			MJ2	03/04/25	1021	2745751	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"	2745805	94.1	(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	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Company : Georgia Power Company, Southern
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Atlanta, Georgia 30308

Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater Compliance Plant Arkwright Ash Pond 1-Radiochemistry

Client Sample ID: ARK-AP1PZ-11

Project: GPCC01924

Sample ID: 707454012

Client ID: GPCC003

Matrix: WG

Collect Date: 03-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	-0.0670	+/-0.835	1.59	+/-0.835	3.00	pCi/L			DH1	03/04/25	0957	2745805	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.282	+/-0.892	1.59	+/-0.893		pCi/L		1	NXL1	03/04/25	1701	2745864	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.282	+/-0.313	0.491	+/-0.316	1.00	pCi/L			MJ2	03/04/25	1021	2745751	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"	2745805	95.2	(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	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Atlanta, Georgia 30308

Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater Compliance Plant Arkwright Ash Pond 1-Radiochemistry

Client Sample ID: ARK-AP1-EB-01

Project: GPCC01924

Sample ID: 707454013

Client ID: GPCC003

Matrix: WQ

Collect Date: 03-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.376	+/-0.695	1.24	+/-0.702	3.00	pCi/L			DH1	03/04/25	0957	2745805	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.425	+/-0.721	1.24	+/-0.728		pCi/L		1	NXL1	03/04/25	1701	2745864	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.0493	+/-0.193	0.429	+/-0.193	1.00	pCi/L			MJ2	03/04/25	1021	2745751	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"	2745805	88.5	(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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Certificate of Analysis

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Atlanta, Georgia 30308

Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater Compliance Plant Arkwright Ash Pond 1-Radiochemistry

Client Sample ID: ARK-AP1-EB-02

Project: GPCC01924

Sample ID: 707454014

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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.463	+/-0.859	1.52	+/-0.867	3.00	pCi/L			DH1	03/04/25	0957	2745805	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.682	+/-0.914	1.52	+/-0.922		pCi/L		1	NXL1	03/04/25	1701	2745864	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.218	+/-0.312	0.545	+/-0.314	1.00	pCi/L			MJ2	03/04/25	1021	2745751	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"	2745805	81.8	(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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| MDC: Minimum Detectable Concentration | |

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Certificate of Analysis

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Atlanta, Georgia 30308

Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater Compliance Plant Arkwright Ash Pond 1-Radiochemistry

Client Sample ID: ARK-AP1-FD-01

Project: GPCC01924

Sample ID: 707454015

Client ID: GPCC003

Matrix: WQ

Collect Date: 03-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.546	+/-0.845	1.47	+/-0.857	3.00	pCi/L			DH1	03/04/25	0957	2745805	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.45	+/-0.981	1.47	+/-1.00		pCi/L		1	NXL1	03/04/25	1701	2745864	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.899	+/-0.497	0.492	+/-0.516	1.00	pCi/L			MJ2	03/04/25	1021	2745751	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"	2745805	88	(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	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

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Atlanta, Georgia 30308

Report Date: March 4, 2025

Contact: Joju Abraham

Project: Arkwright CCR Groundwater Compliance Plant Arkwright Ash Pond 1-Radiochemistry

Client Sample ID: ARK-AP1-FD-02

Project: GPCC01924

Sample ID: 707454016

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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	1.06	+/-1.22	2.05	+/-1.25	3.00	pCi/L			DH1	03/04/25	0957	2745805	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	1.56	+/-1.27	2.05	+/-1.30		pCi/L		1	NXL1	03/04/25	1701	2745864	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.497	+/-0.351	0.388	+/-0.365	1.00	pCi/L			MJ2	03/04/25	1049	2745751	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"	2745805	92.3	(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 | Mtd.: Method |
| DL: Detection Limit | PF: Prep Factor |
| Lc/LC: Critical Level | RL: Reporting Limit |
| MDA: Minimum Detectable Activity | TPU: Total Propagated Uncertainty |
| 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 Compliance Plant Arkwright Ash Pond 1-Radiochemistry

Client Sample ID: ARK-AP1-FB-01

Project: GPCC01924

Sample ID: 707454017

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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228		1.99	+/-1.09	1.62	+/-1.20	3.00	pCi/L			DH1	03/04/25	0957	2745805	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		2.09	+/-1.11	1.62	+/-1.22		pCi/L		1	NXL1	03/04/25	1701	2745864	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.0972	+/-0.178	0.342	+/-0.179	1.00	pCi/L			MJ2	03/04/25	1049	2745751	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"	2745805	90	(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	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
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 Compliance Plant Arkwright Ash Pond 1-Radiochemistry

Client Sample ID: ARK-AP1-FB-02

Project: GPCC01924

Sample ID: 707454018

Client ID: GPCC003

Matrix: WQ

Collect Date: 03-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														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.101	+/-0.723	1.40	+/-0.723	3.00	pCi/L			DH1	03/04/25	0957	2745805	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum	U	0.332	+/-0.786	1.40	+/-0.787		pCi/L		1	NXL1	03/04/25	1701	2745864	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226	U	0.231	+/-0.310	0.523	+/-0.312	1.00	pCi/L			MJ2	03/04/25	1049	2745751	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"	2745805	74.8	(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	Mtd.: Method
DL: Detection Limit	PF: Prep Factor
Lc/LC: Critical Level	RL: Reporting Limit
MDA: Minimum Detectable Activity	TPU: Total Propagated Uncertainty
MDC: Minimum Detectable Concentration	

**Radiochemistry
Technical Case Narrative
Georgia Power Company
SDG #: 707454**

Product: Radium-226+Radium-228 Calculation

Analytical Method: Calculation

Analytical Procedure: GL-RAD-D-003 REV# 45

Analytical Batch: 2745864

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
707454001	ARK-APIGWA-1
707454002	ARK-APIGWA-2
707454003	ARK-APIPZ-1
707454004	ARK-APIPZ-2
707454005	ARK-APIPZ-3
707454006	ARK-APIPZ-4
707454007	ARK-APIPZ-5
707454008	ARK-APIPZ-7
707454009	ARK-APIPZ-8
707454010	ARK-APIPZ-9
707454011	ARK-APIPZ-10
707454012	ARK-APIPZ-11
707454013	ARK-API-EB-01
707454014	ARK-API-EB-02
707454015	ARK-API-FD-01
707454016	ARK-API-FD-02
707454017	ARK-API-FB-01
707454018	ARK-API-FB-02

Data Summary:

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

Product: GFPC Ra228, Liquid

Analytical Method: EPA 904.0/SW846 9320 Modified

Analytical Procedure: GL-RAD-A-063 REV# 5

Analytical Batch: 2745805

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
707454001	ARK-APIGWA-1
707454002	ARK-APIGWA-2
707454003	ARK-APIPZ-1
707454004	ARK-APIPZ-2

707454005	ARK-APIPZ-3
707454006	ARK-APIPZ-4
707454007	ARK-APIPZ-5
707454008	ARK-APIPZ-7
707454009	ARK-APIPZ-8
707454010	ARK-APIPZ-9
707454011	ARK-APIPZ-10
707454012	ARK-APIPZ-11
707454013	ARK-API-EB-01
707454014	ARK-API-EB-02
707454015	ARK-API-FD-01
707454016	ARK-API-FD-02
707454017	ARK-API-FB-01
707454018	ARK-API-FB-02
1205997323	Method Blank (MB)
1205997324	707454001(ARK-APIGWA-1) Sample Duplicate (DUP)
1205997325	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).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
707454001	ARK-APIGWA-1
707454002	ARK-APIGWA-2
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.

Product: Lucas Cell, Ra226, Liquid

Analytical Method: EPA 903.1 Modified

Analytical Procedure: GL-RAD-A-008 REV# 15

Analytical Batch: 2745751

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
707454003	ARK-AP1PZ-1
707454004	ARK-AP1PZ-2
707454005	ARK-AP1PZ-3
707454006	ARK-AP1PZ-4
707454007	ARK-AP1PZ-5
707454008	ARK-AP1PZ-7
707454009	ARK-AP1PZ-8
707454010	ARK-AP1PZ-9
707454011	ARK-AP1PZ-10
707454012	ARK-AP1PZ-11
707454013	ARK-AP1-EB-01
707454014	ARK-AP1-EB-02
707454015	ARK-AP1-FD-01
707454016	ARK-AP1-FD-02
707454017	ARK-AP1-FB-01
707454018	ARK-AP1-FB-02
1205997183	Method Blank (MB)
1205997184	707454003(ARK-AP1PZ-1) Sample Duplicate (DUP)
1205997185	707454003(ARK-AP1PZ-1) Matrix Spike (MS)
1205997186	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, 1205997185 (ARK-AP1PZ-1MS), aliquot was reduced to conserve sample volume.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL LABORATORIES LLC

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

QC Summary

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

Report Date: March 4, 2025
Page 1 of 3

Atlanta, Georgia

Contact: Joju Abraham

Workorder: 707454

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Gas Flow										
Batch	2745805									
QC1205997324	707454001 DUP									
Radium-228	U	0.00256	U	0.00778	pCi/L	0		N/A	DH1	03/04/2509:57
	Uncert:	+/-0.719		+/-0.785						
	TPU:	+/-0.719		+/-0.785						
QC1205997325	LCS									
Radium-228	84.2			67.4	pCi/L		80.1	(75%-125%)	DH1	03/04/2509:55
	Uncert:			+/-4.00						
	TPU:			+/-17.7						
QC1205997323	MB									
Radium-228			U	0.224	pCi/L				DH1	03/04/2509:57
	Uncert:			+/-1.02						
	TPU:			+/-1.03						
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						
Batch	2745751									
QC1205997184	707454003 DUP									
Radium-226	U	0.0270	U	0.183	pCi/L	0		N/A	MJ2	03/04/2510:49
	Uncert:	+/-0.176		+/-0.293						
	TPU:	+/-0.176		+/-0.296						
QC1205997186	LCS									
Radium-226	27.2			21.9	pCi/L		80.7	(75%-125%)	MJ2	03/04/2510:49
	Uncert:			+/-2.15						
	TPU:			+/-4.66						
QC1205997183	MB									
Radium-226			U	0.270	pCi/L				MJ2	03/04/2510:49

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QC Summary

Workorder: 707454

Page 2 of 3

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Ra-226										
Batch	2745751									
			Uncert:	+/-0.293						
			TPU:	+/-0.297						
QC1205997185	707454003	MS								
Radium-226	134	U	0.0270	131	pCi/L	97.8	(75%-125%)	MJ2	03/04/25	10:49
			Uncert:	+/-0.176						
			TPU:	+/-0.176						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- UI Gamma Spectroscopy--Uncertain identification
- BD Results are either below the MDC or tracer recovery is low
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- M M if above MDC and less than LLD
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- FA Failed analysis.
- UJ Gamma Spectroscopy--Uncertain identification
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
- 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.

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QC Summary

Workorder: 707454

Page 3 of 3

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

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

** Indicates analyte is a surrogate/tracer compound.

^ 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.

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

Page: 1 of 2
 Project # 175569434
 GEL Quote #: 707453
 COC Number: 01 Sample Cooler(s) 6
 PO Number: GPC82177-0005
 Client Name: Georgia Power
 Project/Site Name: Plant Arkwright Ash Pond 1
 Address: 241 Ralph McGill Blvd SE, Atlanta, GA 30308
 Collected By: Devon Abuan, Jacob Asfie, Jackson Bankston, Max Moore
 Send Results To: jbrabham@southemco.com EDD@stamtec.com
 jennifer.kolbe@stamtec.com
 GEL Project Manager: Alaina Pinnick
 Phone #: (937-344-6553) Fax: N/A
 GEL Laboratories, LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178
 Comments (task code):
 ARK-CCR-ASSMT-202551

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (w)	Field Filtered (y)	Sample Matrix (y)	Should this sample be considered:		Total number of containers		Sample Analysis Requested (y)		Preservative Type (y)
						Radioactive (if you, please supply isotope info.)	(?) Known or possible hazards	Alkalinity (300.0 R2.1) see Additional Remarks	TDS (SM Method 2540)	Antions (Cl, F, Sulfide) (300.0 Rev. 2.1 1993)	RAID 226-228 Chld	
ARK-APIGWA-1	02-03-25	1400	N	N	WG			6	X	X	X	
ARK-APIGWA-2	02-03-25	1405	N	N	WG			6	X	X	X	
ARK-APIPZ-1	02-03-25	1700	N	N	WG			6	X	X	X	
ARK-APIPZ-2	02-03-25	1605	N	N	WG			6	X	X	X	
ARK-APIPZ-3	02-04-25	0940	N	N	WG			6	X	X	X	
ARK-APIPZ-4	02-03-25	1800	N	N	WG			6	X	X	X	
ARK-APIPZ-5	02-03-25	1545	N	N	WG			6	X	X	X	
ARK-APIPZ-7	02-03-25	1725	N	N	WG			6	X	X	X	
ARK-APIPZ-8	02-04-25	1000	N	N	WG			6	X	X	X	
ARK-APIPZ-9	02-04-25	1050	N	N	WG			6	X	X	X	

Chain of Custody Signatures

Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
	Sam	02/15/2025		John	2/17/2025

Chain of Custody
 TAT Requested: Normal: X Rush: X
 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 Copter 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, MF=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Feet, N=Neck
 5.) Sample Analysis Requested: Analytical method requested (i.e. 81-60B, 601087-470A) and number of containers provided for each (i.e. 8250B - 3, 601087-470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, RX = Hexane, ST = Sodium Thiosulfate. If no preservative is added - leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards: FL = Flammable/Lightable
 FL = Flammable/Lightable
 LW = Listed Waste (F, K, P and U-listed wastes.)
 CO = Corrosive
 RE = Reactive
 TSCA Regulated PCB = Polychlorinated biphenyls
 RCRA Metals: Hg = Mercury
 As = Arsenic
 Ba = Barium
 Cd = Cadmium
 Cr = Chromium
 MR = Misc. RCRA metals
 Pb = Lead
 Listed Waste
 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, cold matrices, etc.)

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

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (b)	Field Filtered (c)	Sample Matrix (d)	Radioactive (f) 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) (300.0 Rev. 2.1 1993)	Amions (Cl, F, Sulfate)	Mercury (7470B)	Fe2+ / Mn2+ (6020B) Field Filtered	<-- Preservative Type (6)	Comments (task_code: ARK-CCR-ASSMT-202551)
ARK-APIGWA-1	02-03-25	1400	N	N	WG			X	X	X	X	X	X	X			
ARK-APIGWA-2	02-03-25	1405	N	N	WG			X	X	X	X	X	X	X			
ARK-APIPZ-1	02-03-25	1700	N	N	WG			X	X	X	X	X	X	X			
ARK-APIPZ-2	02-03-25	1605	N	N	WG			X	X	X	X	X	X	X			
ARK-APIPZ-3	02-04-25	0940	N	N	WG			X	X	X	X	X	X	X			
ARK-APIPZ-4	02-03-25	1800	N	N	WG			X	X	X	X	X	X	X			
ARK-APIPZ-5	02-03-25	1545	N	N	WG			X	X	X	X	X	X	X			
ARK-APIPZ-7	02-03-25	1725	N	N	WG			X	X	X	X	X	X	X			
ARK-APIPZ-8	02-04-25	1000	N	N	WG			X	X	X	X	X	X	X			
ARK-APIPZ-9	02-04-25	1050	N	N	WG			X	X	X	X	X	X	X			

Chain of Custody Signatures

Relinquished By (Signed)	Print Name	Date	Received by (signed)	Print Name	Date
	Stanton	02/15/2025		Stanton	02/15/2025

TAT Requested: Normal: X Rush: X 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	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F, K, P and U-listed wastes.) Waste code(s):	OT = Other / Unknown (i.e.: High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:

TSCA Regulated
PCB = Polychlorinated biphenyls

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.)

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (e)	Field Filtered (f)	Sample Matrix (g)	Radioactive (If isotopic info) Yes, please supply (7) Known or possible Hazards	Should this sample be considered:	Total number of containers	*Metals (6020B)	**Metals (6020B)	Alkalinity (300.0 R2.1) see Additional Remarks	TPS (SM Method 2540C) (300.0 Rev. 2.1 1993)	Antions (Cl, F, Sulfate) (RAD 226-228 Cmbd)	Mercury (7470B)	Fe2+/Mn2+ (6020B) Field Filtered	Preservative Type (6)	Comments (task code: ARK-CCR-ASSMT-2025S1)
ARK-APIPZ-10	02-03-25	1540	N	N	WG				X	X	X	X	X	X			
ARK-APIPZ-11	02-03-25	1730	N	N	WG				X	X	X	X	X	X			
ARK-API-EB-01	02-03-25	1755	EB	N	WQ				X	X	X	X	X	X			
ARK-API-EB-02	02-04-25	1000	EB	N	WQ				X	X	X	X	X	X			
ARK-API-FD-01	02-03-25	NA	FD	N	WQ				X	X	X	X	X	X			
ARK-API-FD-02	02-04-25	NA	FD	N	WQ				X	X	X	X	X	X			
ARK-API-FB-01	02-04-25	1040	FB	N	WQ				X	X	X	X	X	X			
ARK-API-FB-02	02-03-25	1653	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
	Stance	02/05/2025		2/5/25	2/5/25
				2/5/25	1430

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

Fax Results: Yes No

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: 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: 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=Faecal, 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	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F, K, P and U-listed wastes.) Waste code(s):	OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description:

TSCA Regulated
PCB = Polychlorinated biphenyls

MR = Misc. RCRA metals

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.)

SAMPLE RECEIPT & REVIEW FORM

707343
707453 707454
707431 707433

Client: GPCC SDG/AR/COC/Work Order: _____ GEL PMI: _____
 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.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
<input type="checkbox"/>	<input checked="" type="checkbox"/>	B) Did the client designate the samples are to be received as radioactive? <i>COC notation on radioactive stickers on containers equal client designation.</i>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	C) Did the RSO classify the samples as radioactive? Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3
<input type="checkbox"/>	<input checked="" type="checkbox"/>	D) Are there any sample hazards to document? If yes, select Hazards below. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Corrosive Other: _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Direct client dropoff Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry Ice None Other: *all temperatures recorded next to tracking numbers are in Celsius
4 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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.)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Bincors 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?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IDs and tests affected: _____
8 Sample IDs on COC match IDs on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IDs and containers affected: _____
9 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Missing Container (provide details) Other (describe) <u>W# 707431</u> <u>ARK-AP2-FD-04 has dissolved metals not on coc</u>
11 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments:
Cooler 11-1
Cooler 12-2

PM (or PMA) review: Initials AW 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



March 04, 2025

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778981

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778981

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

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SAMPLE SUMMARY

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778981

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92778981001	ARK-BC-0.3	Water	02/10/25 10:29	02/11/25 14:02
92778981002	ARK-BC-0.1	Water	02/10/25 10:48	02/11/25 14:02
92778981003	ARK-OR-0.8	Water	02/11/25 09:20	02/11/25 14:02
92778981004	ARK-OR-0.1	Water	02/11/25 10:30	02/11/25 14:02
92778981005	ARK-OR-0.3	Water	02/11/25 10:05	02/11/25 14:02
92778981006	ARK-OR+0.25	Water	02/11/25 10:50	02/11/25 14:02

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SAMPLE ANALYTE COUNT

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778981

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92778981001	ARK-BC-0.3	EPA 6010D	MGW	5	PASI-A
		EPA 6020B	DBB1	12	PASI-A
		EPA 7470A	TMM	1	PASI-A
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92778981002	ARK-BC-0.1	EPA 6010D	MGW	5	PASI-A
		EPA 6020B	DBB1	12	PASI-A
		EPA 7470A	TMM	1	PASI-A
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92778981003	ARK-OR-0.8	EPA 6010D	MGW	5	PASI-A
		EPA 6020B	DBB1	12	PASI-A
		EPA 7470A	TMM	1	PASI-A
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92778981004	ARK-OR-0.1	EPA 6010D	MGW	5	PASI-A
		EPA 6020B	DBB1	12	PASI-A
		EPA 7470A	TMM	1	PASI-A
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92778981005	ARK-OR-0.3	EPA 6010D	MGW	5	PASI-A
		EPA 6020B	DBB1	12	PASI-A
		EPA 7470A	TMM	1	PASI-A
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92778981006	ARK-OR+0.25	EPA 6010D	MGW	5	PASI-A
		EPA 6020B	DBB1	12	PASI-A
		EPA 7470A	TMM	1	PASI-A
		SM 2320B-2011	SMS	2	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 9056A	JCM	3	PASI-A

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SAMPLE ANALYTE COUNT

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778981

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
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PASI-A = Pace Analytical Services - Asheville

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778981

Sample: ARK-BC-0.3	Lab ID: 92778981001	Collected: 02/10/25 10:29	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 18:59	7440-42-8	
Calcium	9.2	mg/L	0.10	1	02/13/25 02:30	02/19/25 18:59	7440-70-2	
Magnesium	4.2	mg/L	0.10	1	02/13/25 02:30	02/19/25 18:59	7439-95-4	
Potassium	ND	mg/L	5.0	1	02/13/25 02:30	02/19/25 18:59	7440-09-7	
Sodium	9.1	mg/L	5.0	1	02/13/25 02:30	02/19/25 18:59	7440-23-5	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Antimony	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:04	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:04	7440-38-2	
Barium	0.039	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:04	7440-39-3	
Beryllium	ND	mg/L	0.00010	1	02/13/25 02:30	02/28/25 23:04	7440-41-7	
Cadmium	ND	mg/L	0.00010	1	02/13/25 02:30	02/28/25 23:04	7440-43-9	
Chromium	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:04	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:04	7440-48-4	
Lead	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:04	7439-92-1	
Lithium	ND	mg/L	0.0025	1	02/13/25 02:30	02/28/25 23:04	7439-93-2	L5
Molybdenum	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:04	7439-98-7	
Selenium	ND	mg/L	0.0020	1	02/13/25 02:30	02/28/25 23:04	7782-49-2	
Thallium	ND	mg/L	0.00020	1	02/13/25 02:30	02/28/25 23:04	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	1	02/14/25 17:45	02/15/25 17:07	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	40.5	mg/L	5.0	1		02/13/25 16:27		
Alkalinity, Total as CaCO ₃	40.5	mg/L	5.0	1		02/13/25 16:27		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Asheville								
Total Dissolved Solids	89.0	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 11:06	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/12/25 11:06	16984-48-8	
Sulfate	6.4	mg/L	1.0	1		02/12/25 11:06	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778981

Sample: ARK-BC-0.1	Lab ID: 92778981002	Collected: 02/10/25 10:48	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 19:02	7440-42-8	
Calcium	9.3	mg/L	0.10	1	02/13/25 02:30	02/19/25 19:02	7440-70-2	
Magnesium	4.2	mg/L	0.10	1	02/13/25 02:30	02/19/25 19:02	7439-95-4	
Potassium	ND	mg/L	5.0	1	02/13/25 02:30	02/19/25 19:02	7440-09-7	
Sodium	9.2	mg/L	5.0	1	02/13/25 02:30	02/19/25 19:02	7440-23-5	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Antimony	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:08	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:08	7440-38-2	
Barium	0.037	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:08	7440-39-3	
Beryllium	ND	mg/L	0.00010	1	02/13/25 02:30	02/28/25 23:08	7440-41-7	
Cadmium	ND	mg/L	0.00010	1	02/13/25 02:30	02/28/25 23:08	7440-43-9	
Chromium	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:08	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:08	7440-48-4	
Lead	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:08	7439-92-1	
Lithium	ND	mg/L	0.0025	1	02/13/25 02:30	02/28/25 23:08	7439-93-2	L5
Molybdenum	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:08	7439-98-7	
Selenium	ND	mg/L	0.0020	1	02/13/25 02:30	02/28/25 23:08	7782-49-2	
Thallium	ND	mg/L	0.00020	1	02/13/25 02:30	02/28/25 23:08	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	1	02/14/25 17:45	02/15/25 17:09	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	41.1	mg/L	5.0	1		02/13/25 16:41		
Alkalinity, Total as CaCO ₃	41.1	mg/L	5.0	1		02/13/25 16:41		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Asheville								
Total Dissolved Solids	88.0	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 11:21	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/12/25 11:21	16984-48-8	
Sulfate	6.5	mg/L	1.0	1		02/12/25 11:21	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778981

Sample: ARK-OR-0.8	Lab ID: 92778981003	Collected: 02/11/25 09:20	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 19:06	7440-42-8	
Calcium	7.1	mg/L	0.10	1	02/13/25 02:30	02/19/25 19:06	7440-70-2	
Magnesium	2.1	mg/L	0.10	1	02/13/25 02:30	02/19/25 19:06	7439-95-4	
Potassium	ND	mg/L	5.0	1	02/13/25 02:30	02/19/25 19:06	7440-09-7	
Sodium	10.8	mg/L	5.0	1	02/13/25 02:30	02/19/25 19:06	7440-23-5	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Antimony	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:12	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:12	7440-38-2	
Barium	0.031	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:12	7440-39-3	
Beryllium	ND	mg/L	0.00010	1	02/13/25 02:30	02/28/25 23:12	7440-41-7	
Cadmium	ND	mg/L	0.00010	1	02/13/25 02:30	02/28/25 23:12	7440-43-9	
Chromium	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:12	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:12	7440-48-4	
Lead	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:12	7439-92-1	
Lithium	ND	mg/L	0.0025	1	02/13/25 02:30	02/28/25 23:12	7439-93-2	L5
Molybdenum	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:12	7439-98-7	
Selenium	ND	mg/L	0.0020	1	02/13/25 02:30	02/28/25 23:12	7782-49-2	
Thallium	ND	mg/L	0.00020	1	02/13/25 02:30	02/28/25 23:12	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	1	02/14/25 17:45	02/15/25 17:11	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	26.4	mg/L	5.0	1		02/13/25 16:47		
Alkalinity, Total as CaCO ₃	26.4	mg/L	5.0	1		02/13/25 16:47		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Asheville								
Total Dissolved Solids	75.0	mg/L	25.0	1		02/14/25 14:19		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	10.5	mg/L	1.0	1		02/12/25 11:36	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/12/25 11:36	16984-48-8	
Sulfate	6.9	mg/L	1.0	1		02/12/25 11:36	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778981

Sample: ARK-OR-0.1	Lab ID: 92778981004	Collected: 02/11/25 10:30	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 19:10	7440-42-8	
Calcium	7.2	mg/L	0.10	1	02/13/25 02:30	02/19/25 19:10	7440-70-2	
Magnesium	2.2	mg/L	0.10	1	02/13/25 02:30	02/19/25 19:10	7439-95-4	
Potassium	ND	mg/L	5.0	1	02/13/25 02:30	02/19/25 19:10	7440-09-7	
Sodium	10.9	mg/L	5.0	1	02/13/25 02:30	02/19/25 19:10	7440-23-5	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Antimony	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:16	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:16	7440-38-2	
Barium	0.030	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:16	7440-39-3	
Beryllium	ND	mg/L	0.00010	1	02/13/25 02:30	02/28/25 23:16	7440-41-7	
Cadmium	ND	mg/L	0.00010	1	02/13/25 02:30	02/28/25 23:16	7440-43-9	
Chromium	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:16	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:16	7440-48-4	
Lead	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:16	7439-92-1	
Lithium	ND	mg/L	0.0025	1	02/13/25 02:30	02/28/25 23:16	7439-93-2	L5
Molybdenum	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:16	7439-98-7	
Selenium	ND	mg/L	0.0020	1	02/13/25 02:30	02/28/25 23:16	7782-49-2	
Thallium	ND	mg/L	0.00020	1	02/13/25 02:30	02/28/25 23:16	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	1	02/14/25 17:45	02/15/25 17:18	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	26.7	mg/L	5.0	1		02/13/25 16:53		
Alkalinity, Total as CaCO ₃	26.7	mg/L	5.0	1		02/13/25 16:53		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Asheville								
Total Dissolved Solids	65.0	mg/L	25.0	1		02/14/25 14:19		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	10.5	mg/L	1.0	1		02/12/25 11:51	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/12/25 11:51	16984-48-8	
Sulfate	6.9	mg/L	1.0	1		02/12/25 11:51	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778981

Sample: ARK-OR-0.3	Lab ID: 92778981005	Collected: 02/11/25 10:05	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 19:13	7440-42-8	
Calcium	7.0	mg/L	0.10	1	02/13/25 02:30	02/19/25 19:13	7440-70-2	
Magnesium	2.2	mg/L	0.10	1	02/13/25 02:30	02/19/25 19:13	7439-95-4	
Potassium	ND	mg/L	5.0	1	02/13/25 02:30	02/19/25 19:13	7440-09-7	
Sodium	10.7	mg/L	5.0	1	02/13/25 02:30	02/19/25 19:13	7440-23-5	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Antimony	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:27	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:27	7440-38-2	
Barium	0.031	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:27	7440-39-3	
Beryllium	ND	mg/L	0.00010	1	02/13/25 02:30	02/28/25 23:27	7440-41-7	
Cadmium	ND	mg/L	0.00010	1	02/13/25 02:30	02/28/25 23:27	7440-43-9	
Chromium	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:27	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:27	7440-48-4	
Lead	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:27	7439-92-1	
Lithium	ND	mg/L	0.0025	1	02/13/25 02:30	02/28/25 23:27	7439-93-2	L5
Molybdenum	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:27	7439-98-7	
Selenium	ND	mg/L	0.0020	1	02/13/25 02:30	02/28/25 23:27	7782-49-2	
Thallium	ND	mg/L	0.00020	1	02/13/25 02:30	02/28/25 23:27	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	1	02/14/25 17:45	02/15/25 17:20	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO3)	26.4	mg/L	5.0	1		02/13/25 16:58		
Alkalinity, Total as CaCO3	26.4	mg/L	5.0	1		02/13/25 16:58		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Asheville								
Total Dissolved Solids	69.0	mg/L	25.0	1		02/14/25 14:19		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	10.4	mg/L	1.0	1		02/12/25 12:55	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/12/25 12:55	16984-48-8	
Sulfate	6.8	mg/L	1.0	1		02/12/25 12:55	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778981

Sample: ARK-OR+0.25	Lab ID: 92778981006	Collected: 02/11/25 10:50	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 19:17	7440-42-8	
Calcium	7.0	mg/L	0.10	1	02/13/25 02:30	02/19/25 19:17	7440-70-2	
Magnesium	2.1	mg/L	0.10	1	02/13/25 02:30	02/19/25 19:17	7439-95-4	
Potassium	ND	mg/L	5.0	1	02/13/25 02:30	02/19/25 19:17	7440-09-7	
Sodium	10.8	mg/L	5.0	1	02/13/25 02:30	02/19/25 19:17	7440-23-5	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Antimony	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:30	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:30	7440-38-2	
Barium	0.031	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:30	7440-39-3	
Beryllium	ND	mg/L	0.00010	1	02/13/25 02:30	02/28/25 23:30	7440-41-7	
Cadmium	ND	mg/L	0.00010	1	02/13/25 02:30	02/28/25 23:30	7440-43-9	
Chromium	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:30	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:30	7440-48-4	
Lead	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:30	7439-92-1	
Lithium	ND	mg/L	0.0025	1	02/13/25 02:30	02/28/25 23:30	7439-93-2	L5
Molybdenum	ND	mg/L	0.0010	1	02/13/25 02:30	02/28/25 23:30	7439-98-7	
Selenium	ND	mg/L	0.0020	1	02/13/25 02:30	02/28/25 23:30	7782-49-2	
Thallium	ND	mg/L	0.00020	1	02/13/25 02:30	02/28/25 23:30	7440-28-0	
7470 Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	1	02/14/25 17:45	02/15/25 17:22	7439-97-6	
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	26.3	mg/L	5.0	1		02/13/25 17:03		
Alkalinity, Total as CaCO ₃	26.3	mg/L	5.0	1		02/13/25 17:03		
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Asheville								
Total Dissolved Solids	64.0	mg/L	25.0	1		02/14/25 14:20		
9056 IC anions 28 Days								
Analytical Method: EPA 9056A								
Pace Analytical Services - Asheville								
Chloride	10.5	mg/L	1.0	1		02/12/25 13:10	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/12/25 13:10	16984-48-8	
Sulfate	6.9	mg/L	1.0	1		02/12/25 13:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778981

QC Batch:	916335	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92778981001, 92778981002, 92778981003, 92778981004, 92778981005, 92778981006

METHOD BLANK: 4709423 Matrix: Water
 Associated Lab Samples: 92778981001, 92778981002, 92778981003, 92778981004, 92778981005, 92778981006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	02/15/25 16:27	

LABORATORY CONTROL SAMPLE: 4709424

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4709425 4709426

Parameter	Units	4709425		4709426		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0026	100	103	75-125	3	25	

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778981

QC Batch: 915862 Analysis Method: EPA 6010D
 QC Batch Method: EPA 3010A Analysis Description: 6010 MET
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92778981001, 92778981002, 92778981003, 92778981004, 92778981005, 92778981006

METHOD BLANK: 4707271 Matrix: Water
 Associated Lab Samples: 92778981001, 92778981002, 92778981003, 92778981004, 92778981005, 92778981006

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	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		92778963003	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
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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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778981

QC Batch:	915863	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3010A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92778981001, 92778981002, 92778981003, 92778981004, 92778981005, 92778981006

METHOD BLANK: 4707275 Matrix: Water

Associated Lab Samples: 92778981001, 92778981002, 92778981003, 92778981004, 92778981005, 92778981006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	02/28/25 22:02	
Arsenic	mg/L	ND	0.0010	02/28/25 22:02	
Barium	mg/L	ND	0.0010	02/28/25 22:02	
Beryllium	mg/L	ND	0.00010	02/28/25 22:02	
Cadmium	mg/L	ND	0.00010	02/28/25 22:02	
Chromium	mg/L	ND	0.0010	02/28/25 22:02	
Cobalt	mg/L	ND	0.0010	02/28/25 22:02	
Lead	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	
Selenium	mg/L	ND	0.0020	02/28/25 22:02	
Thallium	mg/L	ND	0.00020	02/28/25 22:02	

LABORATORY CONTROL SAMPLE: 4707276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.05	0.057	113	80-120	
Arsenic	mg/L	0.05	0.057	115	80-120	
Barium	mg/L	0.05	0.059	119	80-120	
Beryllium	mg/L	0.05	0.059	118	80-120	
Cadmium	mg/L	0.05	0.059	118	80-120	
Chromium	mg/L	0.05	0.060	120	80-120	
Cobalt	mg/L	0.05	0.060	120	80-120	
Lead	mg/L	0.05	0.059	117	80-120	
Lithium	mg/L	0.05	0.061	121	80-120 L3	
Molybdenum	mg/L	0.05	0.057	115	80-120	
Selenium	mg/L	0.05	0.060	120	80-120	
Thallium	mg/L	0.025	0.029	114	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4707277 4707278

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92778963003 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Antimony	mg/L	ND	0.05	0.05	0.057	0.057	113	114	75-125	0	20	
Arsenic	mg/L	ND	0.05	0.05	0.058	0.059	116	118	75-125	1	20	
Barium	mg/L	0.035	0.05	0.05	0.094	0.098	117	125	75-125	4	20	
Beryllium	mg/L	ND	0.05	0.05	0.058	0.059	116	117	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778981

Parameter	Units	4707277		4707278		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92778963003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Cadmium	mg/L	ND	0.05	0.05	0.060	0.061	121	122	75-125	1	20		
Chromium	mg/L	ND	0.05	0.05	0.060	0.062	119	123	75-125	3	20		
Cobalt	mg/L	0.0096	0.05	0.05	0.070	0.075	121	132	75-125	8	20	M1	
Lead	mg/L	ND	0.05	0.05	0.063	0.062	125	124	75-125	1	20		
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		
Selenium	mg/L	ND	0.05	0.05	0.058	0.058	116	115	75-125	1	20		
Thallium	mg/L	ND	0.025	0.025	0.031	0.031	124	123	75-125	1	20		

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778981

QC Batch: 915793 Analysis Method: SM 2320B-2011
 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92778981001, 92778981002, 92778981003, 92778981004, 92778981005, 92778981006

METHOD BLANK: 4706798 Matrix: Water
 Associated Lab Samples: 92778981001, 92778981002, 92778981003, 92778981004, 92778981005, 92778981006

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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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778981

QC Batch: 916188

Analysis Method: SM 2540C-2015

QC Batch Method: SM 2540C-2015

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92778981001, 92778981002

METHOD BLANK: 4708954

Matrix: Water

Associated Lab Samples: 92778981001, 92778981002

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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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond
 Pace Project No.: 92778981

QC Batch: 916197 Analysis Method: SM 2540C-2015
 QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92778981003, 92778981004, 92778981005, 92778981006

METHOD BLANK: 4708980 Matrix: Water
 Associated Lab Samples: 92778981003, 92778981004, 92778981005, 92778981006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	02/14/25 14:19	

LABORATORY CONTROL SAMPLE: 4708981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	250	100	90-110	

SAMPLE DUPLICATE: 4708982

Parameter	Units	92778981004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	65.0	69.0	6	25	

SAMPLE DUPLICATE: 4708983

Parameter	Units	92779079001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	858	874	2	25	

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QUALITY CONTROL DATA

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778981

QC Batch:	915460	Analysis Method:	EPA 9056A
QC Batch Method:	EPA 9056A	Analysis Description:	9056 IC anions 28 Days
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92778981001, 92778981002, 92778981003, 92778981004, 92778981005, 92778981006

METHOD BLANK: 4705211 Matrix: Water
 Associated Lab Samples: 92778981001, 92778981002, 92778981003, 92778981004, 92778981005, 92778981006

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		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result							
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		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result							
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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QUALIFIERS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778981

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778981

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92778981001	ARK-BC-0.3	EPA 3010A	915862	EPA 6010D	915871
92778981002	ARK-BC-0.1	EPA 3010A	915862	EPA 6010D	915871
92778981003	ARK-OR-0.8	EPA 3010A	915862	EPA 6010D	915871
92778981004	ARK-OR-0.1	EPA 3010A	915862	EPA 6010D	915871
92778981005	ARK-OR-0.3	EPA 3010A	915862	EPA 6010D	915871
92778981006	ARK-OR+0.25	EPA 3010A	915862	EPA 6010D	915871
92778981001	ARK-BC-0.3	EPA 3010A	915863	EPA 6020B	915872
92778981002	ARK-BC-0.1	EPA 3010A	915863	EPA 6020B	915872
92778981003	ARK-OR-0.8	EPA 3010A	915863	EPA 6020B	915872
92778981004	ARK-OR-0.1	EPA 3010A	915863	EPA 6020B	915872
92778981005	ARK-OR-0.3	EPA 3010A	915863	EPA 6020B	915872
92778981006	ARK-OR+0.25	EPA 3010A	915863	EPA 6020B	915872
92778981001	ARK-BC-0.3	EPA 7470A	916335	EPA 7470A	916527
92778981002	ARK-BC-0.1	EPA 7470A	916335	EPA 7470A	916527
92778981003	ARK-OR-0.8	EPA 7470A	916335	EPA 7470A	916527
92778981004	ARK-OR-0.1	EPA 7470A	916335	EPA 7470A	916527
92778981005	ARK-OR-0.3	EPA 7470A	916335	EPA 7470A	916527
92778981006	ARK-OR+0.25	EPA 7470A	916335	EPA 7470A	916527
92778981001	ARK-BC-0.3	SM 2320B-2011	915793		
92778981002	ARK-BC-0.1	SM 2320B-2011	915793		
92778981003	ARK-OR-0.8	SM 2320B-2011	915793		
92778981004	ARK-OR-0.1	SM 2320B-2011	915793		
92778981005	ARK-OR-0.3	SM 2320B-2011	915793		
92778981006	ARK-OR+0.25	SM 2320B-2011	915793		
92778981001	ARK-BC-0.3	SM 2540C-2015	916188		
92778981002	ARK-BC-0.1	SM 2540C-2015	916188		
92778981003	ARK-OR-0.8	SM 2540C-2015	916197		
92778981004	ARK-OR-0.1	SM 2540C-2015	916197		
92778981005	ARK-OR-0.3	SM 2540C-2015	916197		
92778981006	ARK-OR+0.25	SM 2540C-2015	916197		
92778981001	ARK-BC-0.3	EPA 9056A	915460		
92778981002	ARK-BC-0.1	EPA 9056A	915460		
92778981003	ARK-OR-0.8	EPA 9056A	915460		
92778981004	ARK-OR-0.1	EPA 9056A	915460		
92778981005	ARK-OR-0.3	EPA 9056A	915460		
92778981006	ARK-OR+0.25	EPA 9056A	915460		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Latin Label Here

MO# : 92778981



92778981

Company Name: ARCADIS - Atlanta
 Street Address: 2839 Paces Ferry Rd, Atlanta, GA 30339

Contact/Report To: Priya Jacob
 Phone #: (618)790-6528
 E-Mail: priya.jacob@arcadis.com

Customer Project #: Plant Arkwright-CCR Ash Pond

Accounts Payable
 Invoice To: georgiapowerinvoices@southernco.com
 Invoice E-Mail: GPC82474-0003
 Purchase Order # (if applicable): GPC82474-0003

Site Collection Info/Facility ID (as applicable): AP-1

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET

County / State origin of sample(s): Georgia

Data Deliverables: [] Level II [] Level III [] Level IV

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No

[] EQUIS

Rush (Pre-approval required): [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other

[] Other

Date Results Requested: 5 Day 74f

* 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), Biossavy (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Field Filtered (if applicable): [] Yes [] No

Customer Sample ID

Matrix * Comp / Grab Composite Start Time Collected or Composite End Time # Res. Chlorine Units

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Time	Collected or Composite End Time	# Res. Chlorine Units	App. IV Metals + Hg	App. III Metals - B, Ca	Metals - K, Mg, Na	Alkalinity (Total/BiCarb)	Cl, F, SO4	TDS	Radium 226, 228 + Total Radium	Identify Container Preservative Type***	Analysis Requested	Preservation non-conformance identified for sample.
ARK-BC-0.3	WS	G	2/16/25	1629	5	X	X	X	X	X	X	X			
ARK-BC-0.1	WS	G	2/10/25	1648	5	X	X	X	X	X	X	X			
ARK-OR-0.8	WS	G	2/11/25	0920	5	X	X	X	X	X	X	X			
ARK-OR-0.1	WS	G	2/11/25	1630	5	X	X	X	X	X	X	X			
ARK-OR-0.3	WS	G	2/11/25	1665	5	X	X	X	X	X	X	X			
ARK-OR-0.25	WS	G	2/11/25	1050	5	X	X	X	X	X	X	X			

Additional Instructions from Pace*:
 ARK-CSURF-ASSMNT-202551

Collected By: (Printed Name) Signature: [Signature]

Received by/Company: (Signature) [Signature]

Relinquished by/Company: (Signature) [Signature]

Date/Time: 2/11/25 1402

Received by/Company: (Signature) [Signature]

Relinquished by/Company: (Signature) [Signature]

Date/Time: [Blank]

Received by/Company: (Signature) [Signature]

Relinquished by/Company: (Signature) [Signature]

Date/Time: [Blank]

Received by/Company: (Signature) [Signature]



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: Arcadia

Project

WO#: 92778981

PM: MP

Due Date: 02/19/25

CLIENT: GA-ArcadAt1

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: w	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

EVENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Effective Date: 05/24/2024

Project **WO#: 92778981**
PM: MP Due Date: 02/19/25
CLIENT: GA-ArcadAtI

*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 Atlanta Kernersville

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-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
CC																													
1	/		2		/	/	/	/		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/		2		/	/	/	/		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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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.



March 06, 2025

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778989

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 - Greensburg

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778989

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: Plant Arkwright-CCR Ash Pond
Pace Project No.: 92778989

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92778989001	ARK-BC-0.3	Water	02/10/25 10:29	02/11/25 14:02
92778989002	ARK-BC-0.1	Water	02/10/25 10:48	02/11/25 14:02
92778989003	ARK-OR-0.8	Water	02/11/25 09:20	02/11/25 14:02
92778989004	ARK-OR-0.1	Water	02/11/25 10:30	02/11/25 14:02
92778989005	ARK-OR-0.3	Water	02/11/25 10:05	02/11/25 14:02
92778989006	ARK-OR+0.25	Water	02/11/25 10:50	02/11/25 14:02

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SAMPLE ANALYTE COUNT

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778989

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92778989001	ARK-BC-0.3	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92778989002	ARK-BC-0.1	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92778989003	ARK-OR-0.8	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92778989004	ARK-OR-0.1	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92778989005	ARK-OR-0.3	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92778989006	ARK-OR+0.25	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778989

Sample: ARK-BC-0.3 **Lab ID: 92778989001** Collected: 02/10/25 10:29 Received: 02/11/25 14:02 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.277U ± 0.695 (1.24) C:NA T:82%	pCi/L	03/03/25 14:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.0262U ± 0.306 (0.712) C:79% T:78%	pCi/L	02/25/25 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.303U ± 1.00 (1.95)	pCi/L	03/04/25 09:40	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778989

Sample: ARK-BC-0.1 **Lab ID: 92778989002** Collected: 02/10/25 10:48 Received: 02/11/25 14:02 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	-0.382U ± 0.399 (0.930) C:NA T:91%	pCi/L	03/03/25 14:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.242U ± 0.327 (0.697) C:80% T:79%	pCi/L	02/25/25 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.242U ± 0.726 (1.63)	pCi/L	03/04/25 09:40	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778989

Sample: ARK-OR-0.8 **Lab ID: 92778989003** Collected: 02/11/25 09:20 Received: 02/11/25 14:02 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.494U ± 0.701 (1.19) C:NA T:86%	pCi/L	03/03/25 14:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.887U ± 0.516 (0.972) C:79% T:82%	pCi/L	02/25/25 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.38U ± 1.22 (2.16)	pCi/L	03/04/25 09:40	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778989

Sample: ARK-OR-0.1 **Lab ID: 92778989004** Collected: 02/11/25 10:30 Received: 02/11/25 14:02 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.0514U ± 0.523 (1.00) C:NA T:85%	pCi/L	03/03/25 14:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.749U ± 0.443 (0.834) C:81% T:87%	pCi/L	02/25/25 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.800U ± 0.966 (1.83)	pCi/L	03/04/25 09:40	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778989

Sample: ARK-OR-0.3	Lab ID: 92778989005	Collected: 02/11/25 10:05	Received: 02/11/25 14:02	Matrix: Water
PWS:	Site ID:	Sample Type:		

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.160U ± 0.456 (0.967) C:NA T:83%	pCi/L	03/03/25 15:04	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.655U ± 0.496 (0.985) C:82% T:75%	pCi/L	02/25/25 11:50	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.655U ± 0.952 (1.95)	pCi/L	03/04/25 09:40	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778989

Sample: ARK-OR+0.25 **Lab ID: 92778989006** Collected: 02/11/25 10:50 Received: 02/11/25 14:02 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.372U ± 0.522 (0.884) C:NA T:88%	pCi/L	03/03/25 15:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.740U ± 0.536 (1.05) C:78% T:75%	pCi/L	02/25/25 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.11U ± 1.06 (1.93)	pCi/L	03/04/25 09:40	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778989

QC Batch: 726950

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92778989001, 92778989002, 92778989003, 92778989004, 92778989005, 92778989006

METHOD BLANK: 3538837

Matrix: Water

Associated Lab Samples: 92778989001, 92778989002, 92778989003, 92778989004, 92778989005, 92778989006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.864 ± 0.659 (1.29) C:46% T:79%	pCi/L	02/25/25 14:11	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778989

QC Batch: 726949

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92778989001, 92778989002, 92778989003, 92778989004, 92778989005, 92778989006

METHOD BLANK: 3538834

Matrix: Water

Associated Lab Samples: 92778989001, 92778989002, 92778989003, 92778989004, 92778989005, 92778989006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0423 ± 0.342 (0.705) C:NA T:89%	pCi/L	03/03/25 14:36	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778989

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Arkwright-CCR Ash Pond

Pace Project No.: 92778989

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92778989001	ARK-BC-0.3	EPA 903.1	726949		
92778989002	ARK-BC-0.1	EPA 903.1	726949		
92778989003	ARK-OR-0.8	EPA 903.1	726949		
92778989004	ARK-OR-0.1	EPA 903.1	726949		
92778989005	ARK-OR-0.3	EPA 903.1	726949		
92778989006	ARK-OR+0.25	EPA 903.1	726949		
92778989001	ARK-BC-0.3	EPA 904.0	726950		
92778989002	ARK-BC-0.1	EPA 904.0	726950		
92778989003	ARK-OR-0.8	EPA 904.0	726950		
92778989004	ARK-OR-0.1	EPA 904.0	726950		
92778989005	ARK-OR-0.3	EPA 904.0	726950		
92778989006	ARK-OR+0.25	EPA 904.0	726950		
92778989001	ARK-BC-0.3	Total Radium Calculation	730392		
92778989002	ARK-BC-0.1	Total Radium Calculation	730392		
92778989003	ARK-OR-0.8	Total Radium Calculation	730392		
92778989004	ARK-OR-0.1	Total Radium Calculation	730392		
92778989005	ARK-OR-0.3	Total Radium Calculation	730392		
92778989006	ARK-OR+0.25	Total Radium Calculation	730392		

REPORT OF LABORATORY ANALYSIS

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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: Arcadia

Project #: WO#: 92778989
PM: MP Due Date: 02/19/25
CLIENT: GA-ArcadAtI

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other:

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		9.
-Includes Date/Time/ID/Analysis Matrix:	<i>W</i>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

Field Data Required? Yes No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

SENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Effective Date: 05/24/2024

WO#: 92778989

Pro: MP Due Date: 02/19/25 CLIENT: GA-ArcadAt1

*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 [] Atlanta [] Kernersville []

Client Profile/EZ (Circle one) Notes

Main data table with columns for Item#, CC, and various sample types (BP4U-125 mL Plastic Unpreserved (N/A) (Cl-), etc.) and rows 1-12.

pH Adjustment Log for Preserved Samples

Table with 7 columns: 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.

B.4 Data Quality Evaluation



DATA USABILITY SUMMARY

Steven Elliott (Stantec) reviewed two data packages from GEL Laboratories (GEL) for the analysis of water samples collected August 19, 2024, at the Georgia Power Arkwright Plant AP1 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 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 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 and 3b 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 with the following exception:

SDG 682086

- Radium-226 was detected in the method blank for batch 2660996 (0.87 pCi/L) at a concentration below the laboratory Reporting Limit (RL). Associated detected sample results reported with results less than 10 times the blank concentration have been qualified as estimated with a high bias (J+).

Field Blanks. Field blanks (ARK-AP1-EB-01, ARK-AP1-FB-01, ARK-AP1-EB-02, and ARK-AP1-FB-02) were analyzed for the full suite of sample analyses and all analytes were not detected with the following exceptions:

SDG 682084

- TDS was detected in the blanks ARK-AP1-EB-01 and ARK-AP1-FB-02 at concentrations 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.

SDG 682086

- Radium-228 was detected in the blanks ARK-AP1-EB-01 (1.7 pCi/L) at a concentration below the laboratory Reporting Limit (RL). Associated sample results reported with results less than 10 times the blank concentration have been qualified as estimated with a high bias (J+).
- Radium-226 was detected in the blanks ARK-AP1-EB-01 (0.468 pCi/L) at a concentration below the laboratory Reporting Limit (RL). Associated sample results reported with results less than 10 times the blank concentration have been qualified as estimated with a high bias (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.

SDG 682084

- Chloride had a high MS percent recovery in sample ARK-AP1PZ-10 and has been qualified as estimated (J).
- Beryllium had high MS and PS (post spike) percent recoveries in sample ARK-AP1GWA-1 and has been qualified as estimated (J).

Laboratory Duplicates

Appropriate analytical duplicates were analyzed and RPDs were within the laboratory acceptance criteria.

Field Precision

Two sets of field duplicate samples were collected for this sampling event (see Table 3a and 3b 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

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than two times the RL are also considered acceptable (qualified “A*”). All field duplicate precision was considered acceptable with the following exception:

SDG 682084

- Results for TDS in the field duplicate pair ARK-AP1PZ-11/ ARK-AP1-FD-02 were greater than five times the RL and the RPD was greater than 25%. TDS has been qualified as estimated (J) in these samples.

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-AP1GWA-1	682084001	682084	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/19/2024
ARK-AP1GWA-2	682084002	682084	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/19/2024
ARK-AP1PZ-1	682084003	682084	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/19/2024
ARK-AP1PZ-2	682084004	682084	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/19/2024
ARK-AP1PZ-3	682084005	682084	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/19/2024
ARK-AP1PZ-4	682084006	682084	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/19/2024
ARK-AP1PZ-5	682084007	682084	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/19/2024
ARK-AP1PZ-7	682084008	682084	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/19/2024
ARK-AP1PZ-8	682084009	682084	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/19/2024
ARK-AP1PZ-9	682084010	682084	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/19/2024
ARK-AP1PZ-10	682084011	682084	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/19/2024
ARK-AP1PZ-11	682084012	682084	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/19/2024
ARK-AP2-EB-01	682084013	682084	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/19/2024

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Field Identification	Laboratory Identification	SDG	Analyses	Sample Date
ARK-AP2-FD-01	682084014	682084	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/19/2024
ARK-AP2-FB-01	682084015	682084	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/19/2024
ARK-AP2-EB-02	682084016	682084	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/19/2024
ARK-AP2-FD-02	682084017	682084	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/19/2024
ARK-AP2-FB-02	682084018	682084	6020B, 7470A, 300, 2540C, 353.2, 2320B	08/19/2024
ARK-AP1GWA-1	682086001	682086	903.1, 904	08/19/2024
ARK-AP1GWA-2	682086002	682086	903.1, 904	08/19/2024
ARK-AP1PZ-1	682086003	682086	903.1, 904	08/19/2024
ARK-AP1PZ-2	682086004	682086	903.1, 904	08/19/2024
ARK-AP1PZ-3	682086005	682086	903.1, 904	08/19/2024
ARK-AP1PZ-4	682086006	682086	903.1, 904	08/19/2024
ARK-AP1PZ-5	682086007	682086	903.1, 904	08/19/2024
ARK-AP1PZ-7	682086008	682086	903.1, 904	08/19/2024
ARK-AP1PZ-8	682086009	682086	903.1, 904	08/19/2024
ARK-AP1PZ-9	682086010	682086	903.1, 904	08/19/2024
ARK-AP1PZ-10	682086011	682086	903.1, 904	08/19/2024
ARK-AP1PZ-11	682086012	682086	903.1, 904	08/19/2024
ARK-AP2-EB-01	682086013	682086	903.1, 904	08/19/2024
ARK-AP2-FD-01	682086014	682086	903.1, 904	08/19/2024
ARK-AP2-FB-01	682086015	682086	903.1, 904	08/19/2024
ARK-AP2-EB-02	682086016	682086	903.1, 904	08/19/2024
ARK-AP2-FD-02	682086017	682086	903.1, 904	08/19/2024
ARK-AP2-FB-02	682086018	682086	903.1, 904	08/19/2024

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Table 2 – Qualified Analytical Data

Field Identification	Analyte	Qualification / Code	Reason for Qualification
ARK-AP1PZ-11	TDS	J / FD1	High FD RPD
ARK-AP1-FD-02	TDS	J / FD1	High FD RPD
ARK-AP1GWA-1	Radium 226	J+ / BLL, BFL	Detected in MB & FB
ARK-AP1GWA-2	Radium 226	J+ / BLL, BFL	Detected in MB & FB
ARK-AP1PZ-1	Radium 226	J+ / BLL, BFL	Detected in MB & FB
ARK-AP1PZ-2	Radium 226	J+ / BLL, BFL	Detected in MB & FB
ARK-AP1PZ-3	Radium 226	J+ / BLL, BFL	Detected in MB & FB
ARK-AP1PZ-5	Radium 226	J+ / BLL, BFL	Detected in MB & FB
ARK-AP1PZ-7	Radium 226	J+ / BLL, BFL	Detected in MB & FB
ARK-AP1PZ-8	Radium 226	J+ / BLL, BFL	Detected in MB & FB
ARK-AP1PZ-9	Radium 226	J+ / BLL, BFL	Detected in MB & FB
ARK-AP1PZ-9	Radium 228	J+ / BFL	Detected in FB
ARK-AP1PZ-10	Radium 226	J+ / BLL, BFL	Detected in MB & FB
ARK-AP1PZ-11	Radium 226	J+ / BLL, BFL	Detected in MB & FB
ARK-AP1PZ-10	Chloride	J / MS1	High MS %R
ARK-AP1GWA-1	Beryllium	J / MS1	High MS %R

BFL – Blank Field Low – detected in the field blank (FB) below the RL
 BLL – Blank Lab Low – detected in the laboratory blank (MB) below the RL
 FD1 - Field duplicate had high RPD
 J – estimated result
 J+ – estimated data with a high bias
 MS1 – matrix spike had high percent recovery

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Table 3a – Field Precision

Field Identification	Analyte	Sample Result (mg/L)	Duplicate Result (mg/L)	RPD ^a	Qualified
ARK-AP1GWA-2/ ARK-AP1-FD-01	Chloride	2.13	2.15	0.9%	A
	Fluoride	0.0788 J	0.0706 J	<5*RL, <2*RL	A*
	Sulfate	0.982	1.09	<5*RL, <2*RL	A*
	Boron	0.0505	0.0483	<5*RL, <2*RL	A*
	Barium	0.0403	0.0396	1.8%	A
	Chromium	0.00345 J	0.00324 J	<5*RL, <2*RL	A*
	Cobalt	0.00177	0.00180	<5*RL, <2*RL	A*
	Calcium	6.58	6.65	1.1%	A
	TDS	57.0	62.0	8.4%	A
	Radium 226	2.37	0.431 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.

Table 3b – Field Precision

Field Identification	Analyte	Sample Result (mg/L)	Duplicate Result (mg/L)	RPD ^a	Qualified
ARK-AP1PZ-11/ ARK-AP1-FD-02	Chloride	1.33	1.32	0.8%	A
	Fluoride	0.106	0.105	<5*RL, <2*RL	A*
	Sulfate	42.3	43.0	1.6%	A
	Boron	0.152	0.159	<5*RL, <2*RL	A*
	Barium	0.0194	0.0198	2.0%	A
	Calcium	24.7	25.1	1.6%	A
	Molybdenum	0.000492 J	0.000444 J	<5*RL, <2*RL	A*
	TDS	515	200	88%	J
	Radium 226	0.314 J	1.29	<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.

DATA USABILITY SUMMARY

Steven Elliott (Stantec) reviewed two data packages from GEL Laboratories (GEL) for the analysis of water samples collected February 3 & 4, 2025, at the Georgia Power Arkwright Plant AP1 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 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 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 and 3b 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 with the following exceptions.

SDG 707453

- The CRDL standard for calcium was outside the laboratory acceptance limits. Associated sample results were reported as not detected or greater than two times the CRDL so no qualification

was necessary.

Blanks

Laboratory Method Blanks. No contamination was detected in any of the laboratory method blanks with the following exception:

SDG 707453

- TDS was detected in the method blank for batch 2748244 at a concentration below the laboratory Reporting Limit (RL). Associated detected sample results reported with results less than 10 times the blank concentration have been qualified as estimated with a high bias (J+).

Field Blanks. Field blanks (ARK-AP1-EB-01, ARK-AP1-FB-01, ARK-AP1-EB-02, and ARK-AP1-FB-02) were analyzed for the full suite of sample analyses and all analytes were not detected with the following exceptions:

SDG 707453

- TDS was detected in the blanks ARK-AP1-EB-02 (2/4, 6) and ARK-AP1-FB-02 (2/3, 9) at concentrations below the laboratory Reporting Limit (RL). Associated detected 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-AP1-EB-01 (2/3, 0.0242) and ARK-AP1-FB-01 (2/4, 0.117), ARK-AP1-FB-02 (2/3, 0.0372) at concentrations above the laboratory Reporting Limit (RL) and ARK-AP1-EB-02 (2/4, 0.00963) at a concentration below the RL. Associated detected sample results less than 10 times the blank concentration have been qualified as estimated with a high bias (J+).
- Molybdenum was detected in the blanks ARK-AP1-FB-01 (2/4, 0.000296) at a concentration below the RL.

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- Radium-228 was detected in the blank ARK-AP1-FB-01 (1.99 pCi/L) at a concentration below the laboratory Reporting Limit (RL). Associated sample results reported with results less than 10 times the blank concentration have been qualified as estimated with a high bias (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

Two sets of field duplicate samples were collected for this sampling event (see Table 3a and 3b 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:

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- Results for TDS in the field duplicate pairs ARK-AP1GWA-1/ ARK-AP1-FD-01 and ARK-AP1PZ-8/ ARK-AP1-FD-02 were greater than five times the RL and the RPD was greater than 25%. TDS has been qualified as estimated (J) in these samples.

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-AP1GWA-1	707453001	707453	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/03/25 14:00
ARK-AP1GWA-2	707453002	707453	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/03/25 14:05
ARK-AP1PZ-1	707453003	707453	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/03/25 17:00
ARK-AP1PZ-2	707453004	707453	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/03/25 16:05
ARK-AP1PZ-3	707453005	707453	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 09:40
ARK-AP1PZ-4	707453006	707453	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/03/25 18:00
ARK-AP1PZ-5	707453007	707453	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/03/25 15:45
ARK-AP1PZ-7	707453008	707453	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/03/25 17:25
ARK-AP1PZ-8	707453009	707453	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 10:00
ARK-AP1PZ-9	707453010	707453	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 10:50
ARK-AP1PZ-10	707453011	707453	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/03/25 15:40

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Field Identification	Laboratory Identification	SDG	Analyses	Sample Date
ARK-AP1PZ-11	707453012	707453	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/03/25 17:30
ARK-AP1-EB-01	707453013	707453	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/03/25 17:55
ARK-AP1-EB-02	707453014	707453	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 10:00
ARK-AP1-FD-01	707453015	707453	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/03/25 12:00
ARK-AP1-FD-02	707453016	707453	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 12:00
ARK-AP1-FB-01	707453017	707453	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/04/25 10:40
ARK-AP1-FB-02	707453018	707453	6020B, 7470A, 300, 2540C, 353.2, 2320B	02/03/25 16:53
ARK-AP1GWA-1	707454001	707454	903.1, 904	02/03/25 14:00
ARK-AP1GWA-2	707454002	707454	903.1, 904	02/03/25 14:05
ARK-AP1PZ-1	707454003	707454	903.1, 904	02/03/25 17:00
ARK-AP1PZ-2	707454004	707454	903.1, 904	02/03/25 16:05
ARK-AP1PZ-3	707454005	707454	903.1, 904	02/04/25 09:40
ARK-AP1PZ-4	707454006	707454	903.1, 904	02/03/25 18:00
ARK-AP1PZ-5	707454007	707454	903.1, 904	02/03/25 15:45
ARK-AP1PZ-7	707454008	707454	903.1, 904	02/03/25 17:25
ARK-AP1PZ-8	707454009	707454	903.1, 904	02/04/25 10:00
ARK-AP1PZ-9	707454010	707454	903.1, 904	02/04/25 10:50
ARK-AP1PZ-10	707454011	707454	903.1, 904	02/03/25 15:40
ARK-AP1PZ-11	707454012	707454	903.1, 904	02/03/25 17:30
ARK-AP1-EB-01	707454013	707454	903.1, 904	02/03/25 17:55
ARK-AP1-EB-02	707454014	707454	903.1, 904	02/04/25 10:00
ARK-AP1-FD-01	707454015	707454	903.1, 904	02/03/25 12:00
ARK-AP1-FD-02	707454016	707454	903.1, 904	02/04/25 12:00
ARK-AP1-FB-01	707454017	707454	903.1, 904	02/04/25 10:40
ARK-AP1-FB-02	707454018	707454	903.1, 904	02/03/25 16:53

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Table 2 – Qualified Analytical Data

Field Identification	Analyte	Qualification / Code	Reason for Qualification
ARK-AP1-EB-02	TDS	J+ / BLL	Detected in MB
ARK-AP1PZ-9	Boron	J+ / BFH	Detected in FB
ARK-AP1-FD-01	Boron	J+ / BFH	Detected in FB
ARK-AP1GWA-1	Boron	J+ / BFH	Detected in FB
ARK-AP1GWA-2	Boron	J+ / BFH	Detected in FB
ARK-AP1PZ-11	Boron	J+ / BFH	Detected in FB
ARK-AP1PZ-2	Boron	J+ / BFH	Detected in FB
ARK-AP1GWA-2	TDS	J+ / BFL	Detected in FB
ARK-AP1PZ-3	Molybdenum	J+ / BFL	Detected in FB
ARK-AP1GWA-1	TDS	J / FD1	High FD RPD
ARK-AP1-FD-1	TDS	J / FD1	High FD RPD
ARK-AP1PZ-8	TDS	J / FD1	High FD RPD
ARK-AP1-FD-2	TDS	J / FD1	High FD RPD
ARK-AP1PZ-9	Radium 228	J+ / BFL	Detected in FB

BFL – Blank Field Low – detected in the field blank (FB) below the RL
 BFH – Blank Field High – detected in the field blank (FB) above the RL
 BLL – Blank Lab Low – detected in the laboratory blank (MB) below the RL
 FD1 - Field duplicate had high RPD
 J – estimated result
 J+ – estimated data with a high bias

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Table 3a – Field Precision

Field Identification	Analyte	Sample Result (mg/L)	Duplicate Result (mg/L)	RPD ^a	Qualified
ARK-AP1GWA-1/ ARK-AP1-FD-01	Chloride	2.16	2.20	1.8%	A
	Fluoride	0.201	0.213	<5*RL, <2*RL	A*
	Sulfate	52.5	54.4	<5*RL, <2*RL	A*
	Boron	0.104	0.111	<5*RL, <2*RL	A*
	Barium	0.0523 J	0.0502 J	<5*RL, <2*RL	A*
	Beryllium	0.00169 J	0.00165 J	<5*RL, <2*RL	A*
	Chromium	0.00393 J	0.0039 J	<5*RL, <2*RL	A*
	Cobalt	0.00472 J	0.00501 J	<5*RL, <2*RL	A*
	Lithium	0.00946 J	0.00915 J	<5*RL, <2*RL	A*
	Selenium	0.00268 J	0.00208 J	<5*RL, <2*RL	A*
	Calcium	15.5	15.6	0.6%	A
	TDS	112	148	27.7%	J
	Radium 226	0.637	0.899	<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.

Table 3b – Field Precision

Field Identification	Analyte	Sample Result (mg/L)	Duplicate Result (mg/L)	RPD ^a	Qualified
ARK-AP1PZ-8/ ARK-AP1-FD-02	Chloride	3.24	3.2	1.2%	A
	Fluoride	0.301	0.356	<5*RL, <2*RL	A*
	Sulfate	635	650	2.3%	A
	Boron	3.01	3.18	5.5%	A
	Barium	0.0349 J	0.0347 J	<5*RL, <2*RL	A*
	Cadmium	0.000363 J	0.000359 J	<5*RL, <2*RL	A*
	Cobalt	0.000796 J	0.000837 J	<5*RL, <2*RL	A*
	Lithium	0.00357 J	0.00337 J	<5*RL, <2*RL	A*
	Calcium	317	314	1.0%	A
	Molybdenum	0.812	0.718	12.3%	A
	TDS	1380	2640	62.7%	J
	Radium 226	0.282 U	0.497	<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.